



S. V. E. Society's

# Bheemanna Khandre Institute of Technology, Bhalki

(Formerly known as Rural Engineering College)

(Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi)

Bhalki-585 328 - Dist. Bidar - Karnataka

## Self Study Report (SSR)

Submitted to



# NAAC

NATIONAL ASSESMENT &  
ACCREDITATION COUNCIL

June - 2016







Inauguration of College Building  
by Dr. Shankar Dayal Sharma, President of India, 1996



Inauguration of Silver Jubilee Library Building  
by Dr. K. Balaveera Reddy, Vice Chancellor  
Visvesvaraya Technological University, Belgaum, 2006





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## **SECTION - A**

### **I. PREFACE**

The Institute is pleased to present this Self Study Report (SSR) to the National Assessment and Accreditation Council (NAAC), Bengaluru. Shanti Vardhak Education Society was duly registered in the year 1963 under chairmanship of Dr. Bheemana Khandre, former Transport Minister, Govt. of Karnataka with the primary objective of bringing quality education closer to the region. The college is approved by AICTE, New Delhi; affiliated to Visvesvaraya Technological University (VTU), Belagavi and sanctioned by Govt. of Karnataka.

The college is managed by enthusiastic, committed and visionary management, which is headed by an Engineer as well as a very popular 'MLA' of Bhalki constituency, committed and visionary principal, dedicated teaching and non-teaching staff. Alumni of the college are spread in all walks of life around the globe. The theoretical and professional skills of the students are enhanced by providing an innovative and flexible environment.

The college has a vast campus spread over 35 acres of land, spacious digital class rooms, well equipped laboratories, high speed internet, well stacked central library, departmental libraries and seminar halls, play grounds, health centre, ambulance, canteen, staff room, boys and girls hostels etc. The college has an auditorium of 1000 seating capacity for organizing the co-curricular and extra-curricular activities along with NSS cell, placement cell, SWO cell, IQAC Cell and others. The campus is made more eco-friendly by planting the trees and wide spread lawn, prohibiting the entry of polluting vehicles in the campus.

The Institute runs five undergraduate, five post graduate courses and four research programmes (Ph.D). All these courses are affiliated to VTU, Belagavi. During current academic year the students' strength in UG is 1792, 111 in PG and 42 in Ph.D. with the present intake as mentioned below.

#### **Under graduate courses Bachelor of Engineering in:**

<b>Sl. No.</b>	<b>Branch</b>	<b>Present intake</b>
1	Civil Engineering	120
2	Mechanical Engineering	180
3	Electronics & Communication Engineering	180
4	Computer Science and Engineering	120
5	Chemical Engineering	30



**Postgraduate courses:**

Sl. No.	Course	Specialization	Present intake
1	M.Tech. in Civil Engineering	i) Geotechnical Engineering ii) Water Resource Management	18 18
2	M.Tech. in Computer Science Engineering	Computer Science and Engineering	18
3	M.Tech. in Electronics & Communication Engineering	Digital Communication and Networking	18
4	Master of Computer Applications (MCA)		60

**Research Programmes:**

Sl. No.	Branch	Present intake
1	Electronics and Communication	48
2	Physics	16
3	Chemistry	16
4	Mathematics	24

The teaching faculty in the institute strives hard to impart knowledge to the students to make them competent and motivated engineers, ultimately developing the institute as a centre of academic excellence. They serve the purpose of inculcating a solid foundation of knowledge, enhancing confidence, creativity and innovation in the students. The existing laboratories in the departments are timely upgraded keeping in mind the revised syllabus structure as and when implemented by VTU, Belagavi. Some of the laboratories worth mentioning are the IoT Centre of Excellence, VLab, Automation Lab and Language Lab. These are state-of-the-art laboratories where students are exposed to modern and sophisticated instruments and testing facilities. The college has a conducive environment and enormous learning opportunities for the right candidates. It fosters their character building for a bright future so as to ultimately emerge as tomorrow's nation builders.



## **INTRODUCTION**

Bhalki, situated on Nanded - Humnabad highway, is the Taluka Head Quarter of Bidar District in the North-East Karnataka. Geographically, it is situated at the heart of Bidar District. Other taluka places, like Bidar, Humnabad, Basavakalyan and Aurad, lie at a distance of 38-40 kms. from it. It is a place with historical significance. The first recorded reference to Bhalki appears in the Copper Plate inscription of Jamalagaon (now in Maharashtra), inscribed during the rule of Vijayaditya-V of Chalukyas of Badami, tracing back to 696 AD. Here, Bhalki was mentioned as ***Bhalunke Desh***. Another inscription dated 1100 AD mentions Bhalki as the capital city of Kumar Hemmadi, who was subordinate ruler to the Chalukyas of Kalyan. It is to note that a chieftain named Ramachandra Jadhav built a fort here. Later, it was the head quarter of a Paiga Taluka of Khursheed Jah under the Nizam dynasty. During the ***12<sup>th</sup> Century A.D.***, known as the age of *Lord Basaveshwara*, Bhalki was called as the last gate of Kalyan, the seat of Sharanas. *Harihara* has referred in his *Ragale* to a Sharana called *Kumbar Gundayya* who was the resident of Bhalki. He described him as a *Sharana* who danced and made Shiva also dance with him. Even today the pot-maker's area of Bhalki has a Shiva temple locally known as Kumbheshwara.

This place which once enjoyed its own religious and political identity passed into oblivion for several centuries, particularly during the reign of Asifjahis of Hyderabad. This part of modern Karnataka was highly dominated by Urdu and Marathi Languages. Kannada, which has enjoyed a wide popularity during the age of Lord *Basaveshwara*, dwindled into a simple family language of the a few and relegated to the minority status and was on the verge of extinct. At this juncture, his Holiness *Sri Sri Channabasava Pattadevaru* of the local Hiremath Samsthan, after his education and spiritual training at *Shivayoga Mandira* of *Shree Hanagal Kumar Swamiji* returned to Bhalki and became the *Peethadipati* in 1924. Late *Sri Raikashirai Deshmukh* and late *Sri Shivalingappa Khandre*, the then prominent social workers of Bhalki, responsible for bringing *Swamiji* from *Kamalnagar* to Bhalki, felt a great relief. *Pattadevaru* began to propagate the precepts of Lord Basaveshwara and the other Sharanas. *Poojya Sri Channabasava Pattadevaru* was directed by his *Guru* to revive Kannada, the medium of discussion in *Anubhavamantapa* - the Parliament of the spiritually enlightened.



*Poojya Sri Channabasava Pattadevaru* rolled up his sleeves to materialize the directions of his *Guru*. This hallowed personality of Bhalki initiated his mission by starting a Kannada primary school at Morgi village. After some years due to administrative difficulties the school was shifted to Sangam village on the banks of the Manjra River. Although the school enjoyed a beautiful panorama, it was often troubled by floods and therefore was shifted to Kamanalagar.

His holiness Poojya Sri Channabasava Pattaddevaru was supported in his mission by Sri R.V. Bidappa and Sri Bheemanna Khandre. The *Pattaddevaru* founded ***Shanthi Vardhak Education Society at Kamalanagar*** and got it registered in the year 1963 with *Sri Bheemanna Khandre* as its Founder President. Although *Poojya Pattadevaru* wanted to get himself detached from the education society, His Holiness agreed, on the request of *Sri Bheemanna Khandre*, to continue as its *Sanchalaka*. At present *Sri Er. Ishwar Khandr, MLA Bhalki*, is the President and *Sri Keshavrao Nitturkar, Advocate*, is the Vice President of *S.V.E. Society, Bhalki*. Today a large number of students are taking quality & technical education in different institutions run by the management.

## **ABOUT THE COLLEGE**

Bheemanna Khandre Institute of Technology, Bhalki (formerly known as Rural Engineering College, Bhalki) in Bidar district of Karnataka State, located at the northern tip of Karnataka established in September 1982 is one of the best engineering colleges not only in Karnataka but in whole of India. This college is approved by AICTE, New Delhi; affiliated to VTU, Belagavi and sanctioned by Govt of Karnataka. It has got complete characteristics of a Regional Engineering College where about 50% students are from Karnataka and the rest 50% are from all parts of India i.e. Bihar, Jharkhand, Delhi, UP, Punjab, Himachal Pradesh, Maharashtra, Assam, Manipur, West Bengal, Gujarat and Andhra Pradesh etc. The Institute is well connected by road and railways to different parts of the country.

The college has very magnificent buildings and good infrastructure featuring about 70,000 sq. m. built-up area, well equipped class rooms & laboratories, workshops, drawing halls, seminar halls, big library having about 65,000 books and more than 1500 journals including e-subscribed, computer centre, Departmental Computer centres, browsing centres with broadband internet connectivity, 03 boys hostels accommodating about 700 boys and 02 girls hostels accommodating 350 girls, Canteen, Hospital with full time duty doctor, Bank, Gymnasium, Sport Facilities, Internal Quality Assurance Cell (IQAC), Training & Placement Cell, NSS, Student Grievances Cell, EDP Cell, STEP, Co-Operative store, Maintenance Cell, Industry-Institute Interaction Cell and Consultancy Cell etc.

The college assists students in Training & Placement activities. Our placement record is 80% for eligible students. Till date more than 8200 students have passed and are well placed in Government, Private and Public sector organizations in India and abroad and they are doing very well.

The institution is the chosen centre for satellite based education training programme through EDUSAT and VSAT by VTU & ISRO. The college also was a Monitoring Centre for "Mahiti Sindhu" a free computer education programme for Government High School students of Bidar District. The College runs the training programs for rural students sponsored by the Government Tool Room & Training Centre (GTTC). Karnataka Renewable Energy Development Ltd., Government of India (MHRD) sanctioned Solar Energy Park at our college.

Research activities are going on in the campus in various disciplines, few in collaboration with VGST Bengaluru. Laboratories of few departments are upgraded by the financial assistance of AICTE (under MODROB scheme). The Institution is the first Nodal Centre in Karnataka for



the Virtual Laboratories (VLabs.) of Indian Institute of Technology Roorkee, IIIT, Hyderabad and Amrita University, Kerala. The Institution also runs a Centre of Excellence in Internet of Things (IoT) in association with Preva Systems Pvt. Ltd., Bengaluru.

There is no Capitation Fee or Donation in the Institution. The admission procedure and process is completely transparent. For students scoring 75% and above marks fee concession/scholarship is provided. Similarly, top rank holders of Karnataka CET students, JEE (Main) as well as of other States Engineering Entrance Examinations also get concession in college fees/scholarship.

## **Vision, Mission and Objectives of the Institute**

### **VISION**

To build globally competent professionals in the field of Engineering, Management and Information Science by providing value and need based quality education.

### **MISSION**

To impart Technical & Management expertise and to inculcate Professionalism to deliver needs of the society to excel in real life situations at all levels.

### **OBJECTIVES**

- To build a campus of excellence for the promotion of quality education.
- To emphasize on Faculty Development Programme, Research and Development Activities.
- To encourage and motivate students for higher achievements and to develop their soft skill in emerging fields.
- To provide technical expertise to overcome the problems being faced by people in and around.
- To get the Institute accredited globally.



**S.V.E. SOCIETY's  
BHEEMANNA KHANDRE INSTITUTE OF TECHNOLOGY,  
BHALKI – 585 328 DIST: BIDAR, KARNATAKA**

**LIST OF STEERING COMMITTEE MEMBERS FOR THE  
ACCREDITATION BY NAAC**

<b>Sl. No.</b>	<b>Name</b>	<b>Designation</b>
01	Dr. Bipin Bihari Lal, Principal	Chairman
02	Prof. P.N. Divakar, Vice Principal	Member
03	Sri Somnath Mulge, Registrar	Member
04	Dr. Nagshettappa Biradar, Associate Professor, Electronics and Communication Engineering Department	Coordinator
05	Sri Anil Kumar Patil, Associate Professor, Mechanical Engineering Department	Co-coordinator
06	Sri Shivkumar Anadur, Associate Professor, Computer Science and Engineering Department	Member
07	Dr. Udaykumar Khadke, Associate Professor, Applied Science and Humanities Department	Member
08	Sri M. A. Devani, Head & Associate Professor, Chemical Engineering Department	Member
09	Sri Umakanth Mathapati, Assistant Professor, Mechanical Engineering Department	Member
10	Dr. Jagdeesh Tawade, Assistant Professor, Applied Science and Humanities Department	Member
11	Sri Khaja M, Assistant Professor, Civil Engineering Department	Member
12	Sri Yogesh G, Assistant Professor, MCA Department	Member

**S.V.E. SOCIETY'S  
BHEEMANNA KHANDRE INSTITUTE OF TECHNOLOGY,  
BHALKI – 585 328 DIST: BIDAR, KARNATAKA**

**LIST OF MANAGING COMMITTEE MEMBERS**

<b>Sl. No.</b>	<b>Name &amp; Address</b>	<b>Occupation</b>	<b>Designation</b>
01	Er. Eshwar B. Khandre, MLA R/o Gunj, Bhalki	Agriculture	Chairman
02	Sri Keshavrao Nitturkar, R/o Gunj, Bhalki	Advocate	Vice-Chairman
03	Sri Devaraya Nadepalli, Nanda Nivas, Om Nagar, Gulbarga	Agriculture	Treasurer
04	Dr. Bheemanna Khandre, Ex-Transport Minister, Govt. of Karnatak R/o, Gunj, Bhalki	Advocate	Member
05	Sri Veershetty Gangshetty, R/o Gandhi Gunj, Bidar	Agriculture	Member
06	Er. Amar Kumar B. Khandre, R/o Gunj, Bhalki	Agriculture	Member
07	Sri Kantialal Dhamji Shah, Fort Road, Gulbarga	Business	Member
08	Dr. Geeta. E. Khandre R/o Gunj, Bhalki	Agriculture	Member



**S.V.E. SOCIETY'S  
BHEEMANNA KHANDRE INSTITUTE OF TECHNOLOGY,  
BHALKI – 585 328 DIST: BIDAR, KARNATAKA**

**BOARD OF GOVERNORS OF THE COLLEGE**

<b>Sl. No.</b>	<b>Name</b>	<b>Designation</b>
01	Er. Eshwar B. Khandre MLA Bhalki	Chairman
02	Shri Keshavrao Nitturkar Advocate	Member
03	Er. Amar Kumar B. Khandre Leading Industrialist	Member
04	Dr. M. VenkataRatnam, Ex. Director, N.I.T, Warangal (TS)	AICTE Nominee
05	Dr. U. M. Bhusi, Principal, Sahyadri College of Engg. and Management, Mangalore	VTU Nominee
06	Dr. H. G. Shekarappa, Registrar (Evaluation), VTU, Belagavi	Member
07	Dr. K.V.Jayakumar, Professor, Dept. of Civil Engg., N.I.T, Warangal (TS)	Member
08	Dr. Sharanbasava C. Pilli, Ex. Principal, K. L. E. Belagavi	Member
09	Dr. Gangadhar Sastry, Ex. Director, N.I.T, Warangal (TS)	Member
10	Dr. Srikrishana Kumar, Regional Officer, AICTE, SWRO	Ex-Officio Member
11	Sri H. U. Talwar, DTE, Govt. of Karnataka	Ex-Officio Member
12	Dr. T. S. Vishwanath, Prof. & Head, Dept. of ECE, BKIT, Bhalki	Faculty Nominee
13	Dr. Ashok Kumar Koti, Head, Dept. of AS & H, BKIT, Bhalki	Faculty Nominee
14	Dr. Bipin Bihari Lal, Principal, BKIT, Bhalki	Ex- Officio Member Secretary

**S.V.E. SOCIETY'S  
BHEEMANNA KHANDRE INSTITUTE OF TECHNOLOGY,  
BHALKI – 585 328 DIST: BIDAR, KARNATAKA**

**INSTITUTIONS RUN BY S.V.E. SOCIETY BHALKI**

<b>Sl. No.</b>	<b>Name and Address of the Institution</b>	<b>Est. Year</b>
01	Shanti Vardhak High School, Kamalnagar	1963
02	Shri. Channabasaveshwar College, Bhalki	1968
03	Akkamahadevi Girl High School, Bhalki	1969
04	Akkamahadevi Mahila Maha Vidyalaya, Bidar	1971
05	Shanti Vardhak Composite Junior College, Kamalnagar	1973
06	Akkamahadevi Girl Composite Junior College, Bhalki	1980
07	Bheemanna Khandre Institute of Technology, Bhalki (REC)	1982
08	SVES Industrial Training Centre, Bhalki	1984
09	S.S. Degree College, Kamalnagar	1984
10	Akkamahadevi Girls High School, Bidar	1985
11	Haralayya Polytechnic, Bhalki	1987
12	Channabasava Higher Primary School, Kamalnagar	1995
13	SVES Industrial Training Centre, Kamalnagar	1998
14	SVES D.Ed. College (Bidar), Bhalki (APSO-1377)	2004
15	SVES D.Ed. College (Bidar), Bhalki (APSO-5377)	2007
16	SVES D.Ed. College (Bidar), Bhalki (APSO-5377)	2007
17	SVES B.Ed. College, Bidar	2007
18	SVES D.Ed. College (Bidar), Bidar	2007
19	SVES D.Ed. College (Marathi), Kamalnagar	2007
20	SVES D.Ed. College (Marathi), Aurad	2007
21	Sri Channabasaveshwar Post Graduate Studies & Research Centre, Bhalki	2011



## **II. EXECUTIVE SUMMARY**

### **Criterion I: Curricular Aspects**

Bheemanna Khandre Institute of Technology (BKIT) is a self-financing institution, affiliated to Visevesaraya Technological University (VTU), Belagavi. The Mission and Vision of the Institution scrupulously follows the curriculum laid down by the VTU in Toto, which reflects in the academic programmes of the college. The academic council will conduct regular meetings for effective implementation of curriculum. The Institution takes keen interest to initiate and support the faculty members either by organizing or permitting them to attend FDP, curriculum framing workshops, seminars and summer/winter school conducted by the Universities and other institutions. Number of faculty members represents as Board of examiners constituted by university and other autonomous body and in turn they play a role in framing and up gradation of curriculum. Academic flexibility and bridging the gap between the curriculum and industry is achieved through industry institute interaction, MoU's and conducting various development programmes for students. The college encourages self-employability by conducting Entrepreneurship Development Programme, skill development programmes. The college caters to the needs of all learners through the EDUSAT Programme provided by the university. Social awareness and community service is inculcated in the students through various activities. The institution is always striving hard to interact and gets feedback from stakeholders and communicate the same to the university for the Curriculum development.

### **Criterion II: Teaching-Learning and Evaluation**

At this Institute excellence in teaching and learning is achieved by recruiting competent teaching faculty. 55% of the admissions are carried out through government quota, 25% admissions are carried out through the management quota on merit basis and 20% through COMEDK quota (UG). For M.Tech 80% of the admissions are carried out through government quota and remaining 20% admissions are carried out through the management quota on merit basis. For MCA 50% of the admissions are carried out through government quota and the remaining 50% admissions are carried out through the management quota on merit basis.

Institute has been making conscious efforts to enhance the knowledge of faculty by supporting them to participate in FDP/Workshop/Seminar/conference. The Institute is motivating its faculty members to pursue higher education like M.Tech, Ph.D under QIP scheme. In order to have smooth conduction of teaching throughout the semester meticulous planning is done prior to the commencement of the semester. Weekly syllabus completion status is maintained. Tests and tutorials are conducted on a regular basis, to ensure that the students grasp the concepts being delivered in the class rooms and laboratory sessions. A feedback mechanism for the faculty by the students facilitates in effective conduction of the teaching learning process.

College is Organizing Entrepreneurship awareness camp, technical events, pre-placement training, Environmental & Social events such as plantation, 'Swatch Bharat Abhiyan', Mahatma Gandhi Jayanti, Dr.B.R.Ambedkar Jayanti etc. are arranged to enhance economic, environmental and social relevance.

### **Criterion III: Research, Consultancy and Extension**

The Institute has established a Research and Development cell in the year 2014. The functioning of the cell is monitored by a Research Committee which comprises of a Chairman, Member Secretary and members. Research projects are undertaken by the college on the basis of recommendations by the research committee. Currently institute has research grants from various funding agencies such as VGST, AICTE, KSCST etc. Rs. 1.7 Crs. The college promotes a research culture by giving complete autonomy to the principal investigators and allocating funds and resources on a regular basis. Faculties are encouraged to participate as resource persons in various workshops and conferences. The research carried out by the faculty has resulted in publication of about 576 papers during the last 4 years. Faculty is given sabbatical leaves for research activities. Inviting Expertise from industries for delivering Guest Lectures, key note addresses in Conferences, invited speakers in workshops to share their knowledge and expertise. Also our faculties have won best paper awards in international conferences. MoUs are signed with recognized research organizations such as IIT Roorkee, IIIT Hyderabad, Amrita University, Kollum, Kerala and industries like Preva Systems Pvt. Ltd, Bengaluru.

The college provides 24x7 Wi-Fi facilities to nurture research and scientific culture among the faculty and students. Several research related workshop/seminars/conferences etc., are organized for upgrading the knowledge of the students and faculties in research. Social and moral obligations towards society through active participation in National Service Scheme (NSS) activities, such as blood donation camps, health checkup camps and cleanliness drives in adopted villages.

### **Criterion IV: Infrastructure and Learning Resources**

Well-equipped infrastructure goes hand in hand for imparting quality education. The Institute has adequate number of class rooms, laboratories and tutorial rooms. First year class rooms are equipped with an LCD projector. The laboratories have state-of-the-art equipment's, machinery and software's. The college has seminar hall in each departments which are used for multiple activities such as seminars, workshops and conferences. The college central library has resources and a seating capacity of over 200 students. The library has a huge collection of book titles, references, journals, magazines and a book bank facility in order to promote the teaching learning process. The college is centrally located and has girl's hostel and boy's hostels on the campus. A gymnasium is provided in the college for the overall growth of the students.

### **Criterion V: Student Support and Progression**

The college has an intake of about 780 students from diverse background. College publishes prospectus containing the information about eligibility, infrastructure, admission process, programmes offered, etc. As admission process is through CET. The College helps the students to avail both central and state government scholarships based on category and also economical status. For physically disabled students infrastructural facilities such as ramps, hand railings, toilets, etc. are provided. Scribe is provided for visually impaired person. In order to cater the needs of students, proctor system is followed in the college. The proctor monitors the academic and overall development of 20 students. The proctor is in constant touch with the students and their parents.



The Training & Placement cell of the Institute provides career guidance and organizes campus recruitment drives for the students. The T& P cell prepares the students for placement activities through various initiatives such as online assessment tests and soft skills development Programmes. The college arranges special coaching for preparing students appearing for competitive examinations like GATE, GRE, and TOFEL etc. Development of Entrepreneurial skills is encouraged in the students through various entrepreneurship development activities. All the statutory committees such as Anti-Ragging, Grievance Redressal mechanism, Committee to restrain sexual harassment, etc are fully functional in the institute. Institute has a registered Alumni Association.

### **Criterion VI- Governance, Leadership and Management**

The institute governed by the board of governors comprising of management members, expert academicians, industrialists and nominees of AICTE, VTU, Govt. and. The leadership role is played by teachers who are members of the management. Faculty members are actively involved in the decision making process at various levels. The management is in constant touch with the Principal in order to discuss development of the Institute, administration and appointments. The management conducts BOG meeting to review the academic performance of the institute.

The College Development Committee that comprises of the Principal, head of departments and senior faculties, prepares action plan for the progress of the Institute. The college has grievance redressal committee, anti-sexual harassment committee offer platform for redressal of grievances. Anti-ragging committee exists to make the campus ragging free. The college organizes annual social gathering, workshops, seminars and conferences for the overall development of the students.

Institute is having an Internal Quality Assurance Cell (IQAC), headed by chairman, management personnel, teachers, administrative officers and member from local society. The primary aim of the IQAC is to develop a system for conscious, consistent and catalytic action to improve the academic and administrative performance of the institution.

**Criterion VII- Innovations and Best Practices**

The college is giving importance to keep the campus eco-friendly. Hence plantations, waste management, use of renewable energy sources and rain water harvesting etc. are introduced in the system. The institute promotes many practices to improve the quality of education and teaching-learning process to make the future of the students bright and excellent. Practical exposure to the students to abreast them with the changing technologies through industrial visits, sponsored projects, seminars, workshops and guest lectures by eminent personalities from the industry/institutions. The next best practice is Systemic Academic Monitoring of Students through the proctor/mentorship scheme, conduction of special classes for Lateral entry diploma students; help them to cope with their academics. The college organizes several training programs for students from the first year itself for improvement of their personality. Training programs for 3<sup>rd</sup> year and final year students are organized by T&P Cell for campus placement.

BPMS (BKIT Performance Management System) and BPAS (BKIT Performance Appraisal System) are the two indigenous developed mechanisms for ensuring effective implementation of teaching-learning process and overall development of the students and faculty members.

### III. SWOC ANALYSIS OF THE INSTITUTE

#### Strengths:

- Visionary leadership
- Professional Management
- System based working
- Team Work
- Experienced and highly qualified faculty
- Good teaching learning practices
- Retention of Staff
- Support for higher studies
- Brand value of SVES
- Culture based on respect and discipline
- World class infrastructural facilities such as State of the Art Laboratories, Class rooms, Tutorial rooms, Hostels and Central Library
- Entrepreneurship Development activities for development of entrepreneurial skills
- Better placements for eligible students
- The college promotes enthusiastic students participation for social causes through NSS programmes.
- Better academic performance of students.
- R&D environment.

#### Weakness:

- Location of college in rural area
- Poor Communication and Writing Skills of students
- Lacks of IPR
- Inadequate industry presence in Bhalki and Bidar
- Lack of financial Support (in Comparison to AIDED Institutions)
- The college needs to strengthen the Alumni Association.

#### Opportunities:

- Strengthening of Industry Institute Interaction
- Societal work devising solution to local issues

- Consultancy
- Networking with other institute and organizations
- Seeking more Research Grants

### **Challenges:**

- Awareness of parents towards technical education.
- Due to the growing number of engineering colleges, we need to attract academically good students
- Involvement of Industry professionals for sharing upgraded technical knowledge
- Improving the quality of admitted students professionally
- Students skill need to be enhanced through additional measures as per the continuous changing requirements of the industry
- To take necessary steps to improve admissions



## IV. Profile of the Affiliated /Constituent College

**1. Name and address of the college:**

Name : **Bheemanna Khandre Institute of Technology**  
 Address: **Humnabad Road, Bhalki, Dist. Bidar**  
 City: **Bhalki** Pin: **585 328** State: **Karnataka**  
 Website: **www.bkitbhalki.org**

**2. For communication:**

Designation	Name	Telephone with STD code	Mobile	Fax	Email
Principal	Dr. Bipin Bihari Lal	08484-262288	9449822128	08484-262663	bipinji@yahoo.com
Vice Principal	Prof. P.N. Divakar	08484-261411	9448505994	08484-262663	divakarpnd@gmail.com
Steering Committee Coordinator	Dr. Nagashettappa Biradar	08484-262288 Extn. -124	9448505353	08484-262663	nmbiradar@gmail.com

**3. Status of the of Institution :**

Affiliated College	√
Constituent College	--
Any other (specify)	--

**4. Type of Institution:**

a. By Gender

i. For Men

--

ii. For Women

--

iii. Co-education

√

b. By shift

i. Regular

√

ii. Day

--

iii. Evening

--

**5. Is it a recognized minority institution?**

Yes

--

No

√

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If yes specify the minority status (Religious/linguistic/ any other) and provide documentary evidence.

### 6. Source of funding:

Government	--
Grant-in-aid	--
Self-financing	√

7. a. Date of establishment of the college: 07 / 06 / 1982 (dd/mm/yyyy)

b. University to which the college is affiliated /or which governs the college (If it is a constituent college): Visvesvaraya Technological University, Belagavi

### c. Details of UGC recognition:

Under Section	Date, Month & Year (dd-mm-yyyy)	Remarks (If any)
i. 2 (f)	04-07-2013	--
ii. 12 (B)	---	--

(Enclose the Certificate of recognition u/s 2 (f) and 12 (B) of the UGC Act)- Annexure II

d. Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE, NCTE, MCI, DCI, PCI, RCI etc.)

Under Section/ Clause	Recognition/Approval detail Institution / Department/Programme	Day, Month and Year (dd-mm-yyyy)	Validity	Remarks
i.	AICTE, New Delhi	05/04/2016	01 year	--
ii.	Visvesvaraya Technological University, Belagavi	07/10/2015	01 year	--

(Enclose the recognition/approval letter)-Annexure III

8. Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?

Yes ☐ No ☒

If yes, has the College applied for availing the autonomous status?

Yes ☐ No ☒

### 9. Is the college recognized

a. By UGC as a College with Potential for Excellence (CPE)?

Yes ☐ No ☒

If yes, date of recognition: .....--..... (dd/mm/yyyy)

b. For its performance by any other governmental agency?

Yes ☐ No ☒

If yes, Name of the agency .....--..... and

Date of recognition: .....--..... (dd/mm/yyyy)

**10. Location of the campus and area in sq.mts:**

Location *	<b>Rural</b>
Campus area in sq. mts.	<b>141632.29</b>
Built up area in sq. mts.	<b>69829.00</b>

(\* Urban, Semi-urban, Rural, Tribal, Hilly Area, Any others specify)

**11. Facilities available on the campus (Tick the available facility and provide numbers or other details at appropriate places) or in case the institute has an agreement with other agencies in using any of the listed facilities provide information on the facilities covered under the agreement.**

- Auditorium/seminar complex with infrastructural facilities
- Sports facilities
  - \* play ground ☒
  - \* swimming pool --
  - \* gymnasium ☒
- Hostel
  - i. Boys' hostel : **03**
  - ii. Number of hostels : **03 (Located in the Campus)**
  - iii. Number of inmates : **264**
  - iv. Facilities (mention available facilities) **Mess (Vegetarian), Residence, Reading room, Indoor games, Gymnast, Wi-Fi, Ambulance, Recreation hall, Canteen, 24 hrs water and electricity.**
  - v. Girls' hostel
    - i. Number of hostels : **02**
    - ii. Number of inmates : **210**
  - vi. Facilities (mention available facilities) **Mess (Vegetarian), Residence, Reading room, Indoor games, Gymnast, Wi-Fi, Ambulance, Recreation hall, Canteen, 24 hrs water and electricity.**
  - vii. Working women's hostel ☒
    - i. Number of inmates 10
    - ii. Facilities (mention available facilities) -- **Residence & Boarding.**
- Residential facilities for teaching and non-teaching staff (give numbers available -- cadre wise)

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- Cafeteria -- ☒
- Health centre – ☒  
 First aid, Inpatient, Outpatient, Emergency care facility, Ambulance ☒  
 Health centre staff –  
     Qualified doctor                      Full time ☒      Part-time ☐  
     Qualified Nurse                      Full time ☒      Part-time ☐
- Facilities like banking, post office, book shops
  - i. Bank
  - ii. Post Office
  - iii. Bus Stop
  - iv. Generator
  - v. Solid Waste Management Facility
  - vi. Co-operative store
  - vii. 2 wheeler and 4 wheeler parking

### 12. Details of programmes offered by the college (Give data for current academic year)

Sl. No	Programme Level	Name of the Programme/ Course	Duration	Entry Qualification	Medium of instruction	Sanctioned/ approved Student strength	No. of students admitted (Regular + Re admission)
1	Under-Graduate B.E.	Civil Engg.	4 Years	10+2/ PUC	English	120	125+5
		Mech. Engg.	4 Years	10+2/ PUC	English	180	172+9
		E&CE	4 Years	10+2/ PUC	English	180	101+1
		CSE	4 Years	10+2/ PUC	English	120	84+1
		Chemical	4 Years	10+2/ PUC	English	30	20
2	Post-Graduate M.Tech.	WRM	2 Years	B.E. CIVIL	English	18	03
		GTE	2 Years	B.E. CIVIL	English	18	12
		DCN	2 Years	B.E. EC&E	English	18	03
		CSE	2 Years	B.E. CSE	English	18	02
		MCA	3 Years	Graduation	English	60	01
3	Integrated Programme	--	--	--	--	--	--
4	M.Phil.	--	--	--	--	--	--
5	Ph.D.	E&CE	3 Years	PG	English		18
		Physics	3 Years	PG	English		01
		Chemistry	3 Years	PG	English		02
		Mathematics	3 Years	PG	English		02
6	PG Diploma	--	--	--	--	--	--



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	Any Other (specify and provide details)	--	--	--	--	--	--
--	--	----	----	----	----	----	----

**13. Does the college offer self-financed Programmes? : Yes**

Yes ☒ No

If yes, how many?

**14. New programmes introduced in the college during the last five years if any?**

Yes	<input checked="" type="checkbox"/>	Number	<b>08</b>
-----	-------------------------------------	--------	-----------

**15. List the departments: (respond if applicable only and do not list facilities like Library, Physical Education as departments, unless they are also offering academic degree awarding programmes. Similarly, do not list the departments offering common compulsory subjects for all the programmes like English, regional languages etc.)**

Particulars	UG	PG	Research
Computer Science & Engineering	01	01	--
Civil Engineering	01	02	--
Mechanical Engineering	01	--	--
Electronics & Communication Engineering	01	01	01
Chemical Engineering	01	--	--
Master of Computer Applications	--	01	--
Applied Science & Humanities	--	--	03

**16. Number of Programmes offered under (Programme means a degree course like BA,BSc,MA, M.Com...)**

- a. annual system
- b. semester system UG  : PG:  : RESEARCH :
- c. trimester system

**17. Number of Programmes with**

- a. Choice Based Credit System
- b. Inter/Multidisciplinary Approach
- c. Any other ( specify and provide details)

**18. Does the college offer UG and/or PG programmes in Teacher Education?: No**

Yes ☐ No ☒

If yes,

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a. Year of Introduction of the programme(s).....--..... (dd/mm/yyyy)  
and number of batches that completed the programme -

b. NCTE recognition details (if applicable)  
Notification No.: .....--.....

Date: .....--..... (dd/mm/yyyy)

Validity:.....--.....

c. Is the institution opting for assessment and accreditation of Teacher Education Programme separately?

Yes: ☐ No: ☒

### 19. Does the college offer UG or PG programme in Physical Education? : No

Yes ☐ No ☒

If yes,

a. Year of Introduction of the programme(s)..... (dd/mm/yyyy) and number of batches that completed the programme -

b. NCTE recognition details (if applicable)  
Notification No.: .....--.....

Date: .....--..... (dd/mm/yyyy)

Validity:.....--.....

c. Is the institution opting for assessment and accreditation of Physical Education Programme separately?

Yes ☐ No ☐

### 20. Number of teaching and non-teaching positions in the Institution

Positions	Teaching faculty						Non-teaching staff		Technical staff	
	Professor		Associate Professor		Assistant Professor					
	M	F	M	F	M	F	M	F	M	F
Sanctioned by the UGC / University / State Government <i>Recruited</i>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<i>Yet to recruit</i>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sanctioned by the Management/society or other authorized bodies <i>Recruited</i>	16	--	27	01	90	29	130	26	54	08

\*M-Male \*F-Female

**21. Qualifications of the teaching staff:**

Highest qualification	Teaching faculty						TOTAL
	Professor		Associate Professor		Assistant Professor		
	M	F	M	F	M	F	
Permanent							
D.Sc./D.Litt.	-	-	-	-	-	-	-
Ph.D.	11		08		02	01	22
M.Phil.	--	--		--			
PG	05		19	01	88	28	141
Temporary							
Ph.D.	-	-	-	-	-	-	-
PG	-	-	-	-	-	-	-
Part-Time							
Ph.D.	-	-	-	-	-	-	-
PG	-	-	-	-	-	-	-

**22. Number of Visiting Faculty /Guest Faculty engaged with the College.**

Nil

**23. Furnish the number of the students admitted to the college during the last four academic years.**

Categories	2012-13		2013-14		2014-15		2015-16	
	Year 1		Year 2		Year 3		Year 4	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	21	11	32	20	41	19	49	20
ST	11	13	24	15	22	16	24	13
OBC	47	11	31	03	41	11	15	04
General	267	109	318	137	233	130	255	138

The above data is for admission every year to first semester (1 Year) of U.G and P.G Courses.

**24. Details on students enrollment in the college during the current academic year:**

Type of Students	UG	PG	M. Phil.	Ph.D.	Total
Students from the same state where the college is located	476	20	-	22	538
Students from other states of India	34	01	-	-	35
NRI students	00		-	-	00
Foreign students	08		-	-	08
Total	518	21		22	561

**25. Dropout rate in UG and PG (average of the last two batches)**

UG

2%

PG

Nil

**26. Unit Cost of Education**

*(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)*

(a) Including the salary component

**Rs. 51,082/-**

(b) Excluding the salary component

**Rs. 15,458/-**

**27. Does the college offer any programme/s in distance education mode (DEP)? : No**

Yes ☐ No ☒

If yes, a) Is it a registered centre for offering distance education programmes of another University

Yes ☐ No ☒

b) Name of the University which has granted such registration.

c) Number of programmes offered

d) Programmes carry the recognition of the Distance Education Council.

Yes ☐ No ☐

**28. Provide Teacher-student ratio for each of the programme/course offered:**

**UG: 1:15, PG: 1:10**

**29. Is the college applying for Accreditation:**

Cycle 1 : ☒ Cycle 2 ☐ Cycle 3 ☐ Cycle 4 ☐

*(Cycle 1 refers to first accreditation and Cycle 2, Cycle 3 and Cycle 4 refers to re-accreditation)*

**30. Date of accreditation\* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only)**

Cycle 1: .....(dd/mm/yyyy) Accreditation Outcome/Result :

Cycle 2: .....(dd/mm/yyyy) Accreditation Outcome/Result.....

Cycle 3: .....(dd/mm/yyyy) Accreditation Outcome/Result.....

**\* Kindly enclose copy of accreditation certificate(s) and peer team report(s) as an annexure.**

**31. Number of working days during the last academic year:**

**32. Number of teaching days during the last academic year:**

*(Teaching days means days on which lectures were engaged excluding the examination days)*

**33. Date of establishment of Internal Quality Assurance Cell (IQAC): 27/02/2016**

**34. Details regarding submission of Annual Quality Assurance Reports (AQAR) to NAAC.**

**35. Any other relevant data (not covered above) the college would like to include. (Do not include explanatory/descriptive information)**



**The college has large number of achievements. Some of the major ones are mentioned below:**

- 47 university rank holders.
- Only college in Karnataka to have Centre of Excellence in Internet of Things (IoT)
- Only college in Karnataka to be a Nodal Centre for VLabs of IITR and IIITH.
- Many students qualified GATE and two with 99.2 percentile scores.
- Some of the alumni have acquired Ph.D from I.I.T, Kharagpur, IIT, Mumbai, IIT, Madras and IIT, Roorkee and are serving world-wide.
- More than 8200 students have passed out in 30 batches.
- About 1700 students went for higher studies or self employment.
- Roughly 35% of the students are girls.
- 18% of the students belong to SC, ST or OBC categories.
- 576 publications in national and international journals during last four years.
- Many alumni have achieved high corporate leadership positions.
- Selection for Office Automation in the first stage, one among the Ten Engineering colleges in Karnataka by Visvesvaraya Technological University, Belagavi.
- Selection for Interactive EDUSAT by VTU, Belagavi and Govt. of Karnataka, which was the first in North Karnataka.
- Selection for imparting training in Bidar district under “Mahiti Sindhu” Project of Karnataka Government.
- Selection for imparting training in Bidar district under Integrated Rural Water Supply and Sanitation Scheme (World Bank Project).
- Campus Automation through Smart Campus Software.
- With e-Vidya scheme of the VTU, Belagavi in the first phase of its launch.
- In the year 2009 the college got accredited by National Board of Accreditation (NBA) for three years in Mechanical Engineering, Electronics & Communication Engineering and Computer Science and Engineering branches.
- In the year 2010 Chemical Engineering branch got accredited by NBA for three years.
- As consultants for verification and inspection of various public works assigned by Govt. of Karnataka for Gulbarga and Bidar districts related to Civil, Electrical and Mechanical

works worth Rs. 23 Crores. Inspection assignment of works to the tune of Rs. 25 Crores is on the anvil for 2010-11.

- In spite of economic recession, our college has almost achieved student intake to its total capacity.
- VTU, Belagavi has sanctioned a research project of Rs.10 Lac for “Photonic Device for Optical Networks”.
- Vision Group of Science and Technology has sanctioned a budget of Rs. 1.40 Crores under various disciplines till date.
- The college holds the rare distinction of having organized two the “International Conference on Communication Computation, Control and Nano-Technology” in this rural part of north Karnataka along with many national conferences and workshops.

SECTION - B

# CRITERIA WISE INPUTS

## CRITERION I: CURRICULAR ASPECTS

### 1.1 Curriculum Planning and Implementation

#### 1.1.1 How are the Institutional mission / vision reflected in the academic Programmes of the College?

The Mission and the Vision of the Institution are as follows:

##### **Vision of the Institute:**

To impart technical and management expertise and to inculcate professionalism to deliver the needs of the society to excel in real life situations at all levels.

##### **Mission of the Institute:**

To build excellent professionals in engineering and technology, management and information science by providing value and need based quality education

The stated Mission and Vision of the Institution are reflected in the academic programmes of the college as follows:

- UG, PG and Research Programmes are offered in the fields of Engineering and Technology.
- The Mission and Vision of various academic programmes are framed in such a way that they are in line with the Mission and Vision of the Institute.
- Laboratory training and projects are offered as part of curriculum.
- Domain experts are invited for providing special training to students & staff.
- Organizing workshops, seminars, providing hands-on training in the emerging areas of Engineering, Technology and Management.
- Encouraging students to carry out innovative projects.
- Motivating and encouraging students and faculty members for Research, Publications, IPRs, Consultancy and new product / process development and knowledge enhancement etc.
- Provision to students to take up inter-disciplinary electives of their choice.
- Providing training programs to the students on Soft Skills, Personality Development Programme, Competitive Exams, and Communication Improvement Programme.
- Deputing students for internships and industrial training in MNCs.

### **Publication and dissemination of Mission and Vision:**

The Mission and Vision of the Institution are being disseminated through different means to ensure that they reach to all the stakeholders of the system. The Mission and Vision of the institute and various academic programmes are displayed and projected in

- Institute website : <http://www.bkitbhalki.org>
- Central Library
- Administrative cabins, office rooms and laboratories
- Department notice boards, Department Heads cabin and faculty cabins
- Rules & Regulations books

Apart from these, they are also disseminated to all the stakeholders through,

- Orientation programmes conducted during the induction of a new academic batch
- Awareness workshops to students and faculty periodically
- Alumni Meet
- Parent Meet

### **1.1.2 How does the Institution develop and deploy action plans for effective implementation of the curriculum? Give details of the process and substantiate through specific example(s).**

The curriculum is designed by the affiliating University, Visvesvaraya Technological University (VTU), Belagavi.

- The Institution follows and develops action plan for effective implementation of the curriculum prescribed by VTU, Belagavi.
- In the beginning of the academic year, Academic Monitoring Committee (AMC) prepares an academic calendar in consultation with Heads of the Departments.
- The time table for each class is prepared and effective monitoring of the same is carried out by BKIT Performance Management System (BPMS) committee.
- The schedules for seminars, assignments, and internal assessment tests are also mentioned in the academic calendar and monitored by BPMS committee.
- Lesson plans and course files are maintained by each faculty for their respective subjects. These are reviewed on a continuous basis by the HOD and the Principal.
- Class coordinators, HODs, Parents and Alumni meetings help in taking suitable measures for the effective implementation of the academic process.
- The syllabus, question papers, examination time table and other curricular activities



are available on VTU website ([www.vtuelearning.com](http://www.vtuelearning.com) & <http://videos.vtu.ac.in>) which are downloadable and DVD's for subject notes are made available by VTU itself.

### **Guidelines and contents of the course file:**

1. Name of the subject in bold letters, subject teacher and teaching scheme on cover of the file.
2. The policy and guide lines for preparation of the course file and maintaining teacher's attendance register are briefed by the Principal in the beginning and end of each semester.
3. Copy of academic calendar specifying the schedules for various activities to be carried out during an academic semester are provided to the teachers and same is entered in teacher's diary.
4. Copy of Class Time Table.
5. Individual Time Table.
6. Teaching Plan for all the subjects handled by respective teachers covering complete syllabus prescribed by VTU, with an aim to team all sub-topics in stipulated time period.
7. Plan for completing all experiments prescribed for Practical classes along attendance sheet and continuous evaluation sheet.
8. Tutorial Plan & attendance sheet.
9. Copy of BPMS Manual which specifies the duties and responsibilities of Principal, Heads of the Departments, Class Coordinators, Faculties and students are included for effective implementation of curriculum.
10. Six recent Question Papers of University examinations.
11. Objectives of each subject.
12. Outcomes of each subject.
13. Assignment Questions.
14. Unit wise notes.
15. Contents beyond syllabus for the chapter.

**Constitution of the Academic Council:**

Sl. No.	Academic Council Members
1	Chairperson – Principal
2	Academic Dean- Senior Faculty
3	Heads of all the Departments
4	University Nominee
5	Expert Nominee – from Industry, Commerce, Law and Medicine
6	Senior Teaching Representatives
7	Student Member
8	Member Secretary

**Constitution of the Board of Governors:**

Sl. No.	Members Constituting the Board of Governors
1	Chairman of the Institute
2	Five Members from Management
3	One Educationalist
4	One Industrialist
5	One Member from AICTE
6	One Member from State Government
7	One University Nominee
8	Two Senior Teaching Representatives
9	Ex-officio- Principal

Every Department has a Departmental Advisory Committee, comprising of faculty members, experts from industries, academicians, and students. This committee meets once at the commencement of every academic year to discuss the following:

- Vision and Mission of the Department
- Data collected from Stakeholders
- Details of the current status of admissions
- Quality of admitted students
- Teaching & Learning Process
- Faculty and their Research activities
- Facilities in the Department
- Data collected on prospect/ potential of identified industries relevant to academic programme/ research organizations/ Higher educational Institutions
- Revision and up gradation based on feedback obtained from the stakeholders
- Actions to be taken on points discussed in meeting

Apart from the above, the Institution has the following Committees for better organization and governance of the curriculum.

<b>Name of the Committee</b>	<b>Frequency of meeting</b>
Class Committee	Twice in a Semester
Course Committee	Once in a Semester
Time Table Committee	Once in a Semester
Project Review Committee	Four times for final year

**Class Committee:**

A class committee consisting teachers of the concerned class, student representative and a chairperson (HOD) meet twice in a semester with asset of objectives for improving the overall performance of the students.

**Course Committee:**

A Course Committee comprises all the teachers teaching the common course with one of them nominated as course coordinator.

**Functions of Class Committee / Course Committee:**

- Review of Syllabus coverage.
- Solving the problems experienced by the students in class room and in laboratories.
- Analyzing the performance of the students in class tests.
- Identifying weak students, providing guidance, support and special coaching.
- Identifying Co-Curricular activities.

**Project Review Committee:**

The Project review committee comprises of

- Head of the Department.
- Project Coordinator.
- Project Guide.
- Senior faculty of the department

This committee makes assessment of incremental improvements in various stages of the project work.

**1.1.3 What type of support (procedural and practical) do the teachers receive (from the University and/or Institution) for effectively translating the curriculum and improving teaching practices?**

**Support from University:** The curriculum for UG and PG are prescribed by VTU, Belagavi.

This is a well structured, unitized and modeled curriculum providing the details like teaching and marking scheme. The university organizes workshops for syllabus formation wherein faculty members understand the depth and coverage of the curriculum along with nature of question paper.

**Support from Institution:** Staff members are given sponsorship from Institution to attend National and International seminars /conferences/workshops and short term training programmes conducted in other Institutions, in addition to the in-house training courses managed by experts and veterans from various teaching and research Institutions, so that faculties are enhanced with motivation, soft skills and management potentials through systematic orientation in specific subjects, techniques and methodologies.

- Faculty Development Programs/Workshops/Orientation programmes help the faculty to:
  - Acquire and improve the art of teaching to achieve goals of technical higher education.
  - Keep abreast of the latest developments in specific areas of Engineering and Sciences.
  - Acquire knowledge of various software and tools to enhance their IT capability.
- The Institute provides ample learning and reference material, Journals, high speed internet connectivity, overhead projectors, and interactive panels to enable effective delivery of the curriculum.
- The staff members are given training on “Teaching effectively using ICT”. Experiential learning, micro teaching methodology, project based pedagogy, innovative and creative learning modules are provided through these trainings to improve teaching and learning practices.
- The Institute has the Faculty Empowerment Strategy for the growth and development of the faculty.
- The Institution encourages the faculty to pursue higher studies and to take up the research work individually or in collaboration.

For promoting effective translation of curriculum the Departments/classrooms/Laboratories are equipped with resources such as,

- Models and Charts
- Wi-Fi internet facility

- e-Journals and Open Educational Resources
- Projector

Advanced Laboratories are set up with latest equipments to strengthen the curriculum delivery. Ultra modern computer Labs with latest software packages are provided to meet growing challenges of the industry. Budget of the institute is on a need based policy. Financial requirements are sought in a bottom-up manner giving ample opportunity for the teachers to procure and set up the Labs as per the curriculum requirement and beyond.

### **1.1.4 How does the College involve industry, research bodies, and civil society in the curriculum design and development process? How did the College benefit through the involvement of the stakeholders?**

The curriculum is designed by university, but the Institution has established an effective network with the industries, R&D organizations, research bodies, academia and civil society to keep pace with the latest developments in the field of Engineering and Technology for the benefit of students and staff, to ensure that such developments are ultimately useful to the civil society.

#### **Networking and Interaction with Industry:**

The Institution involves the members from industry at every stage of its functioning like the Department Advisory Committee, Academic Council, Internal Quality Assurance Cell, and also in the Board of Governors. The institute interacts with the following leading industries/corporate houses:

- Airtel, Bangalore
- IBM, Bangalore
- Bharat Heavy Electricals Ltd (BHEL), Bangalore
- Tata Consultancy Services, Pune
- Indian Railways
- Robert Bosch Engineering and Solutions
- Tech Mahindra, Pune
- Infosys Technology Ltd. Bangalore
- Oracle, Bangalore
- Cognizant Technology Solutions, Bangalore
- ABB CAMO Software India Pvt. Ltd., Emirates Group
- BSNL

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- TELCO, Pune
- Lotus Wireless Technologies Pvt. Ltd. Visakhapatnam
- Accenture Service India Pvt. Ltd, Bangalore
- Huawei Technologies Pvt. Ltd (Australia)

**The institute has signed MOUs with various leading Industries/Institute.**

Sl. No	Institute/ Industries	Contact Person	Details	Year of Signing
1	Preva Systems Pvt. Ltd., Bengaluru	Mr. Sharan K., Managing Director	Internet of Things, Centre of Excellence	2015-16
2	Pro-SIM R & D Pvt. Ltd., Bangalore	Mr. Chidanand G., Technical Head	Pro-SIM Learning centre	16/05/2016
3	COPEs Tech. India Pvt. Ltd., Bangalore	Mr. Rajesh Deshilinge Gowda, M.D.	COPEs Tech. India Pvt. Ltd.,	05/01/2016
4	IIT Rorkee	Dr. Vinod Kumar, Professor, Dept of EE, IITR	VLabs, IITR	2014-2015
5	IIIT Hyderabad	Dr. Venkatesh Chopalla, Professor, Dept of CS, IIITH	VLabs, IIIT, Hyderabad	2014-2015
6	Amrita University	Miss. Shilpa Selvan	VLabs, AU	2014-2015
7	MEDINI, Bangalore	MEDINI Bangalore	Medini Bangalore	06-04-2013
8	SPHR Solutions, Mumbai	Rahul Desai, Director	SPHR solutions Pvt. Ltd. Mumbai	03-08-2011

- The students are encouraged to undergo in-plant training in industries.
- Faculty and students are encouraged to go on industrial visit for understanding the latest technological developments.
- Invited talks by industry personnel are arranged by each Department to have interaction with faculty and students.
- Departments encourages faculty to do consultancy work in collaboration with industry based on the expertise available.

**The outcome of the industry interaction and MoUs during the past 5 years resulted as follows:**

Particulars of industry interaction and MoUs	Beneficiaries(No.)
Faculty members with industrial experience/trained	22
Students who attended industrial training	36



Visits made by student groups to industry	17
Industry-based student projects	84
Industrial personnel who took class/gave special lectures	37
M.Tech. Thesis	101
Consultancy projects	09
Testing services	355

**Networking and interaction with Research bodies/ Academic Institutions**

- The eminent professors from the reputed Institutions and practicing Engineers from industries are invited to deliver the special talks.
- The faculty members of the institute are motivated to engage in research activities by interacting with various research bodies and academic Institutions.

**Networking and Interaction with civil society and professional society**

- Feedback is obtained from alumni/ parents/ other organizations and professional societies, and the relevant suggestions are considered while implementing the curriculum.
- By involving all stakeholders, the college ensures that the curriculum implemented encompasses components for employability, research topics in emerging trends, social relevance and social needs.
- As a result, it offers huge scope for in-depth knowledge and equips the learner to compete successfully at the vertical and horizontal levels.
- The interaction of the Institution with the civil society is quite good with the objective of using the technology for the benefit of mankind and to know the needs of the society.

**The Institution has the following active professional societies:**

1. Institution of Engineers
2. Institute of Electrical and Electronics Engineers (IEEE)
3. Indian Society for Technical Education (ISTE)
4. Institute of Electronics and Telecommunication Engineers (IETE)
5. Computer Society of India (CSI)
6. Indian Science Congress Association (ISCA)

**1.1.5 Specify the initiatives taken up or contribution made by the Institution for effective curriculum delivery and transaction on the Curriculum provided by the affiliating University or other statutory agency.**

- The institute has developed a mechanism by the name BPMS for effective implementation of teaching-learning process.

- Based on BPMS, the institute has come out with the circulars guiding the teachers for effective delivery and transaction of the curriculum.
- Course file/subject file of a teacher contain circulars of the academic and administrative policies, Vision and Mission of the Institution and Department, Time table, Teaching plan, student list, syllabus, notes, contents beyond syllabus and six previous question papers along with model answers. Any deviation from the teaching plan is compensated at the earliest.
- Institute provides and maintains the best possible infrastructure. All Departments are equipped with resources such as internet facility, Department Library, e-Journals, projector, Interactive panels, OER's (Open Educational Resources), and smart class rooms with modern facilities.
- Effectiveness of deploying the curriculum delivery is also measured by continuous evaluation of the students by conducting IA tests, special tests, surprise tests, assignments, continuous evaluation in practical sessions and seeking feedback. Corrective steps are taken accordingly.
- Industrial visits are arranged so that students can get practical exposure on the subjects of curriculum.
- Suitable Lab experiments are designed as per curriculum and conducted to make the students understand the concepts more effectively.
- The learning materials [text books, solved question papers (question bank), lab manuals, etc.] are prepared by faculty and made available to the students.
- Remedial classes and tests are conducted to bring the slow learners on par with other students.
- Review of syllabus completion and its effectiveness is taken in students' council meeting in addition to feedback.

### **The following aspects ensured through curriculum.**

- Employability.
- Innovation.
- Research.

### **Employability is ensured through the following aspects:**

- Need - based curriculum.
- Acquisition - based training.
- Presentation of technical papers at seminars and conferences.

- Participation at in-house and national level competitions.

**Innovation is encouraged through the following aspects:**

- Value added courses / Training to the students.
- Project grant for UG and PG students to work on innovative projects.
- Grant for Faculty working on innovative projects.
- Reward for successful innovative work.

**The research ability of the students/faculty is brought out through the following aspects:**

- Providing the research infrastructure for staff and students to carry out Project work.
- Academic reward for research publications.
- Encouragement and motivation to faculty for pursuing higher Studies (Ph.D.) by providing financial support, special study leave, e-resources, internet, computer, reprographic and photo-copying facility.

**No. of Faculty with Ph.D. and pursuing Ph.D. as on-Jan 2016**

Sl. No.	No. of Ph.D. holders	As External Scholars		Internal Scholars Pursuing Ph.D.
		Thesis Submitted	Pursuing Ph.D.	
01	22	02	45	10

- Motivation to faculty members for publishing research papers in high impact and Thomson Reuters indexed journals

The institution has VTU recognized Research Centers in the following Departments:

- Electronics and Communication Engineering
- Department of Physics
- Department of Chemistry
- Department of Mathematics

**1.1.6 What are the contributions of the Institution and/or its staff members to the development of the curriculum by the University? (Number of staff members / departments represented on the Board of Studies, student feedback, teacher feedback, stakeholder feedback provided, specific suggestions etc.)**

## SELF STUDY REPORT (SSR)

The faculty members of the Institution have represented as BOE, Faculty and Academic Council of the University and have contributed in the development of curriculum. In addition, faculty members actively participate in subject wise syllabus setting workshops organized on behalf of the university. Some of the details in this respect are given below:

Sl. No.	Name of the Faculty	Department	Nature of Work
1.	Dr. B.B. Lal	CIVIL	Members of local inquiry committee (LIC)
2.	Dr. A. M. Bhavikatti	ECE	Members of LIC, Member of board of examiners (BOE)
3.	Dr. C. M. Tavade	ECE	Member of BOE, Members of LIC
4.	Dr. T. S. Vishvanath	ECE	Member of BOE, Members of LIC
5.	Dr. Ashok Kumar Koti	ASH	Member of BOE, Members of LIC
6.	Dr. Vijaykumar Durg	ASH	Member of Board of Examiners
7.	Dr. Sangshetty Kalyane	ASH	Member of Board of Examiners
8.	Dr. Uday Khadke	ASH	FAC/R&D/BOE
9.	M. A. Devani	CHE	Member of Board of Examiners
10.	B.S. Patil	CHE	Member of Board of Examiners
11.	Dr. V. M. Devappa	CIV	Member of Board of Examiners
12.	Sunil K. Sangame	MCA	Member of Board of Examiners
13.	Basvaraj Prabha	MCA	Member of Board of Examiners
14.	Dr. Sanjay Gowre	ECE	LIC, R&D

After obtaining the feedback from faculty, stakeholders and students, the college submits its report to the respective Board of Studies of the University for the Improvement and inclusion of additional topics in the curriculum.

**1.1.7 Does the Institution develop curriculum for any of the courses offered (other than those under the purview of the affiliating university) by it? If ‘yes’, give details on the process (‘Needs Assessment’, design, development and planning) and the courses for which the curriculum has been developed.** **YES**

The college is recognized as a Nodal center for V-Labs of Indian Institute of Technology Roorkee, IIIT Hyderabad, and Amrita University Kerala. These labs are being used by students and staff to perform various experiments available at the premier institutions. It is a step forward to provide world-class facility at a rural place. The institution has MoUs with industries such as Preva Systems which conduct various certificate courses for students.

Institute has also developed curriculum for add-on courses, other than those under the purview of the University. Institute is situated in the most backward rural part of KARNATAKA and the majority of the student’s medium of instruction is in their mother tongue prior to admission to the Engineering college. Lack of English communication skills

and stage fright creates a sense of insecurity in the students. In the global era, communication plays a vital role in the employability of the graduates. Having this need, an indigenous Communication Improvement Programme (CIP) curriculum has been designed. Lesson plans and subject content have been developed. Deployment of the CIP curriculum is planned by conducting the sessions twice a week. A specialized language Lab is also set up in the Institution in this direction.

**1.1.8 How does Institution analyze/ensure that the stated objectives of curriculum are achieved in the course of implementation?**

- Every department has defined its specific Mission and Vision in tune with the Mission and Vision of the institute. Each program of the department is elaborated in terms of Program Outcomes (POs) which are aligned with graduate attributes. Furthermore, Curriculum is defined in terms of Course Outcomes (COs) for every course taught for effective deployment of the curriculum.
- The college meticulously develops action plans for effective implementation of the curriculum for achieving the learning outcomes. Before the beginning of every semester, faculty meeting is conducted by the Principal.
- Strategies for effective deployment of curriculum and development of activities beyond the curriculum are evolved. Planning is done to impart the curriculum through innovative teaching methods such as presentations, assignments, discussions, workshops, seminars, industrial visits, computer education apart from regular/traditional teaching methods.
- Academic calendar is evolved to incorporate all the curricular and co- curricular activities such as technical fest, fresher's meet, get together, Departmental meets etc.
- Teaching plans of teachers are prepared based on the Academic Calendar. Subject Files are prepared and maintained by each faculty which is reviewed on continuous basis by the Head of the Department during the weekly meetings.
- Any deviation from the Academic Calendar and in the teaching plan will be compensated at the earliest to ensure minimum variation. The laboratories and lab manuals are made ready prior to the start of the semester. Lab manuals are reviewed periodically, audited and modified as per the requirement.
- Proctor Teacher (Local Guardian) scheme under BPMS is very effectively implemented in college for continuous evaluation and measure to be taken for the improvement of the students' performance on weekly basis.

- The student's data, admitted to higher studies and number of placements, are used to analyze the achievement of learning outcomes.
- Feedback is taken at regular intervals, analyzed and corrective steps are taken to ensure that the stated objectives of curriculum are achieved.

### 1.2 Academic Flexibility

#### **1.2.1 Specifying the goals and objectives, give details of the certificate / diploma / skill development courses etc., offered by the Institution.**

The primary goal of the Institute is to produce employable engineering graduates who understand and demonstrate the ability of lifelong learning. For accomplishing this goal, Institute has designed and developed various skill development courses. In addition, Institute has also entered in MoUs with various organizations. The following is the list of some of the courses presently conducted at the institute. Apart from these each Department also organizes special talks, workshop and interactive sessions with alumni.



## SELF STUDY REPORT (SSR)

**Table No.1.2.1 Details of the certificate / diploma / skill development courses:**

Sl. No.	Name of the Skill Development Programme/Course	Objective	Goal
1	Entrepreneurial Development Program(EDP)	With the growing needs at state, national and global level in self employment, Institute conducts EDP to bring awareness about the methods and ways to start business. Institute supports this course financially.	Students must identify legal issues affecting development, ownership and operation of companies
2	Communication Improvement Programme (CIP)	In the global era, communication plays a vital role in the employability of the graduates. Having understood this need, an indigenous Communication Improvement Programme (CIP) has been conducted.	100% students must participate in CIP. At the end of course, students must be proficient in the usage of grammar.
3	Aptitude Training Programme /Training for Competitive Exams	The objective of this programme to prepare the students for aptitude and logical reasoning tests of the companies.	Students must show an ability to get qualified in the pre-placement aptitude tests
4	ANSYS	The objective of the training is to enable the students to learn ANSYS software used for prediction and analysis of behavior of components/products in real life situation.	At the end of the course, students must demonstrate proficiency in using ANSYS software.
5	CATIA	The objective of this program is to familiarize the students with CATIA program. CATIA is used to model product and to do so in the context of product behavior	At the end of the course, students must demonstrate the ability to design products using CATIA software.
6	AUTO CAD	The objective of this course is to impart the knowledge of AUTO CAD to students	Students must be able to use AUTO-CAD for orthographic and isometric drawings
7	Soft Skill Development Training	To impart the soft skills necessary for employability	At the end of the course, students should to be optimistic, understanding personality traits, social graces, and communication with friendliness.
8	Pre-Placement	The objective is to impart the training for upgrading the	At the end of the training students

## SELF STUDY REPORT (SSR)

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	Training	industrial compatible skill among the students.	must demonstrate skills and capabilities of succeeding in campus interviews.
9	Personality Development Programme	The objective of this program is to increase the confidence and bring out best personality traits in the students resulting in better employability and aptitude for life-long learning.	Students must develop the ability for life-long learning and develop better personality traits resulting in peaceful, social coexistence in all walks of life.
10	Training programme for Under- Graduate Projects	The objective of programme is to learn the design of electronic circuits to solve the real time applications.	At the end of the training students must demonstrate the ability to design electronic circuits for the projects allotted to them.

**1.2.2 Does the Institution offer programmes that facilitate twinning/dual degree? If ‘yes’, give details.**

No, institute does not facilitate such programmes at present.

**1.2.3 Give details on the various Institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skills development, academic mobility, progression to higher studies and improved potential for employability.**

Following are some of the ways with reference to academic flexibility through which students get help for skills development, academic mobility, progression to higher studies and improvement in employability potential:

- Elective options which are offered by the University, College will follow the same.
- Students enhance their academic and employability skills through the following:
- Additional lecture, study hours etc are introduced for problem oriented and difficult subjects.
- Guest lecturers given by eminent persons in emerging areas from industry and from renowned Institutions.
- Mini projects and industry based final year projects and seminars.
- Industrial visits.
- Teaching content beyond the syllabus in theory and practical courses.
- Skill enhancement and development courses as mentioned in table 1.2.1 for improving employability potential. In addition to above provisions, Institute provides newspaper/weekly's/monthly magazines in reading room of the hostel with an aim to improve the communication skill.
- Training programmes for GATE preparation is provided by professionals.
- Provision for vocation training / in-plant training for academic mobility and encouraging students or interdisciplinary projects.

Thus acquired knowledge and skills goes a long way and helps students in getting their dream jobs. This also meets our aim to confer with global requirements.

**1.2.4 Does the Institution offer self-financed programmes? If ‘yes’, list them and indicate how they differ from other programmes, with reference to admission, curriculum, fee structure, teacher qualification, salary etc.** **YES**

BKIT, Bhalki is an exclusively self-financing professional Institution for technical and management education. The college offers the following undergraduate and post graduate programmes.

**Table No.1.2.2 Details of the courses Offered for UG, PG and Ph.D.**

Sl. No	Programme Level	Name of the Programme/ Course	Duration
1.	Under-Graduate (UG)	Civil Engineering	4 Years
		Mechanical Engineering	
		Electronics and Communication Engineering	
		Computer Science and Engineering	
		Chemical Engineering	
2.	Post-Graduate (PG)	M.Tech. Geo-technical Engineering	2 Years
		M.Tech. Water Resource Management	
		M.Tech. Digital Communication and Networking	
		M.Tech. Computer Science And Engineering	
		Master of Computer Applications	3 Years
3.	Ph. D.	Electronics and Communication Engineering	Min. 3 Years
		Physics	
		Chemistry	
		Mathematics	

**Table No. 1.2.3 Difference between our Institution and others**

Sl. No.	Parameters	Our Institute	Other Colleges
1.	Basis for Admission	12 <sup>th</sup> PMC/B/COMP/E marks with CET, COMEDK, IIT-JEE score for govt. quota and through Management Quota	Score in 12 <sup>th</sup> as the case may be
2	Admission Eligibility	As prescribed by Directorate of Technical Education(DTE), Govt. of Karnataka	Score in 12 <sup>th</sup> as the case may be
3	Curriculum	As prescribed by VTU	As prescribed by University or autonomous body may be
4	Fee Structure	As prescribed by State GOVT./DTE & Decided by BoG, BKIT, Bhalki	As prescribed by State Government/ University/

			Shikshan Shulk Samithi as the case may be
5	Teacher Qualification	As prescribed by the All India council for Technical Education (AICTE), New Delhi	As prescribed by UGC /AICTE as the case may be

**1.2.5 Does the college provide additional skill oriented programmes, relevant to regional and global employment markets? If ‘yes’ provide details of such programme and the beneficiaries.** **YES**

The Institution has identified a number of regional and global employability skills that would uphold better productivity and performance among students. Some of the programmes are as given below in table.

**Table No.1.2.4 Details of the Programme and Beneficiaries**

Sl. No.	Name of the Programme	Beneficiaries
1	Entrepreneurship Development programme (EDP)	Students
2	Communication Improvement Programme (CIP)	Students, Faculty
3	Aptitude Training Programme	Students
4	Auto CAD Training	Students, Faculty
5	CATIA	Students, Faculty
6	ANSYS Training	Students, Faculty
7	Soft skill development programme	Students
8	TCS Campus Commune Programme	Students
9	Wipro Mission10x	Faculty
10	Personality Development Programme	Students
11	Training programme for Under-Graduate Projects	Students
12	Full-wave & Band-SOLVE Software	Students
13	Robotics	Students, Faculty
14	AMCAT	Students

**1.2.6 Does the University provide for the flexibility of combining the conventional face-to-face and Distance Mode of Education for students to choose the courses/combination of their choice” If ‘yes’, how does the Institution take advantage of such provision for the benefit of students?**

The University does not provide this flexibility at present.

### **1.3 Curriculum Enrichment**

#### **1.3.1 Describe the efforts made by the Institution to supplement the University's Curriculum to ensure that the academic programmes and Institution's goals and objectives are integrated?**

To integrate the academic programmes and Institution's goals, the following initiatives are taken to supplement the University's curriculum:

- Conferences/seminars/guest lecturers, etc are being organized by inviting eminent persons from industries and reputed Institutions for updating the current happening in the Industries to the students. This will ensure the fulfillment of our Institutional goals, academic and employability objectives.
- Additional laboratory experiments apart from curriculum requirement are provided in various laboratories.
- Assignments are given on all the subjects (covering topics beyond syllabus) in addition to arranging tutorial class.
- Language lab facilities are utilized to inculcate good communication skill among students.
- Central Library is kept open beyond the college hours (i.e. up to midnight) .
- An internet browsing facility is provided, so that the students could access E-journals, downloading facilities accordingly.
- Various programmes/functions are being organized by respective Departments under student and staff association for all round development of the students.
- Educational tours are organized to develop intellectual activities, moral and Professional Ethics to create awareness about the rich tradition and Culture of our country.

#### **1.3.2 What are the efforts made by the Institution to enrich and organize the curriculum to enhance the experiences of the students so as to cope with the needs of the dynamic employment market?**

Being an affiliated Institution we are bound to follow the guidelines prescribed by the university. University does not allow modifying or organizing the curriculum.

- The Institution has provided the additional training and hands on practice on the topics which are required for the dynamic employment market.
- The Institution has formed a training and placement cell to fill the gap between academia and the industry.



- The cell invites industry experts for the expert lecture, seminar, workshop etc, time to time to update students and faculty members with the current affairs of the world.
- The Institution is the academic partner of many Labs like V-Labs of IIT Roorkee, IIIT Hyderabad, and Amrita University. These campus connect programmes provide Virtual Instrumentation Tech. to enrich its course as per the industry standard.
- Apart from the academic activity the students are sent for the industrial visit to get the practical sense of the education they are acquiring.

**1.3.3 Enumerate the efforts made by the Institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the curriculum?**

The Institution maintains a healthy environment and takes the necessary initiatives for the growth and development.

- The college regularly organizes events on women empowerment.
- There is a committee for anti sexual harassment in the institute.
- No discrimination among students in the campus.
- Courses like “Environmental Science” and “Environmental Engineering” are included as part of the curriculum.
- The college conducts various programs under NSS such as awareness programmes on Human Rights, Swachh Bharat Abhiyan and Blood Donation Camp.
- Regular workshops are conducted on Environmental education where experts from the concerned fields are invited to share their experiences.
- Institute has 40 MBPS internet facility in the campus through BSNL/AIRTEL.
- Staff rooms are facilitated with computers and Internet.
- Campus is having LAN with 1GBPS speed and is enabled with Wi-Fi.
- Spiritual and Moral Courses such as Yoga and sports activities.

**1.3.4 What are the various value-added courses/enrichment programmes offered to ensure holistic development of students?**

**Moral and ethical values**

- To ensure holistic development and to inculcate the moral and ethical values in to the life of students, the VTU has offered a subject on “Constitution of India and Professional Ethics”.
- Social service activities are organized in association with NSS unit and useful projects by final year students for surrounding areas and local people in a view to give awareness on various social, moral and ethical principles.

### **Employability and life skills**

- Pre placement training is the part of the curriculum provided by the Institution to its students to enhance the employability skill which is required by the industry.
- Institution also conducts personality and communication skill development program as a part of regular pre placement training.
- Institution supports its students to attend internship program provided by the industry.
- Students are also involved with responsibilities in organizing various events and activities such as cultural programmes, competitions etc. In this way they improve their team building, leadership and organizational skills.

### **Better career options**

- Conferences/seminars/guest lecturers, etc are organized and eminent persons from industries and reputed Institutions are called for updating the advanced technical aspects in the industries.
- The Institution has established a full fledged multidisciplinary research center to promote research activity among student and faculty members where various projects are self financed and funded by VTU/state government/Central government.
- Students are guided to take-up major/mini-projects in various industries so that employability objective goal could be reached.

### **Community orientation**

- Computer training programs are being organized in the college for the peoples of rural areas of this most back word region freely.
- The Institution always comes forward to contribute at the time of National (natural/manmade) disaster.
- NSS unit of the college participates in community services/development activities like organizing free health checkup camp, blood donation camps, plantation and swatch Bharat Abhiyaan etc.

### **1.3.5 Citing a few examples enumerate on the extent of use of the feedback from stakeholders in enriching the curriculum?**

- Institute organizes Alumni Meet in which feedback is collected and well established alumni's practical suggestions based on the technical skills are being considered leading to enrich the curriculum.
- VTU syllabus is compatible with industrial requirements at national/international level; therefore regular meetings are organized with nearby stakeholders and get their appropriate feedback which could help to enrich the curriculum.

**1.3.6 How does the Institution monitor and evaluate the quality of its enrichment programmes?**

- The training and placement cell conducts aptitude tests, group discussions on their training programmes to assess the effectiveness of training.
- Time to time, the experienced persons from the industries and the eminent persons from the reputed Institutions are invited to impart technical knowhow to the students and faculty so that the deep rooted zeal in the young minds of the future is inculcated.
- Feedback from stakeholders like parents, industries, university experts is also used on first priority for evaluation.
- One of the impacts of quality enrichment programmes is the assessment of analyzing the examination results and placement records.

**1.4 Feedback System****1.4.1 Is there a formal mechanism to obtain feedback from students and stakeholders on Curriculum? If 'yes', how is it communicated to the University and made use internally for curriculum enrichment and introducing changes/new programmes?**

Yes, the institute has a formal mechanism to obtain feedback from students and stakeholders which is communicated to the university and also implemented for teaching and learning process at BKIT in terms of BPMS system.

**The feedbacks obtained from the stakeholders are as under**

- **Student Feedback:** The student's feedback is obtained from first semester to eighth semester regularly.
- **Parent's Feedback:** The Parent's feedback is obtained during parent's teacher's meeting (PTM) as well as during the orientation programmes every year.
- **Industry Feedback:** Institute placement cell is constantly in touch with the reputed industries and seeking their advice as a feedback to enhance the employability skill which is required by the industry.
- **Staff feedback:** Faculty shares their experience and gives feedback at the faculty meetings in departmental level and that is communicated to the Board of Studies to enhance the curricular contents.
- **Alumni Feedback:** Whenever institute organizes Alumni Meet, feedback is collected from alumni and is gone through with a view to enhance the various aspects. Alumni feedback has been used to review and revise the learning outcomes and communicated to the VTU to incorporate changes in curriculum and introduction of new courses.

**1.4.2 How many new programmes/courses were introduced by the Institution during the last four years? What was the rationale for introducing new courses/programmes?**

The following are the new courses introduced during the last four years.

Sl. No	New Programmes/Courses Introduced	Programme	Year	Intake
01	Digital Communication and Networking – E & CE	M.Tech.	2013	18
02	Computer Science Engineering – CSE	M.Tech.	2013	18
03	Electronics and Communication Engineering	Ph.D.	2014	As per Norms
04	Ph.D. Department of Physics	Ph.D.	2014	
05	Ph.D. Department of Chemistry	Ph.D.	2014	
06	Ph.D. Department of Mathematics	Ph.D.	2015	

The new Courses/Programmes are introduced

- To impart diversified knowledge to the society.
- To develop the manpower in the specialized streams of engineering.
- To fulfill the rural/urban needs at national and international industry levels and as well as socio-ethical needs.
- To encourage research & development programmes.
- To develop the center of excellence in related areas.

**1.4.3 Any other relevant information regarding curricular aspects which the college would like to include.** –

--- NIL ---

## **CRITERION II: TEACHING - LEARNING AND EVALUATION**

### **2.1. Student Enrollment and Profile**

#### **2.1.1. How does the college ensure publicity and transparency in the admission process?**

**Publicity in media:** Started in the year 1982 under **Shanti Vardhak Education Society Bhalki**. The institute is one of the most prestigious institutes in north Karnataka region. BKIT celebrated its silver Jubilee in the year 2007 which was widely publicized in the electronic and print media. From time to time its achievements and activities have been published in the News Papers. There is sufficient awareness about the institute and its activities to the public at State and National level.

**Alumni:** The Institute has a strong Alumni network working in all dimensions of engineering, business, and government organizations etc. The alumni are one of the major publicizing sources.

**Website:** The college website, [www.bkitbhalki.org](http://www.bkitbhalki.org), presents information about the institute, its infrastructure, vision, mission policies, courses, faculty, activities, location, affiliation, tie ups, library, placement and transport facilities.

**Admission Committee:** College has an Admission Monitoring Committee (AMC). College publicizes the details of admission by putting banners in prominent places of Bidar district, Kalaburgi and Latur Maharastra. Admission Monitoring Committee arranges Carrier Guidance Meet for parents & their wards. On this occasion information regarding admission procedures, intake of different programme and important dates of admission process are provided to them. It also arranges for admission counselling of students by sending faculty members to various colleges and Karnataka Common Entrance test (KCET) centers.

**Information Brochure:** The Institute's Brochure contains information of departments, faculty, infrastructure, placements, achievements etc which also provides guidelines for admission seeking candidates and their parents. The Institute strictly adheres to the norms of AICTE/ State Government and its affiliating University, VTU for admitting students. Undergraduate Candidate's admission to the Institute is through Common Entrance Test (CET) of Karnataka Examination Authority (KEA), Consortium of Medical, Engineering, and Dental colleges of Karnataka (COMED-K) and Management Quota. Postgraduate students and research students are admitted through PGCET, KMAT, CMAT and VRAT.

Seats allotted through counseling of KEA, COMED-K are admitted to the institute as per the norms of Visvesvaraya Technological University, Belagavi. Complete transparency is maintained in the admission process.

**2.1.2. Explain in detail the criteria adopted and process of admission (Ex. (i) merit (ii) common admission test conducted by state agencies and national agencies (iii) combination of merit and entrance test or merit, entrance test and interview (iv) any other) to various programmes of the Institution.**

**Admission to Undergraduate Programme for 1st year:** Fifty five percent of the students are admitted through the Common Entrance Test conducted by Karnataka Examination Authority. Twenty percent of the admissions are through the entrance test conducted by Consortium of Medical, Engineering and Dental colleges of Karnataka (COMED-K). The rest twenty five percent of the admissions are through Management Quota.

**Admission through KEA:** A candidate who has passed the qualifying exam (Q.E.) with Physics and Mathematics as compulsory subjects along with Chemistry / Bio-Technology / Biology / Electronics / Computer Science as optional subjects with English as one of the languages of study and obtained an aggregate minimum of 45% marks in the optional subjects in the Q. E. is eligible for Engineering / Technology courses; 40% of marks in Q. E. in case of SC, ST, Category-I and OBC Category candidates. Provided that, the marks obtained by the candidate in Bio-Technology / Biology / Electronics / Computer Science in the Q. E., will be considered in place of Chemistry, in case the marks obtained in Chemistry is less for required aggregate percentage, only for the purpose of determination of eligibility and not for the purpose of determination of rank, in respect of Engineering/ Technology courses. Based on the performance of the candidates in Physics, Chemistry and Mathematics subjects in both Common Entrance Test and the Qualifying Examination by taking the marks in equal proportions, the Engineering rank list will be prepared and published.

**Admission through COMED-K:** Both Karnataka and Non-Karnataka candidates are eligible for admission under this quota. The qualifying examinations prescribed for admission for B.E. is second PUC or 10+2, Higher Secondary or equivalent examination recognized by State / Central Government; the last two years of study shall comprise of Physics, Chemistry and Mathematics with English as a compulsory subject. The General Merit candidates should have passed with a minimum aggregate of 45% marks (40% in respect of SC, ST and OBC candidates of Karnataka State in Physics, Chemistry and Mathematics) and should have passed these subjects individually. Physics and Mathematics are compulsory subjects along

with Chemistry or Bio Technology or Biology or any other technical vocational courses as one of the optional subjects. However, changes, if any, in the eligibility criteria by the AICTE will be adopted.

**Admission through Management Quota:** Twenty five percent of the sanctioned intake is through this quota. Candidates who satisfy KEA eligibility criteria are eligible to be admitted under management quota.

**Admission to Post-Graduate courses:** For admission to M. Tech course, candidates need to qualify GATE or PG CET examination conducted by KEA. Candidates with a B.E/B. Tech degree in the relevant discipline with at least 50% marks in aggregate are eligible.

**Admission to MCA:** Admission is only through competitive entrance tests KMAT/PGCET. Candidates who have passed a 3 year bachelor's degree from a recognized university with not less than 50% of the marks in aggregate of all the years of the degree examination with Mathematics/ Statistics/ Computer Science/ Computer Programming/ Computer Applications/ Business Mathematics/ Business Statistics as one of the optional subjects/ electives at degree level are eligible. In case of candidates from Karnataka belonging to SC/ST and Category-1, 45% of the marks in that subject are eligible for admission. 50% of the seats are filled by KEA through counseling and remaining 50 % seats are filled under management Quota as per the guidelines of KEA and VTU.

**Lateral entry to MCA :** Student who have completed Bachelor degree of minimum three year duration in BCA, B. Sc. (IT/CS) with mathematics as a course at 10+2 level or graduate level are eligible for admission to second year MCA course. Maximum 20% of sanctioned intake can be admitted through lateral entry. The candidate seeking admission under this scheme must qualify the entrance test conducted by KEA.

**Admission to Ph.D:** College has University Recognized Research Centers for Electronics and Communication Engineering, Physics, Chemistry and Mathematics. .Candidates are required to qualify VRAT examination conducted by Visvesvaraya Technological University.

**Admission to IIInd year UG programme through Lateral entry:** The candidate must have passed diploma in appropriate branch of engineering securing minimum 45% marks in the final year examination (fifth and sixth semesters) in the appropriate branch of engineering. Provided that, in case of SC/ST and OBC candidates from Karnataka the minimum marks for eligibility shall be forty percent (40%). 10% of the sanctioned intakes are filled through lateral entry by DTE.



**2.1.3. Give the minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the institute and provide a comparison with other institutes of the affiliating university within the city/district.**

The minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the institute and a comparison with other institutes of the affiliating university within the city/district is as follows:

**Table No.2.1 Percentage marks at entry level for each programme**

**UG Programme:**

Sl. No.	Program	Academic year	Minimum CET rank of admitted students	Maximum CET rank of admitted students	Min Marks and Max Marks of Students of colleges affiliated to university within the city/district
1	Civil Engg.	2015-16	15944	110980	No engineering college within the city
2	Mech. Engg.		15758	111802	
3	E & CE		10931	126295	
4	Comp. Sc.		22101	129710	
5	Chemical		42560	129771	
1	Civil Engg.	2014-15	11150	95105	
2	Mech. Engg.		17509	96051	
3	E & CE		6163	122639	
4	Comp. Sc.		20262	122085	
5	Chemical		20126	119304	
1	Civil Engg.	2013-14	10010	86546	
2	Mech. Engg.		16003	84129	
3	E & CE		11109	91428	
4	Comp. Sc.		11635	110107	
5	Chemical		26904	111481	
1	Civil Engg.	2012-13	18216	77831	
2	Mech. Engg.		20982	81237	
3	E & CE		10994	78137	
4	Comp. Sc.		26563	83440	
5	Chemical		36974	77675	

**PG Programme:**

Sl.No	Program	Academic year	Minimum CET rank of admitted students	Maximum CET rank of admitted students
1	Civil Engg.	2015-16	9915	14444
2	E & EC		3609	7710
3	Comp. Sc.		7127	10645
4	MCA		4130	12323
1	Civil Engg.	2014-15	15361	20468
2	E & EC		6656	17703
3	Comp. Sc.		5706	20719
4	MCA		341	4300
1	Civil Engg.	2013-14	1589	20843
2	E & EC		8194	17917
3	Comp. Sc.		4086	17925
4	MCA		2062	4512
1	Civil Engg.	2012-13	17301	19760
2	E & EC		-	-
3	Comp. Sc.		-	-
4	MCA		436	4894

**2.1.4 Is there a mechanism in the institution to review the admission process and student profiles annually? If yes, what is the outcome of such an effort and how has it contributed to the improvement of the process.** Yes

The highest and the lowest ranks in all categories (GM, SC, ST, CAT-1, CAT-IIA, CAT-IIB, CAT-IIIA, CAT-IIIB and COMED-K) for all programs are reviewed to analyze the variation in the quality of students joining the institute. It is an indicator of the student's preference to the institution over other institutions in the region and the steps that need to be taken to further improve its position.

Although the admission process is governed by the state government and is not in the control of the institution, the student profiles are studied by the core team of the college. Accordingly, strategies are designed to improve admission position. For example improving the pass percentage of the students at first year level- majority of the students taking admission to the institution are from a rural background. It is difficult for these students to understand the concepts and to write answers to the questions asked in the examination. Through the review process many initiatives such as, study hour, chapter wise tests, preliminary examinations, etc. are planned and conducted. Such initiatives have helped in bringing improvement of admitting students' profiles.

**2.1.5 Reflecting on the strategies adopted to increase/improve access for following categories of students, enumerate on how the admission policy of the institution and its student profiles demonstrate/reflect the National commitment to diversity and inclusion**

- \* **SC/ST**
- \* **OBC**
- \* **Women**
- \* **Differently- abled**
- \* **Economically weaker sections**
- \* **Minority community**
- \* **Any other**

**SC/ST and OBC:** Benefits are provided to the weaker sections of society as per the policies of state government. Students belonging to the SC/ST/OBC categories are admitted as per the norms of the State government. SC/ST students are provided with scholarship or fee reimbursement.

**Women:** There is a large women student population in the campus and the institute is gender unbiased.

**Different categories of Persons with disabilities:** Persons with disabilities are provided special attention and care in the institute.

**Economically weaker sections:** Financially weaker students are supported with Scholarships.

**Outstanding achievers in sports and extracurricular activities:** Institute offers excellent facilities and opportunity for students excelling in sports and extracurricular activities.

**2.1.6 Provide the following details for various programmes offered by the institution during the last four years and comment on the trends, i.e. reasons for increase/decrease and actions initiated for improvement.**

Following Table No.2.2 shows statistical admission data for last four years.

**Table No.2.2 Statistical admission data for last four years**

Sl. No.	Programmes	Year	No. of seat sanctioned (Intake) 'A'	Number of Seats filled (admitted) 'B'
<b>UG</b>				
1.	Civil Engineering	2012-2013	126	122
		2013-2014	132	120
		2014-2015	129	120
		2015-2016	126	125
2.	Computer Science and Engineering	2012-2013	126	82
		2013-2014	126	94
		2014-2015	125	89
		2015-2016	126	84
3.	Electronics and Communication Engineering	2012-2013	126	110
		2013-2014	189	154
		2014-2015	189	108
		2015-2016	189	101
4.	Mechanical Engineering	2012-2013	126	126
		2013-2014	189	88
		2014-2015	189	176
		2015-2016	189	172
5.	Chemical Engg.	2012-2013	32	16
		2013-2014	32	15
		2014-2015	32	13
		2015-2016	32	20

<b>PG</b>					
1.	Civil Engineering	2012-2013	GTE	18	07
			WRM	18	02
		2013-2014	GTE	18	16
			WRM	18	03
		2014-2015	GTE	18	09
			WRM	18	02
		2015-2016	GTE	18	12
			WRM	18	03
2.	Computer Science and Engineering	2012-2013	-	-	-
		2013-2014	SCS	18	18
		2014-2015	SCS	18	14
		2015-2016	SCS	18	02
3.	Electronics and Communication Engineering	2012-2013			
		2013-2014	DCN	18	18
		2014-2015	DCN	18	16
		2015-2016	DCN	18	03

4.	MCA	2012-2013		60	27
		2013-2014		60	35
		2014-2015		60	29
		2015-2016		60	01

The admission to various courses in our institution mentioned above indicates that there is no much change in the demand ratio. The slight decrease in admission in some of the courses is believed to be due to the following reasons.

- The overall intake to Engineering colleges in Karnataka has increased.
- Our institution is located in backward Taluka.
- Increase in the trends of the students moving towards capital city.
- The intake to most of the engineering colleges in the vicinity of our institution has increased remarkably.
- One state government engineering college has come up in this region.
- Decline in campus recruitments.

The matter was taken seriously and the following remedial measures were taken.

- Fee concession/waiver for highly meritorious students.
- Strengthening Training & Placement activities.
- Providing transportation from college to nearby town/city with concessional rates.

## **2.2. Catering to Student Diversity**

### **2.2.1. How does the institution cater to the needs of differently-abled students and ensure adherence to government policies in this regard?**

Policies adopted by Govt. of Karnataka/AICTE/VTU for differently-abled students are strictly followed. In addition, the differently-abled students are provided special care and attention. There are no architectural barriers so that the differently-abled students find any difficulty for their day to day functioning. All blocks of the institute are located close-by, are interconnected and provided with lift facility for easy access of classroom, laboratory and library. Institute believes in their empowerment through suitable placements. Mentorship in the institute ensures proper counseling and career guidance.

### **2.2.2. Does the institution assess the students' needs in terms of knowledge and skills before the commencement of the programme? If yes, give details on the process.**

Yes, the Institute assesses the student's needs before the commencement of the programme. At the beginning of first year Institute conducts tests on basic sciences & mathematics to evaluate the knowledge & skills of the student in related areas. Based on the performance and feedback, concerned faculty plans the teaching process also faculty offers special preparatory programs as per the requirements of the students.

### **2.2.3. What are the strategies adopted by the institution to bridge the knowledge gap of the enrolled students (Bridge / Remedial Add-on / Enrichment Courses, etc.) to enable them to cope with the programme of their choice?**

Majority of the students getting admitted to the institute are from rural background and have major deficiency in medium of learning which is English. As learning of English is mandatory in the programme, hence it is incorporated as a regular class in 1st year time table, also to elaborate English language lab with interactive English learning software is installed. The lab is multimedia enabled and plays major role in upgrading English competency of our students. The additional remedial, tutorial classes and study hours are also added within the time table so as to provide the extra classes for better understanding of the subjects.

Lateral entry students have major issue with Engineering Mathematics, due to which their performance degrades. Hence remedial bridge class in Engineering Mathematics is organized for these students so as to upgrade their mathematical skills. Also university has prescribed additional Engineering Mathematics courses (MATDIP301 and MATDIP-401) to these students specially designed to enrich their knowledge in Engineering Mathematics.

Subjects of various branches in 2<sup>nd</sup> year are slightly tough due to the fact that engineering concepts are introduced only from 2<sup>nd</sup> year onwards. Therefore additional remedial, tutorial classes and study hours are added within the time table for these subjects. Students from other States are motivated to learn the State language Kannada so that they get some competency in communicating in the local language. A qualified Kannada Teacher is appointed for the same. The study involves basic and advanced courses in Kannada.

**2.2.4. How does the institute sensitize its staff and students on issues such as gender inclusion, environment etc.?**

There is no bias, what so ever based on caste, creed, gender etc., in any activities of the Institution. Equal opportunities are provided to all eligible individuals to participate in any of the academic / extracurricular, co-curricular activities.

The college organizes seminars, webinars and talks on various current, societal issues to sensitize the students about environment. These include maintaining cleanliness in the college campus and surroundings, save water, save electricity etc. Also our college observes 'World Environment Day' every year on 05<sup>th</sup> of June. We have a very active NSS unit which regularly organizes awareness programs on environmental issues. Women's Grievance Committee is formed for the security, welfare and grievance redressal of women as per the instructions of Director of Technical Education. The committee is active in the institution which looks into the grievances of women and endeavors for a safe and secure women friendly atmosphere in the institution. Moreover conference on Women Empowerment (WE) is also carried out periodically by WGC.

**2.2.5. How does the institution identify and respond to special educational/learning needs of advanced learners?**

Advance learners are identified through their performance in unit tests, university exams & oral interaction in class room and laboratory. Their fundamental knowledge, concept understanding and analytical skills etc. are identified & special measures are taken to cater to their learning needs & their skills. This contributes to their academic and personal growth.

- Institute provides free book facility from dept. library for technical and other competitive examinations.
- The institute library subscribes to journals and e-Books and access is provided to the students.
- Students with research interest are provided opportunity to work with faculty on their research work and they are motivated to get the financial assistance from various funding agencies.
- Students are also given an opportunity to work on live projects in both government and non-government firms.
- Students are encouraged to publish their work and also to present it in conferences.



- They are encouraged to read journals available in the institute.
- The leadership and team building skills are nurtured and groomed through organization of programs, conferences, seminars etc. conducted regularly by all departments.
- Institute organizes competitions at departmental, inter-departmental, inter college, state and national levels for students.
- Students are encouraged to take up competitive exams.
- Competitive guidance books for GRE, GATE, CAT, MAT, GMAT, TOFEL, UPSC civil services Examinations etc are maintained in Library.
- Resource persons from industries and academic institution are invited to deliver guest lectures on the advanced topics for the benefit of the students.

**2.2.6 How does the institute collect, analyze and use the data and information on the academic performance (through the programme duration) of the students at risk of drop out (students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc. who may discontinue their studies if some sort of support is not provided)?**

- Institute evaluates the performance of students regularly through unit tests, University exams, etc. Based on their performance, students at risk of drop out are identified and special measures are taken to cater to their learning needs and skills.
- If a student does not attend classes regularly, class coordinator/mentor make phone calls to the parents of such students and insists them to make their ward to attend the classes regularly.
- Parents of such students are also counseled to ensure support to the student.
- Counselling is done through mentors & they are motivated to complete the course with flying colors.
- For the students who underperform in the final examinations, special remedial classes are conducted for improving their performance.
- Free hostel accommodation is provided for economically weaker students during the exam period.
- In addition to ensuring adherence to government policies in respect of admission to the programme, support is extended by the institute to cater to the needs of differently abled students in the following manner:

- Seats are reserved in the college buses for students who are differently abled. Facilities for ease of mobility such as lift, hand railings, etc. are provided.
- In the classrooms the seating arrangement is made in order to provide ample legroom and comfort.
- The amenities such as toilets are constructed for ease of access to these students in every corner of the building.

### **2.3. Teaching Learning Process**

#### **2.3.1. How does the college plan and organize the teaching, learning and evaluation schedules? (Academic calendar, teaching plan, evaluation blue print, etc.)**

Before the commencement of Academic Year, well planned academic calendar is prepared by taking inputs from stake holders, faculty and administration. Such calendar has provisions and schedules for the following:

- Teaching plan of the subjects is prepared in tune with the Academic Calendar by the faculty.
- Dates of conduction of Unit tests, Lab tests and result declaration are also a part of academic calendar.
- Industrial visits and other curricular activities including the R&D events, Technical events and professional chapter events are planned at the beginning of the academic year.
- Various committees are constituted for executing, monitoring and ensuring the teaching, learning and evaluation schedules and coordinators are appointed viz. Class Coordinators, Time-Table In-charge, Industrial Visit Coordinator, project incharge, mentors, etc.
- Weekly departmental meetings are taken to review the teaching, learning and evaluation schedules.

#### **2.3.2. How does IQAC contribute to improve the teaching –learning process?**

Institute has constituted the IQAC. It contributes as follows:

Every month, IQAC gets the information from Institute, about the academics coverage, evaluation of results, Co-Curricular and extracurricular activities organized, any special activities carried out, research activities, students and other stake holder feedback about academics and administrative processes. Using this information, IQAC takes review of existing teaching learning process and related infrastructure. If required it organizes meetings

with Principal, HODs and management nominees. This enables IQAC to suggest improvement in teaching learning process. IQAC also takes the review of University, AICTE and statutory guidelines about teaching learning process. It also interact with renowned research Institutes like IISc, IIT and Industries and get the best practices and shares the same with students and faculty.

It also regularly reviews novel teaching learning methods like active and collaborative learning and takes efforts to implement the same. IQAC submits the detailed report on teaching learning process and suggests the improvement for the same.

### **2.3.3. How learning is made more students centric? Give details on the support structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students?**

- Learning is made more students centric by following outcome based education. Keeping in line with the above statement, Programme Educational Objectives (PEOs), Program Outcomes (POs) and Course Outcomes (COs) are defined for each of the courses and programs.
- Industrial visits and guest lectures by industrial persons are also arranged to make the students aware of the contemporary issues of the industry.
- Every initiative/ activity planned in the Institute is ensured to either create a new learning avenue to students or enhance the existing. Modern technical infrastructure such as video conferencing facilities, modes of teaching such as the LCD projectors, smart boards etc ensure interactive teaching methodologies. Students are encouraged to be participative in classroom to enhance the interaction.
- Students are encouraged to organize technical, co-curricular and extra-curricular events.
- Project works, Group Discussions, Industrial visits, etc. ensure the collaborative participation of students.
- There are multiple avenues available in the system to the teachers for ensuring independent learning of the students.
- College is having the facility of NPTEL wherein the student can learn the subject from various experts across the country.
- Library is open for students from 09:00 am to 12:00pm (till midnight),
- Library is equipped with about 65000 volumes, e-journals, personality development books, magazines, etc which provide ample opportunity to the students for

independent learning.

- In addition to the above, classes are organized in the campus to develop soft skills.
- Students spend about 15 days time in the industry for vocational training resulting in independent learning.
- The entire campus is connected through Wi-Fi.
- With the result, students get an opportunity for independent learning. Further, students' independent learning is ensured through project and self learning courses encouraging the students towards lifelong learning.

#### **2.3.4. How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators?**

The institution nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators in the following manner:

- It is almost mandatory for engineers to think critically on industrial problems. The curriculum of the course ensures critical thinking of the students. In addition to the curriculum, institute has created a multitude of opportunities to the students.
- Creativity is nurtured through the co-curricular and extra-curricular activities. Technical, non –technical and literary events are a part of the Academic Calendar and are implemented meticulously. Students who organize and participate in such events will get enormous opportunity to exhibit and improve their creativity.
- Institute has signed MoUs with enterprises such as Preva Systems, Bangalore, MEDINI Bangalore, SPHR solutions pvt Ltd, Mumbai, etc.
- When the problems cease to be hypothetical and real, students are motivated to push their boundaries of critical thinking. There are student chapters of professional bodies such as ISTE to further align the students towards critical thinking.
- Scientific temper is instilled in the students from the beginning of the course.
- Students are given opportunity to work on sponsored projects.
- Lectures and student interaction sessions are arranged from time to time.
- Financial assistance is provided for the project work for nurturing the scientific tempo of the students.

**2.3.5. What are the technologies and facilities available and used by the faculty for effective teaching? E.g. Virtual laboratories, e-learning - resources from National Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NME-ICT), open educational resources, mobile education, etc.**

In addition to the traditional chalk & talk approach, faculty members use innovative technologies & facilities such as e-learning resources from National Programme on Technology Enhanced Learning (NPTEL), working models, open course ware from national and international universities like IIT, NIT etc., animation videos which explains the process etc. for effective teaching. In addition, EDUSAT programme, virtual labs, Multimedia for various skills development are used. ICT tools such as SMART board with data storage is used. In addition to the above, college provides the following facilities:

- The entire campus is connected with hi speed Wi-Fi.
- Classrooms are provided with LCD projectors and Smart Boards.

**2.3.6. How are the students and faculty exposed to advanced level of knowledge and skills (blended learning, expert lectures, seminars, workshops etc.)?**

Institute organizes expert lectures, seminars, conferences, workshops at regular intervals to expose students and faculty to advance level of knowledge and technology. Institute deputed faculty for academic enhancement programs, Quality improvement programmes, Conferences, Seminars and Workshops by providing financial assistance and also on-duty leave.

Institute organizes programmes and competitions like Gaming, C-programming Contest and Model Making Contests like ROBOTECH to expose and motivate students towards beyond syllabus learning. Through professional society chapters like ISTE, IETE, institute organizes students' events in order to bring awareness about advanced technology.

Training and Placement Cell that identifies need based training programme for the students.

- Students are encouraged to attend workshops and seminars conducted at the institute and other colleges.
- During the planning for the academic year, provision is made for one Faculty Development Programme (FDP) per branch per semester of one week duration at least seven days.

- In addition to the above, each department plans and organizes at least one seminar/workshop per semester.
- Faculty members are supported financially for attending conferences and workshops at both national and international level.
- Expert guest lectures for students and faculty are also conducted as a part of curriculum by the Institute.

### **2.3.7. Detail (process and the number of students benefitted) on the academic, personal and psycho-social support and guidance services (professional counselling /monitoring/academic advise) provided to the students?**

All the students of the college get benefitted from academic, personal and psycho-social support and guidance in the following manner:

#### **Local Guardian (Mentorship)/Proctor:**

- A group of 20-25 students are allotted to one Local Guardian.
- For the first year students, the LG scheme is monitored by Allied Science Department. From second year onwards respective departments will look after.
- Once in every week every Local Guardian conducts a meeting with his/her allotted students and discuss the problems that students are facing.
- Local guardian motivates the students under his/her supervision, and takes care of student's development. He acts as a friend, philosopher and guide to students. And also guides the students on all fronts and makes the students get involved in activities for their development.
- Students who need academic, personal, career and psycho-socio assistance can easily approach their local guardian.

#### **Class Coordinators:**

- Each class has a Class Coordinator (CC).
- CC will keep track of the academic performance of the students and send the progress report of the students to the parents for all internal assessment tests and also the semester examination.
- CC will also monitor the attendance of the students in their class. If any student lags or shows deviation in his/her academic and attendance, the students will be counseled and appropriate actions are initiated.
- Students who require any personal guidance approaches the CC for assistance to overcome their difficulties.

### Head of the Department (HOD)

- Head of the Department conducts meeting once in a week with the local Guardians, Class Coordinators and gets the feedback.
- He/she also conducts meeting with the students to motivate them.

### Student Welfare officer (SWO)

- For the whole institute, SWO acts as a local guardian and Counselor for students.
- Students with severe problems can approach dean, whose problems cannot be solved in department level.

### Counselor (External)

- Institute also has external counseling facility by appointing a doctor/ psychological counselor.
- Students are counseled for anger, anxiety and stress management.
- NSS unit organizes periodically special talks/lectures on how to manage stress.

### 2.3.8. Provide details of innovative teaching approaches/methods adopted by the faculty during the last four years? What are the efforts made by the institution to encourage the faculty to adopt new and innovative approaches and the impact of such innovative practices on student learning

To have the teaching more effective, the following innovative teaching approaches are adopted by our faculty:

- Staff makes use of smart classrooms in an optimum manner he/she utilizes LCD projector and smart boards, interactive panels for teaching in the classrooms.
- Staff uses e-resources such as NPTELs, open course ware for better content delivery.
- Virtual lab facility is provided to the students and staff.
- EDUSAT sessions are provided to the students.
- Institute made considerable efforts in this direction by providing the required support and systems to the faculty to adopt new and innovative approaches of teaching like:
  - Faculty is provided Laptop / Desktop with Internet (Wi-Fi) facility, and to download lectures, study materials etc.
  - Institute has provided several smart classrooms & many more to come up within short



span of time in the near future.

- Faculties are also encouraged to undergo innovative Teaching learning programs like Mission 10X training, etc.

### **2.3.9. How are library resources used to augment the teaching-learning process?**

College library has a collection of 18389 titles and 65000 volumes. In addition to these, library has subscribed to 2500 e-journals packages- IEEE, KNIMBUS, ASCE, Elsevier, Proquest, Science Direct, Springer, Taylor & Francisco. Digital library, 100 journals hardcopy is available. In addition:

- Working hours are flexible for the convenience of students.
- There are large number of books for GATE, and various competitive examinations.
- All students are issued required number of text books through book bank.
- It provides services Round-the clock and there is open access facility.
- Reprographics as well as printing facility is also available in the library.
- E-library access is provided to the students to access the pdf copies of reference books.
- E-journals access is provided to students and faculty.
- Each department also has a departmental library. This facility is used by the students and faculty.

### **2.3.10. Does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If 'yes', elaborate on the challenges encountered and the institutional approaches to overcome these.**

Institute takes adequate care while planning and designing the Academic Calendar. Teachers make their teaching plan in tune with the same. Measures are taken for deviations from the teaching plan and academic calendar, if any, are compensated within the same week. Weekly review by the Head of Department (HOD) and monthly review by Principal are taken to keep track of the curricular activities as per plan.

### **2.3.11. How does the institute monitor and evaluate the quality of teaching learning?**

- The institute's quality of teaching learning is monitored and evaluated by the members of Academic Monitoring Committee (AMC). The committee evaluate both the academic and administrative aspects of all the departments and suggest remedial

measures for improvement to boost the working culture of the department and thereby improving the quality of teaching and learning.

- Feedback is sought from the students by HOD, Principal and Academic Monitoring Committee (AMC). Necessary corrective measures are taken through feedback review meetings in the presence of concerned subject teachers, class coordinator, HOD and Principal. The Heads of the department conducts class coordinators meeting to know the quality and progress of teaching and collects feedback on each subject.
- HOD, Vice Principal checks the subject file and teaching plan of the teachers to make sure there are no lacunae in the same. Review meetings related to quality of teaching-learning including 100% syllabus coverage up to the satisfaction of the students are taken in HOD meeting.
- Quality of teaching is also assessed by the Principal at random during their lectures. Quality of teaching is evaluated through the University exam results of the students and stringent measures are taken in order to improve the performance.

## **2.4. Teacher Quality**

**2.4.1. Provide the following details and elaborate on the strategies adopted by the college in planning and management (recruitment and retention) of its human resource (qualified and competent teachers) to meet the changing requirements of the curriculum.**

**Table No.2.4.1 Qualified Teachers**

Highest qualification	Teaching faculty						TOTAL
	Professor		Associate Professor		Assistant Professor		
	M	F	M	F	M	F	
Permanent							
D.Sc./D.Litt.	-	-	-	-	-	-	-
Ph.D.	11		08		02	01	22
M.Phil.	--	--		--			
PG	05		19	01	88	28	141

### **Recruitment strategies**

All appointments of the institute are made as per the Service Rules of Shanti Vardhak Education Society Bhalki. Staff requirement for each department is collected well in advance by the office of the Principal and are notified in leading Kannada and English news papers.

The application forms received from the candidates are scrutinized by a committee comprising the department head and other faculty members. Selected candidates are interviewed by a selection committee comprising of members from management, Principal, Vice-Principal, Registrar, HOD and external subject experts. Selected candidates are informed by sending appointment orders through post, telephone and email. Candidates are informed by sending appointment orders through post.

### **Retention strategies**

To retain the faculty, following strategies are adopted by the institute;

- Institute provides latest AICTE pay scales to its entire faculty along with statutory allowances.
- Institute has adopted standard policies / norms for increments and promotions.
- Institute has policies towards sponsoring faculty for higher studies.
- Institute deputed faculty with financial assistance to attend National / International conferences, workshops, seminars, symposiums etc.,
- For deserving candidates Institute provides financial assistance to publish papers in national/international journal with high Impact factors.
- Maternity Leave is sanctioned to eligible faculty as per Institution norms.

**2.4.2. How does the institution cope with the growing demand/ scarcity of qualified senior faculty to teach new programmes/ modern areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics etc.)? Provide details on the efforts made by the institution in this direction and the outcome during the last three years.**

- For improving teaching/learning resources, teaching skills and to face the growing dearth of experienced teachers, faculties are encouraged to undertake summer / winter school for respective subjects.
- Capacity building programs and faculty improvement programs are also organized by our institution to improve teaching skills and to keep abreast of knowledge in latest developments for diverse subjects. We have comfortable range of senior faculty for teaching.
- Faculties are encouraged to participate in National/International Conference/Seminars, FDP, workshops etc to improve and enrich the capacity.
- For modern and emerging areas of study in Nano Technology and Information Technology, resource persons from reputed institutions are invited to give guest

lecturers to improve the knowledge and skills.

- Retired Professors from reputed universities, Scientists from Research Organizations are inducted as adjunct and distinguished professors for expert guidance.

**2.4.3. Providing details on staff development programmes during the last four years elaborate on the strategies adopted by the institution in enhancing the teacher quality.**

**a) Nomination to staff development programmes**

**Table No.2.4.3 a) Nomination to staff development programmes**

Academic Staff Development Programmes	Number of faculty nominated			
	2012-13	2013-14	2014-15	2015-16
Refresher courses	-	-	-	-
HRD programmes (FDP)	34	16	11	07
Orientation programmes	01	-	-	-
Staff training conducted by university/college	148	147	68	78
Staff training conducted by other institutions	30	43	19	28
Summer / winter schools, workshops, etc.	144	174	76	99

**b) Faculty Training programmes organized by the institution to empower and enable the use of various tools and technology for improved teaching-learning**

- Teaching learning methods/approaches
- Handling new curriculum
- Content/knowledge management
- Selection, development and use of enrichment materials
- Assessment
- Cross cutting issues
- Audio Visual Aids/Multimedia
- OER's
- Teaching learning material development, selection and use

Details of the faculty training programmes organized by the institution to empower and enable the use of various tools and technology for improved teaching learning are as mentioned below:

**Table No.2.4.3 b) Faculty Training Programmes organized in last four years**

Sl. No.	Name of the Conference etc., organised	Date & Month	Source of Financial Support	No. of Participants
<b>2012-13</b>				
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>6</b>
1	One Day FDP on “Microelectronics and Circuits”	18/02/13	BKIT, Bhalki	117
2	Two days national workshop on “Recent Research trends in communication and networking (RRTCEN-13)”	15/03/13 to 16/03/13	BKIT, Bhalki	50
3	Two days National Level Workshop on “Introduction to LaTeX and its Application for Manuscript Preparation-2013”.	22/03/13 to 23/03/13	BKIT, Bhalki	120
4	Two days national level faculty development program	23 and 24 Feb. 2013	Registration Fee	80

Sl. No.	Name of the Conference etc. organized	Date & Month	Source of Financial Support	No. of Participants
<b>2013-14</b>				
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>6</b>
1.	Mech. Mantra 2013 , 3 day national level symposium ( students)	14 to 16 May 13	Self finance	250 students
2.	One day seminar on Recent trends in advance CATIA	29 Sept 2013	Self finance	120
3.	One week work shop on CFD and Multibody dynamics	19March 14	Self finance	130
4.	National conference on Recent Advances in Science & Technology (NCST-2014)	22 & 23 March 14	Through Registration	250
5.	Five Day Winter School on “Recent Innovations in HDL and Microprocessor”	21-25 Jan 14	Through Registration	87
6.	Two Days National Workshop on “Advances in Communication”	4-5 April, 2014.	Through Registration	127

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7.	Hands on Network Implementation	09 & 10 Mar 14	Self	140
8.	National Level Two Days Workshop on “Research Methodology”	18 & 19 Mar 14	Self generated	109
9.	National Conference on Recent Trends in Management & Technology (NCMT-13)	5 & 6 Apr 13	Registration of Participants	120

Sl. No.	Name of the Conference etc. organized	Date & Month	Source of Financial Support	No. of Participants
<b>2014-15</b>				
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>6</b>
1	3 days national level work shop on “Earthquake Resistant Practices in Civil Engg. ERPCE - 2015	9 to 11 Mar 15	MoES	56
2	Advances in Implementation of Computer Network	24 - 26 Jul 14	Self	25
3	Web Design	22 to 24 Aug 14	Self	55
4	One week summer school on recent practices in CAE and Automation	11 - 15 Apr 14	Self	197
5	Faculty development Program on Recent development in Renewable Energy –FUTURE ENERGY	18 - 22 Sept 14	Self	221
6	National Conference on Recent Innovations in Engineering & Tecnology-2014(NCRIET-2014) held at BKIT, Bhalki,	3 & 4 May 14	Self	270
7	FDP on Future Recent Trends & Innovations in Information Communication & Technology	8 to 11 May 14	Self	65
8	Three days work shop on “Advances in Network Simulator Tools” (ANST-2014)	31 Jul to 02 Aug 14	Self	56

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Sl. No.	Name of the Conference organized	Date & Month	Source of Financial Support	No. of Participants
<b>2015-16</b>				
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>6</b>
1	Three days National level work shop on Geo spatial technologies	9 to11 Oct 15	SELF	68
2	Five days National level work shop on B.I.M.S (RIVET ARCHETECTURE)	1 - 5 Mar 16	SELF	70
3	Practical approaches in Computer Aided Design & Finite Element Analysis	30 Mar to 03 Apr 16	Self	49
4	Second National Conference on Recent Innovations in Engineering and Technology (NCRIET-2015)	7 - 8 Nov 15	Registration	170
5	Advances in implementation of computer networks	22 - 24 Jul 15	Self	25

### c) Percentage of faculty

- invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies
- participated in external Workshops / Seminars / Conferences recognized by national/ international professional bodies
- presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies

**Table No. 2.4.3 Faculty contribution to the outside world**

Invited as Resource Person in Workshops / seminar / conferences					Participated in Workshops/ seminar / conferences				Presented paper in Workshops / seminar / Conferences			
Year	12-13	13-14	14-15	15-16	12-13	13-14	14-15	15-16	12-13	13-14	14-15	15-16
No.	Nil	4	1	10		29	12	17	14	13	8	14

**2.4.4. What policies/systems are in place to recharge teachers? (eg: providing research grants, study leave, support for research and academic publications teaching experience in other national institutions and specialized programmes industrial engagement etc.)**



The following are some of the salient points of the policies/systems to recharge the teachers:

- **Incentives for research grants:** Institute gives incentives for Teachers who obtain research grants from various funding agencies.
- **Study leave:** The Institute grants study leave for higher education.
- **Deputation to National/International Conference / Seminars:** The Institution provides travel grant and contribution in registration fee to the faculty.
- **Research and academic publications:** College has subscription to e-journals and the access is provided to the faculty, Research Scholars and PG students.
- Faculties are encouraged to publish research articles.
- The Institute in collaboration with industries such as Wipro Technologies offers specialized programmes like MISSION 10x for faculty.

**2.4.5 Give the number of faculty who received awards / recognition at the state, national and international level for excellence in teaching during the last four years. Enunciate how the institutional culture and environment contributed to such performance/achievement of the faculty.**

Sl. No	Year	Name of staff	Award/Recognition
1	2013-14	Dr Jagdish Tawde	Young Research Scientist under VGST by Govt. of Karnataka
2	2015-16	Dr Uday Khadke	Centre for Industrial and Scientific Research – Senior Research Fellow
	2005-06		Name selected for Biographical sketch to the book, WHO'S WHO IN THE WORLD-2005
	2015-16		Visiting Fellowship award to visit JNCASR Bangalore for 03 months to work with Prof. U V Waghmare
3	2013-14	M.A. Devani	Received best paper award in technical session – V of International Conference on Frontiers in Chemical Engineering (ICFCE - 2013), NIT Rourkela,
4	2014-15	Shivkumar Anadur	Best Project Award by KSCST Bangalore
5	2015-16	Dhiraj Deshpande	Executive member for IETE Gulbarga Sub-Centre
6	2014-15	Dr Nagashettappa Biradar	Recognized Reviewer for Computers in Biology and Medicine, Elsevier Journal
	2015-16		Recognized Reviewer for Computers and Electrical Engineering, Elsevier Journal
7	2015-16	Dr. A M Bhavikatti	Chairman, IETE Gulbarga Sub-Centre
8	2015-16	Dr Sanjay Gowre	Secretary, IETE Gulbarga Sub-Centre

**2.4.6 Has the institution introduced evaluation of teachers by the students and external Peers? If yes, how is the evaluation used for improving the quality of the teaching-learning process?:** **Yes**

- The institution has a feedback system to evaluate the teachers by students. Feedback is sought from the students during the semester through the chairman academic committee. Feedback review meeting is then conducted in the presence of HOD and Principal. Necessary corrective steps are promptly taken up.
- At the end of each semester, the feedback from students is obtained by issuing printed questionnaires relating to all subjects. In this feedback, questions regarding performance of the teachers are sought. Their feedback is analyzed. Based on assessment of performance, necessary directions are given for the improvement in the teaching methods.
- Principal also collect the confidential report of the staff from the respective department head.
- Principal also monitors the feedback system and takes appropriate corrective action.

## **2.5. Evaluation Process and Reforms**

**2.5.1 How does the institution ensure that the stakeholders of the institution especially students and faculty are aware of the evaluation processes?**

First and foremost, all rules and regulations governing undergraduate/post graduate courses are mentioned in the corresponding 'Scheme and Syllabus' book supplied by VTU. This book is supplied free of cost to all students. The booklet contains information on attendance requirement, internal assessment marks, eligibility for passing, maximum duration for course completion, promotion and eligibility to appear for examinations, electives, seminar & project, award of class at semester level, award of class at degree level, award of medals & ranks and transfer from one college to another college.

In respect of IA test evaluation the procedure is as follows.

- In the beginning of every semester, the Academic Monitoring Committee, in consultation with the Principal, prepares the academic calendar which contains date of commencement of classes, the internal assessment test schedule etc.

- The above information in the academic calendar is brought to the notice of the stake holders by displaying it on notice boards and putting it up in the college and college website.
- Once the evaluation process in each IA test is complete, students are given an opportunity to see their answer scripts/blue books. In case any discrepancy is detected, the student can bring it to the notice of the teacher for appropriate action.
- Further, consolidated lists of IA marks and attendance are prepared and brought to the notice of the students.

### **2.5.2. What are the major evaluation reforms of the university that the institution has adopted and what are the reforms initiated by the institution on its own?**

The major evaluation reforms introduced by the university are the following.

**On-line resume entry:** First year students are required to enter their details to the VTU database.

**On-line entry of internal assessment marks:** The final IA marks of the students are to be entered to VTU website during the period notified by the university. The concerned subject teacher has to enter the IA marks and the same is to be approved by the Principal. Once the Principal's approval is over, no alterations can be made to these marks under any circumstances. The major evaluation reforms introduced by the university in the recent years are the following.

**On-line entry of internal assessment marks:** The final IA marks of the students are to be entered to VTU website during the period notified by the university. The concerned subject teacher has to enter the IA marks and the same is to be approved by the Principal. Once the Principal's approval is over, no alterations can be made to these marks under any circumstances.

**On-line uploading of examination/revaluation application forms:**

Examination/revaluation applications are to be uploaded to VTU website during the period notified by the university. A printout of the receipt is kept in the department for future reference.

**Question Paper Delivery System:** All VTU examination question papers are delivered through a highly secure data transfer system. Separate security codes are supplied to Chief Superintendent, external deputy chief superintendent and system operator by the University for downloading the question paper. The question paper can be downloaded only 30 minutes before the commencement of examination. Further, necessary copies of the same are made

and packed. As per VTU guidelines, the entire process strictly takes place in a strong room exclusively meant for the purpose. Entry to the strong room is restricted to examination staff only.

**Digital evaluation of answer scripts:** On completion of an examination, the answer scripts are immediately sent to the main VTU evaluation centre. These answer books are scanned to digital form and communicated to various branches to be evaluated by teachers. As the entire process is automated, the effort of the evaluator is reduced to a great extent. This system also avoids the difficulty in transporting the answer scripts to various evaluation branches and back.

**Publication of results in website/ communication through SMS:** Students can get the result from website or by sending SMS to the university.

**The major reforms introduced by the institution are the following.** The institution has a separate exam section with 10 systems of latest configuration having high speed internet access. Teachers use this section for on-line entry of IA marks and on-line uploading of examination application forms to VTU.

**Result of test:** Immediately after the valuation of test booklets, marks of each internal assessment tests and their respective attendance status is sent to their parent.

### **2.5.3. How does the institution ensure effective implementation of the evaluation reforms of the university and those initiated by the institution on its own?**

The evaluation reforms specified by the affiliating university are to be followed strictly by each constituent college. Concerned faculty, head of the department and Principal supervises the on-line entry of IA marks and on-line uploading of examination forms. An error committed is usually not tolerated by the college and university and there are penalty clauses. Hence all concerned will take extreme care to avoid mistakes. As far QPDS is concerned, it is the combined responsibility of the Chief and External Deputy Chief Superintendents in maintaining the confidentiality. Also the flying /special squad members of the university inspect the system during their visits. Hence the institution is forced to keep the system robust.

### **2.5.4 Provide details on the formative and summative assessment approaches adopted to measure student achievement. Cite a few examples which have positively impacted the system.**

To measure student achievement both the formative and summative evaluation approaches are adopted by the institution. By conducting verbal tests, group discussions, seminars,

student's achievements are evaluated. This type of formative approach gives lot of information about student achievement after teaching a particular unit. The performance of the student gives opportunity to the teacher to know about his/her ability and skills in the concerned subject. So the teacher can take necessary steps to improve the performance of the particular student. Quizzes, group discussions, verbal tests, assignments, surprise tests are followed by all the faculty members to measure students' achievements and performance by formative approach. The summative evaluation is done during internal test and mock examination. If the students performance is below average re-tests are conducted to improve their performance. For summative approach two internal tests and one improvement examination is conducted in the College. The above approach of formative and summative evaluation adopted in the institution has positively impacted upon the performance of the students. The students are pre-trained in taking the University examination without any fear. Students have also improved their internal exam score. Teachers understand areas in which student performance is lacking and efforts needed to fill the void. Post-test, paper-wise question-answer discussion by the respective faculty members benefits the students getting inputs on expected answers.

### **2.5.5. Detail on the significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightages assigned for the overall development of students (weightage for behavioral aspects, independent learning, communication skills etc.**

The institution is affiliated to VTU and hence governed by its rules. As per norms, three internal assessment tests are conducted in a semester, the third being an improvement test. A common question paper with scheme is set for each subject by a faculty for every internal assessment (IA) tests. Evaluation is strictly as per the scheme prepared by the teacher who has set the question paper. Internal test question paper is set for 20 marks for CBCS Scheme and 25 marks for percentage based semester scheme students. The time allotted is 1hour. VTU examination pattern is followed in conducting IA tests. The evaluated blue books are shown to students for clarifications. Also the IA marks are displayed on notice board. Proficiency in communication and independent learning habit help in scoring marks in Seminar and Project Work. A total of 150 IA marks is allotted to these two subjects.

### **2.5.6. What are the graduates attributes specified by the college/ affiliating university? How does the college ensure the attainment of these by the students?**

VTU has identified eleven Graduate Attributes of Engineering which are referred to as program outcomes by Washington Accord. The institution is trying its best for attainment of these attributes by the students through its teaching, learning and evaluation processes. Some of the graduate attributes as defined by the institution are

- In-depth knowledge of engineering subjects
- Skills to analyze, investigate and solve engineering problems
- Independent learning in the context of fast technological changes
- Effective communication skills on complex engineering activities
- Commitment to professional ethics and responsibility to society.

#### **2.5.7 What are the mechanisms for redressal of grievances with reference to evaluation both at the college and University level?**

University has its own system for redressal of grievances. With reference to evaluation, if the student has scored less mark than expected, he/she can apply on-line for revaluation of his/her answer script after paying the prescribed fee. If the revaluation results are not satisfactory, the student can apply for challenge revaluation.

Also the student can apply for a photocopy of his/her answer script. The photocopy is e-mailed to the mail-id provided by the student. At institution level, grievances related to evaluation are normally redressed by the concerned teacher/Head of the Department/Principal depending on the intensity of the problem.

### **2.6 Student performance and Learning Outcomes**

#### **2.6.1 Does the college have clearly stated learning outcomes? If 'yes' give details on how the students and staff are made aware of these?                      Yes.**

The college has clearly stated learning outcomes. Learning outcomes are displayed at all important locations in the college. Also the same is available in the college Website.

The Learning Outcomes are

- In-depth knowledge of engineering subjects.
- Skills to analyze investigate and solve engineering problems.
- Independent learning in the context of fast technological changes.
- Effective communication skills on complex engineering activities.
- Commitment to professional ethics and responsibility to society.

**2.6.2 Enumerate on how the institution monitors and communicates the progress and performance of students through the duration of the course/programme? Provide an analysis of the student's results/achievements (Programme/course wise for last four years) and explain the differences if any and patterns of achievement across the programmes/courses offered.**

Institution monitors and communicates the progress and performance of students as under:

- The progress and performance of the students during the programme is observed by conducting Chapter wise tests, Unit tests, lab test, viva voce, seminars, Assignments, project, etc.
- Answer booklets are given back to students after evaluation. Results are discussed with the students.
- Individual students result is discussed with him/her. Discussion is done in such a manner that without degrading their integrity the shortcomings which are present in the answer is identified and the various hints are provided to the respective students.
- University examinations results are available on the university website and are also displayed on the department notice boards.
- We have Mentorship Scheme for continuous monitoring of the overall performance of the students. Each mentor keeps a record of the student's performance and behavior at various stages of semester. This is discussed with the HOD & then intimated to the parents.
- Marks of the First, Second and Improvement test is sent to the respective parents immediately after the completion of the test. And at the end of the semester the average marks of the individual student is sent to their respective parent.

**Given below in the Table No.2.14 are the results of various departments for the last four years:**

**Table No.2.6.2(a) Result analysis (Odd Semester)**

Sl. No.	Name of the Department	Academic year	1 <sup>st</sup> semester	3 <sup>rd</sup> semester	5 <sup>th</sup> semester	7 <sup>th</sup> semester
1	Mechanical Engineering	2015-16	19	24	47	58
		2014-15	39	63	52	85
		2013-14	43	58	23	92
		2012-13	57	38	51	68
2	Electronics and Communication Engineering	2015-16	18	19	67	84
		2014-15	38	55	57	82
		2013-14	65	53	60	86

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		2012-13	57	38	51	83
3	Computer Science and Engineering	2015-16	21	55	37	65
		2014-15	34	43	65	75
		2013-14	40	41	65	89
		2012-13	43	31	47	75
4	Civil Engineering	2015-16	17	62	84	58
		2014-15	35	60	42	68
		2013-14	53	47	74	92
		2012-13	33	37	59	75
5	Chemical Engg.	2015-16	00	73	57	100
		2014-15	47	65	82	96
		2013-14	38	75	91	67
		2012-13	37	55	54	95
6	MCA	2015-16	36	69	56	
		2014-15	00	90	86	
		2013-14	52	64	72	
		2012-13	27	73	65	

**Table No.2.6.2(b) Result analysis (Even Semester)**

Sl. No.	Name of the Department	Academic year	2 <sup>nd</sup> semester	4 <sup>th</sup> semester	6 <sup>th</sup> semester	8 <sup>th</sup> semester
1	Mechanical Engineering	2015-16	20	36	44	97
		2014-15	62	50	79	97
		2013-14	40	59	59	94
		2012-13	35	40	65	89
2	Electronics and Communication Engineering	2015-16	28	15	56	91
		2014-15	64	44	56	88
		2013-14	71	54	66	98
		2012-13	56	45	38	95
3	Computer Science and Engineering	2015-16	16	48	67	89
		2014-15	56	42	80	87
		2013-14	49	39	45	96
		2012-13	33	27	59	94
4	Civil Engineering	2015-16	20	60	83	86
		2014-15	67	54	28	84
		2013-14	34	40	59	77
		2012-13	30	46	56	66
5	Chemical Engg.	2015-16	00	55	38	100
		2014-15	34	30	82	100
		2013-14	20	75	69	89
		2012-13	19	56	49	95
6	MCA	2015-16	77	78	89	
		2014-15	32	60	100	
		2013-14	71	75	100	
		2012-13	58	76	100	



**2.6.3. How are the teaching, learning and assessment strategies of the institution structured to facilitate the achievement of the intended learning outcomes?**

- At the very beginning of the semester clearly program outcome is planned.
- To assure our self that we are following the correct path, by which we can meet the program outcome. The following activities are carried out
- Each Teacher Prepares the lesson Plan for every subject, which is a complete pre-planned teaching schedule for the current semester. This includes the syllabus to be covered, the Assignments, Seminars, Test Papers, and any other academic activity the teachers would like to incorporate individually. The Head of the Department monitors the same in the Department.
- For students, study hour arrangement is made.
- Library is kept open beyond the working hours, E-journal and e-resource access is available to students.
- Campus and hostels are enabled by Wi-Fi.
- EDUSAT program is arranged in the time table.
- For all the first year students English language lab is provided.
- From the T&P cell periodically soft skill training, entrepreneurship guidance is provided to the students
- Institute conducts three internal assessment test.
- Before the commencement of the University examination a mock test

**2.6.4. What are the measures/initiatives taken up by the institution to enhance the social and economic relevance (student placements, entrepreneurship, innovation and research aptitude, developed among students etc.) of the courses offered?**

- ❖ Institute organizes one week soft skill and aptitude training program for the students to improve their employability skills.
- ❖ The institution also provides technical skill development programs to the students. The training of the software like AUTOCAD, STAAD PRO, CATIA, ANSYS, C, C++, JAVA etc from the experts is provided to students to improve their employability.
- ❖ Institute has signed MoU with consultant companies such as Hirex etc.
- ❖ Entrepreneurship awareness programmes are organized by the institute through various technical events at institute and national level.
- ❖ Institute organizes ‘National level conference’ where in students can present their

research paper. Such events give opportunity to nurture the innovation instinct in them.

- ❖ Our students attend the research project competition organized by Various colleges and Universities.
- ❖ Institute offers PG & Ph.D. programme to supplement the research activity.
- ❖ Institute has VTU recognized research centers in various departments.
- ❖ Institute organizes programmes on entrepreneurship Intellectual Property Right.
- ❖ Institute organizes extension activities like NSS Camps, Blood Donation and tree plantation events. It also carries out social work in association with NGOs.

### **2.6.5. How does the institution collect and use it for planning and overcoming and analyze data on student performance and learning outcomes barriers of learning.**

The institute conducts the following to collect and analyze data on student performance and learning outcomes:

- ❖ Internal assessment test,
- ❖ Class test,
- ❖ Lab test, Semester exams etc.
- ❖ Students' feedback
- ❖ Alumni survey
- ❖ Employer survey

Regular meetings are held between the Principal and HOD's. Mentors role is exploited to keep track of students' performance. After an IA test, the results are analyzed to categorize the students in a class to slow, normal and fast learners. Slow learners are advised to undergo remedial classes whereas fast learners are guided in innovation-oriented activities. VTU results are also analyzed and the outcome is used for refining teaching-learning methods.

### **2.6.6. How does the institution monitor and ensure the achievement of learning outcomes?**

Meetings are conducted on a regular basis involving Management, Principal, Vice Principal, Heads of the Departments and Placement Officer to formulate strategies for achievement of learning outcomes by the students. The capability level of a student is generally assessed based on the following parameters;

- Marks scored by him/her in internal as well external theory & lab examinations.

- Performance in aptitude tests, mock interviews and group discussions conducted by T&P cell.
- Mentors will engage meeting with their respective mentees on weekly basis to assess the performance. (LEARNING OUTCOMES)

The assessment outcomes are used to give additional training to students who are deviating from the learning outcomes. The institution is trying its best to see that the students attain all graduate attributes.

**2.6.7 Does the institution and individual teacher use assessment/ evaluation outcomes as an indicator for evaluating student performance, achievement of learning objectives and planning? If ‘yes’ provide details on the process and cite a few examples. Yes.**

The institute and all individual faculty use assessment/evaluation outcomes as an indicator for evaluating student’s performance, achievement of learning objectives. Institute has strong methodology for continuous evaluation/assessment. Learning objectives are assessed through monitoring performance in internal assessment, lab test, seminars, assignments, technical quiz and semester results. On the basis of performance in class test, unit test and university result analysis, the slow learners are directed to practice sessions/remedial classes. Students with high performance are rewarded with appreciation/cash prize by head of the Institution.

## **Criteria – III: Research, Consultancy and Extension**

### **3.1 PROMOTION OF RESEARCH**

#### **3.1.1 Does the institution have recognized research centre/s of the affiliating University or any other agency/organization?**

The following four departments have been recognized as Research Centre from Visvesvaraya Technological University (VTU) Belgaum, Karnataka. The faculty members and students of various departments are actively engaged in research activities in various disciplinary research areas.

<b>Sl.No.</b>	<b>Name of the Department</b>
1	Electronics & Communication Engineering
2	Engineering Physics
3	Engineering Chemistry
4	Engineering Mathematics

#### **3.1.2 Does the Institution have a research committee to monitor and address the issues of research? If so, what is its composition? Mention a few recommendations made by the committee for implementation and their impact.**

<b>Sl. No.</b>	<b>Name</b>	<b>Designation</b>	<b>Organization</b>
1	Dr. B. B. Lal, Principal	Chairman	BKIT, Bhalki
2	Dr. A. M. Bhavikatti	Member	BKIT, Bhalki
3	Dr. D. H. Rao	Member	SGBIT, Belgaum
4	Dr. U. V. Khadke	Member	BKIT, Bhalki
5	Dr. Ashokkumar Koti	Member	BKIT, Bhalki
6	Prof. B.G. Mulimani	Member	BLDE Bijapur
7	Dr. Dinesh Rangappa	Member	VTU Bangalore
8	Dr.Layak Ali	Member	CUK Kalburgi
9	Dr. Suryakanth G	Member	IIIT Hyderabad
10	Dr. R. V. Rajkumar	Member	IIT Bhubaneswar
11	Dr. Basavaraj Gadgay	Member	VTU RO, Kalaburgi
12	Dr.Sanjaykumar Gowre	Convener	BKIT, Bhalki

#### **A few recommendations made by the committee**

1. Faculty involved in research is to be encouraged by giving relaxation in the regular workload to facilitate overall research and development activity.

2. Faculty need to be deputed to attend/participate in the conference/ workshop/ seminars for their related field.
3. Establishment of centralized research wing to cater to the needs of faculty is to be envisaged and implemented, facilitating more interactions and interdisciplinary in research.

### **3.1.3 What are the measures taken by the institution to facilitate smooth progress and implementation of research schemes/projects?**

- **Autonomy to the principal investigator:** Complete autonomy is given to the Principal Investigator (PI) to plan and execute the research establishment sanctioned under various scheme of government / private sectors scheme of research grants. The Institute has adopted the standard policy in disbursing the amount as per the KCSR rules and regulations. The purchase committee comprising of the Head of the Institution, PI, Head of the respective department, one professor serving as HOD of sister department and Registrar is constituted to discuss and approve the budget utilisation as per the provision of grantee and institution in order to procure the required materials.
- **Limitation of fund approval is as follows:**
  - PI– up to 5,000/- with prior sanction from the head of the institution.
  - 5000/- to 50,000/- with committee recommendation.
  - ≥ 50,000/- committee recommendation and approval of the Board of Governing Council.
- **Timely availability for release of resources:**
  - The grants received from the various funding agencies are kept and maintained in the separate account at the nationalised bank and made available to PI as per the requirement following the norms of the grantee and the institution. Process of sanctioning, releasing amount and clearing the accounts is being completed within a week.
- **Adequate infrastructure and human resources:**
  - On request of the PI, the Institute provide the space and other logistics for the establishment of research lab under the sanctioned project. The Institute assign the supporting staff to assist PI for clerical assistance, such as communicating the official in respect of preparing the list and specification of instruments, calling manual tender, finalisation of the specification of the proposed instruments and comparative statement that helps in procurement process. The computing facility and other required facility is being provided by the Institute.
- **Time-off, reduced teaching load, special leave etc. to teachers:**

- The teaching load is adequately reduced to concentrate on the research projects. The special leave, duty leaves and to extend of travel support is being provided by the Institute to motivate the staff towards research activity.
- **Support in terms of technology and information needs:**
- The support of computation and internet facility is provided by the institution. Access to the library in making literature survey, issuing of science magazine/journals, and CDs for a stipulated duration is being the best practice of the institution. Expert service is also extended to enrich the quality of research work. Fostering the Interdisciplinary activity is the key practice of the institution.
- **Facilitate timely auditing and submission of utilization certificate to the funding authorities:**
- All the activity related to the projects and the required information is maintained at institutional data base to keep the track of project progress and supplementary needs to ensure timely completion of the project. Preparing the statement and timely submission of Utilisation Certificate /Progress Report to the funding agency is monitored.
- **Any other:**
- Separate accounts for the fund sanctioned and released from various funding agencies and the department budget allocation for the research is provided to have proper accountability of the funds utilised. The Institute encourage the faculty to prepare the proposals and send across to the concerned funding agencies. All other logistical expenses are born by the Institute.

### **3.1.3 What are the efforts made by the institution in developing scientific temper and research culture and aptitude among students?**

1. The students are encouraged to write the technical paper and they are deputed to participate and present the technical paper in technical sessions frequently held at the parent institution and other nearby institution so that the student get the confidence of excellence.
2. The Institute arranges education trips to the nearby research centers/industries, motivating them to opt the research avenue.
3. Technical inputs and critical remarks to improve the quality of projects are provided by in-house experts of the institution.
4. Skill development and trainings programmes on the respective discipline are conducted frequently.

5. The Institute encourages developing creative and innovative ideas that are useful to the mankind and society.

**3.1.4 Give details of the faculty involvement in active research (Guiding student research, leading Research Projects, engaged in individual /collaborative research activity, etc)**

**3.1.4.1 Details of the faculties regarding research guidance**

Sl. No.	Faculty Name	Qualification	Specialisation	No. of Students guided for research/project		
				UG	PG	PhD
01	Dr. T. S. Viswanath	Ph.D.	Control System	35	02	05
02	Dr. C. M.Tavade	Ph.D.	Material Science	40	02	05
03	Prof. A. S.Inamdar	M. E.	Power Electronics	40	02	Nil
04	Dr. B Suryakanth	Ph.D.	Smart Antenna	30	02	05
05	Dr. Sanjaykumar	Ph.D.	Optics & Photonic	20	02	08
06	Dr. Nagashettappa Biradar	Ph.D.	Biomedical Image Processing	20	02	02
07	Ramesh D	M.Tech. (PhD)	Instrumentation	20	02	Nil
08	Kalpana C	M.Tech. (Ph. D)	Antenna	22	02	Nil
09	Gurupadappa H	M.Tech.	Power Systems	16	01	Nil
10	Satish K	M.Tech. (Ph. D)	MW Comm.	12	01	Nil
11	Sharanbasappa B	M.E. (Ph. D)	Antennas	20	01	Nil
12	Udaykumar K.	M.Tech. (Ph.D)	VLSI& ES	20	02	Nil
13	Sanjeev Gogga	M.Tech. (Ph. D)	Power & Photonic	20	02	Nil
14	Dhiraj D	M.Tech.	Comm. Systems	24	Nil	Nil
15	Hameed M	M.Tech. (Ph. D)	Wireless comm.	10	02	Nil
16	Mallikarjun S	M.Tech. (Ph. D)	Power & Antenna	12	Nil	Nil
17	Nagnath B	M.Tech. (Ph. D)	Wireless Sensor N/w	11	02	Nil
18	Dhanraj B	M.Tech.	VLSI& ES	7	01	Nil
19	Vijaykumar K	M.Tech. (Ph. D)	VLSI& ES	06	Nil	Nil
20	Pralhad S	M.Tech.	VLSI& ES	06	Nil	Nil
21	Amit Kumar S	M.Tech.	Embedded System	06	Nil	Nil
22	Prashant S	M.Tech. (Ph. D)	Digital Comm.	05	02	Nil

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23	Mallikarjun T	M.Tech. (Ph. D)	Embedded System	05	01	Nil
24	Saba Fatima	M.Tech. (Ph. D)	VLSI& ES	03	01	Nil
25	Dr. Arvind M. Bhavikatti	Ph.D.	Material science	25	04	08
26	Hanmanth K.	M.Tech	Computer Sci.	20	02	Nil
27	Rajkumar B Patil	M.Tech	Computer Sci.	15	02	Nil
28	Vinayak Biradar	M.Tech	Computer Sci.	15	02	Nil
29	Shivakumar A.	M.Tech	Computer Sci.	13	02	Nil
30	Geeta V Patil	M.Tech	Computer Sci.	13	02	Nil
31	Mallikarjun Mugali	M.Tech	Computer Sci.	13	02	Nil
32	Nagashettappa K	M.Tech	Info.Tech.	10	01	Nil
33	Romy Sinha	M.Tech	Software Engg.	07	01	Nil
34	Md Rafeeq	M.Tech	Computer Sci.	07	01	Nil
35	Vishal R More	M.Tech	Computer Sci.	07	01	Nil
36	L M Deshpande	M.Tech	Computer Sci.	12	01	Nil
37	Shilpa Harnale	M.Tech	Computer Sci.	06	Nil	Nil
38	Sangamesh K	M.Tech	Computer Sci.	06	01	Nil
39	Sudarshan Adeppa	M.Tech	DCN	06	01	Nil
40	Ambika Mangalgi	M.Tech	Computer Sci.	07	Nil	Nil
41	Sushma P	M.Tech	Computer Sci.	05	Nil	Nil
42	Sangamesh Gama	M.Tech	Digital Elec.	05	Nil	Nil
43	Bhimrao Patil	M.Tech	Computer Sci.	05	Nil	Nil
44	Chamundeshwari	M.Tech	Computer Sci.	02	Nil	Nil
45	Santosh Patil	M.Tech	Computer Sci.	02	Nil	Nil
46	Omprakash B	M.Tech	Computer Sci.	02	Nil	Nil
47	Dr. B.P. Yadav	Ph.D	Design	30	Nil	02
48	Dr. B Anilkumar	Ph.D	Thermal Engg.	25	Nil	Nil
49	P.N.Divakar	M.E	Thermal Engg.	28	Nil	Nil
50	C Molkere	M.E	AME	28	Nil	Nil
51	SanjeevDoijode	M.E	Heat Power	25	Nil	Nil
52	Anil Patil	M.Tech	Heat Power	22	Nil	Nil
53	Basawaraj K	M.E	Mach. Design	20	Nil	Nil
54	Ashok G	M.E	Prod. Engg.	18	Nil	Nil
55	Shivkumar B	M.E	Design Engg.	17	Nil	Nil
56	Basawaraj Patil	M.E	Design Engg.	17	Nil	Nil
57	Jayaraj Siddan	M.Tech	Material Engg.	16	Nil	Nil
58	Rajshekhar M	M.E	Design Engg.	14	Nil	Nil
59	Umakanth M	M.Tech	Prod. Engg.	10	Nil	Nil
60	Jeevaraj	M.Tech	Thermal Engg.	07	Nil	Nil
61	Vijaykumar C	M.Tech	Thermal Engg.	06	Nil	Nil
62	ShrinathBhosle	M.Tech	Prod. Engg.	06	Nil	Nil
63	Anandkumar T	M.E	Mach. Design	06	Nil	Nil
64	Ebinezar	M.Tech	Prod. Engg.	05	Nil	Nil
65	Bheemrao K	M.Tech	Thermal Engg.	05	Nil	Nil
66	Raj Reddy	M.Tech	Thermal Engg.	04	Nil	Nil
67	AdrashAdeppa	M.Tech	C I M	04	Nil	Nil



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68	S.V. Biradar	M.Tech	Irrig. Hydr.Engg	27	05	Nil
69	Dr. Arunkumar	Ph.D.	Geo-technology	02	02	Nil
70	C. K. Patil	M.Tech	Environ. Engg.	28	Nil	Nil
71	Dilipkumar Kanna	M.Tech	Water Resources	28	02	Nil
72	A.Pandurang	M.Tech	Env. Engg.	27	Nil	Nil
73	Omkar Biradar	M.Tech	Construct. Tech.	28	Nil	Nil
74	S.Y.Awali	M.Tech	Engg. Geology	28	Nil	Nil
75	Mallikarjun D.H	M.Tech	Structral Engg.	16	04	Nil
76	Ramesh B	M.Tech	Environmental	04	Nil	Nil
77	NagrajBachha	M.Tech	Geo Tech. Engg.	05	08	Nil
78	SantoshDhadde	M.Tech	Structural Engg.	03	Nil	Nil
79	KhajaMoniuddin	M.Tech	Earthquake	05	04	Nil
80	UllasJaje	M.Tech	Highway Techn.	03	Nil	Nil
81	Surekha M. Shaka	M.Tech	Structural	01	Nil	Nil
82	Gangambika Patil	M.Tech	Structural Engg.	01	Nil	Nil
83	Shri. Goudappa.B	M.Tech	Structural Engg.	03	Nil	Nil
84	Winny Joseph	M.Tech	Geo Technical	01	Nil	Nil
85	M.A. Devani	M.Tech. (Ph.D)	Chemical Engg.	15	Nil	Nil
86	B.S.Patil	M.Tech	Environ. Engg.	20	Nil	Nil
87	Sudhakar B.H	M.Tech	Chemical Engg.	03	Nil	Nil
88	Bhagayashree	M.Tech	Chemical Engg.	01	Nil	Nil
89	Shilpa M	M.Tech	Chemical Engg.	01	Nil	Nil
90	Dr. Ashok Koti	Ph.D	Mathematics	Nil	Nil	02
91	Dr. Vijayakumar	Ph.D	Chemistry	Nil	Nil	02
92	Dr. Sangshetty K	Ph.D	Physics	Nil	Nil	05
93	Dr. U. V. khadke	Ph.D	Physics	Nil	Nil	05
94	Dr. Jagadish T	Ph.D	Mathematics	Nil	Nil	02
95	Sunil Sangame	MCA	MCA	Nil	16	-
96	Yogesh G	MCA	MCA	Nil	12	-
97	Baswaraj Prabha	M.Tech	CSE	14	12	-
98	Gayatri M	MCA	MCA	Nil	16	-
99	Sandeep	MCA	MCA	Nil	08	-

### 3.1.6 Details of workshop/training programme:

The Institute encourages their faculty member to organize the event like, seminars/workshop/conference on the recent advancement of their respective subject area. The details of the events conducted by the various departments are given below.

Sl. No.	Title of the event	Coordinator	Date	
			From	to
1	Computer Aided Analysis using Altair Hypermesh and MSC – NASTRAN (STTP)	Rajshekhar Mathpati	5 <sup>th</sup> Jan. 2016	16 <sup>th</sup> Jan. 2016
2	Practical Approaches In Computer Aided Design and Finite Element	Rajshekhar Mathpati	30 <sup>th</sup> Mar 2016	03 April 2016

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	Analysis			
3	National Level Five Days Workshop on AutoDesk – Building information Modeling	Nagraj Bacha	1 March 2016	5 March 2016
4	National Conference on Women Empowerment(WE-2015)	Kalpana C.	29 Mar, 2015	30 Mar, 2015
5	Second National Conference on Recent Emerging Innovations and Technology (NCRIET-2015)	Dr. B Suryakanth	7 Nov., 2015	8 Nov., 2015
6	National Level Workshop on Earthquake resistant Practices in Civil Engg. (ERPCE 2015)	Md Khaja Moniuddin	9 March 2015	11 March 2015
7	Geospatial Technologies(Using Open Source GIS)	Dr.V.M.De vappa	9 Oct. 2015	11 Oct. 2015
8	One Day Seminar On Total Station & LIDR	Ramesh Bashetty	9 May 2015	9 <sup>th</sup> May 2015
9	Three days FDP on “Advances in implementation of computer networks”	H.S Kulkarni	22 July 2015	24 July 2015
10	Three days National level Workshop on “E-Commerce”	Vinayak G. Biradar	30 Oct. 2015	1 Nov. 2015
11	Ten days Refresher Course on “Computer Basics & M S Office”	Vishal More	08 Dec. 2015	17 Dec. 2015
12	National Conference on Recent Emerging Innovations and Technology (NCRIET-2014)	Dr. B Suryakanth	3 May, 2014	4 May, 2014
13	National Conference on Recent Advances in Science and Technology (NCST-2014)	Kalpana C.	22 Mar. 2014	23 Mar. 2014
14	One week winter school program on Recent innovations in HDL and Microprocessor 2014	Prof. Prahallad S	21 Jan. 2014	25 Jan. 2014
15	VTU-VGST sponsored FDP on “Future Trends & Innovations in Information Communication & Technology” during 8 <sup>th</sup> to 11 <sup>th</sup> May 2014	Dr. Sanjay Gowre	8 May 2014	11 May 2014
16	Workshop on Advances in Network Simulator -2,during July-August 2014	Satish Kannale	31 July-2014	02 Aug. 2014
17	Workshop on “Research Methodology”	M. Devani	18 Mar. 2014.	19 Mar. 2014.
18	National level Workshop on “Computational Fluid Dynamics & Multi-Body Dynamics simulation & Analysis”.	Rajshekhar Mathpati	19 March 14	23-Mar-14
19	Recent practices in CAE and Automation (Summer School)	Jairaj Siddana	11 April 2014.	15 April 2014.
20	National Conferences on Recent Innovation in Engineering and Technology	Jairaj Siddana	3 May 2014.	4 May 2014.
21	Recent Developments in Renewable Energies – Future Energy(FDP)	Anil Patil	18 Sept. 2014.	22 Sept. 2014.

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22	Water planning & management for sustainability	Dr.V.M.De vappa	25April 2014	27 April 2014
23	Two days National level Workshop on “Hands on Networking” 2014	Mallikarjun Mugli	9 March 2014	10 Mar. 2014
24	One day Special Talk “Ethical Hacking”	Mallikarjun Mugli	11 Mar 2014	11 <sup>th</sup> Mar 2014
25	One week Summer School on “Fundamentals of C & C++”	H.S Kulkarni	24-Apr-14	28-Apr-14
26	Three days National level Workshop on “Web Designing”	Rajkumar Patil	22 Aug. 2014	24 Aug. 2014
27	Two days National level FDP on “Use of Moodle in Education	Sandeep K	08 <sup>th</sup> Aug. 2014	09 <sup>th</sup> Aug. 2014
28	Two days National Level Seminar on Women for Excellence-2013	Kalpana C.	7 Mar, 2013	8 <sup>th</sup> Mar, 2013
29	National level workshop on “Recent Research Trends in Communication and Network” during March 15-16, 2013	Prof. Kalpana C	15 March, 2013	16 March 2013
30	Faculty development programme on Micro-electronics and circuits on 16 <sup>th</sup> Feb. 2013	Uday N K, Sanjeev Gogga	16 Feb. 2013	16 Feb. 2013
31	Two days workshop on “LATEX”	Dr. B Suryakanth	22 Mar. 2013	23 Mar. 2013
32	Industry Institute Interaction on VLSI Design, Embedded System & Telecommunication	Dhanraj B	27 Sept. 2013	28 Sept. 2013
33	Symposium “Chemvision 2013”	M. Devani	13-Apr-13	13-Apr-13
34	National level Workshop on “Symposium Mech – Mantra”.	Sanjeev Doijode	1-May-13	16-May-13
35	Two days National level Workshop on “Ethical hacking”	Vinayak G. Biradar	1 March 2013	2 Mar. 2013
36	Training program “Internet World”	Rajkumar Patil	18 Nov. 2013	21 Nov. 2013
37	FDP on Innovative Ideas of Teaching and Learning Skills	Dr.Jagadish Tavade	22 Feb 2013	23-Feb-13
38	Two days National conference on Recent Trends in Mgt.& technology	Yogesh V. G	5 April 2013	6 April 2013
39	One Day National Level workshop on Women Empowerment-2012	Kalpana C.	20 Mar, 2012	20 Mar, 2012
40	One day workshop on “MSP-430”	Dr. B Suryakanth	4 Feb 2012	4 Feb 2012
41	One day seminar “ Trends in Heat and Mass Transfer”	B S Patil	16 April 2012	16 <sup>th</sup> April 2012
42	International Conference on Communication, Computation and Management (ICN-2011)	Sunil Sangme	23-Sep 2011	25 Sept., 2011
43	One day National Level Workshop on Women Empowerment-2011	Kalpana C.	2011	

**3.1.7 Provide details of prioritised research areas and the expertise available with the institution.**

Sl.No.	Name of the Department	Expertisation
01	Electronics and Communication Engineering	Optics and Photonics, Biomedical signal and image processing, Power Electronics, Antenna Design, Big Data Analysis, Artificial Intelligence, Materials Science, Digital and mobile Communication, H-infinity and control system, Circuits, Microwave comm., Error control coding, VLSI, wireless and Satellite communication.
02	Mechanical Engineering	Thermal Engineering, Machine Design, Heat Power, Production engineering, AME, CIM, CAD/CAM Manufacturing Science & Engineering, PPE & Energy, CAE.
03	Civil Engineering	Geotechnical, Structures, Transportation, Fluid Mechanics, Environmental, GIS, Hydrology
04	Computer and Science Engineering	Cloud Computing, Adhoc Networks, Internet of Things, Data Mining, Systems and Information, Sensor Network
05	Chemical Engineering	Chemical Engineering, High Polymer Technology, Chemical Plant Design, Photo Oxidation and water treatment, Mathematical Modeling, Biochemical Engineering
06	Applied Science and Humanities	<b>Physics-</b> Polymer science and Technology, Radiation Physics and Material Science <b>Chemistry</b> – Physical, organic and inorganic <b>Mathematics</b> – fluid dynamics and graph theory

**3.1.8 Enumerate the efforts of the institution in attracting researchers of eminence to visit the campus and interact with teachers and students?**

**The faculties of the Institute are:**

1. The faculties of the institution are allowed to visit research centre for planning and execution of the research proposals / projects.
2. The Institute encourages and supports to have research collaboration with other institutions.
3. The faculty of the institution are having MOU's with various academic and research Institutes.
4. Frequent visit and education trips for students are arranged on need based activities.
5. Eminent speakers from the academic and research Institutes are invited for the special lecture.
6. Seminars, Workshops, Training Programme for both students and staff are regularly

arranged for the enhancement of knowledge and motivate to choose the research avenues.

7. Expert committee has been constituted to review the progress of the planned work and to execute the research activity in the interdisciplinary area.

**3.1.9 What percentage of the faculty has utilized Sabbatical Leave for research activities? How has the provision contributed to improve the quality of research and imbibe research culture on the campus?**

Institute has a provision to offer sabbatical leave for their faculty to pursue higher studies like M.Tech., Ph.D., to ensure the quality up gradation. Institute has supported faculties who have secured the admission for Ph.D. under External Ph.D registration (under FDP quota) at reputed institutions like IIT, IISc, and other research centres.

Sl. No.	Type of leave	% of staff
01	Sabbatical leave	5%
02	Sponsorship	40%

The above facility has resulted into the enrichment of the knowledge of the faculty and helps in applying and getting research projects. This also results in having MoU's for the work that benefits to upgrade the knowledge and service to the society. (Proof: research projects from the funding agency)

**3.1.10 Provide details of the initiatives taken up by the institution in creating awareness/advocating/transfer of relative findings of research of the institution and elsewhere to students and community (lab to land)**

- Institute supports the faculties in following ways to ensure that the acquaintance developed through research is assimilated:
- Establishing collaborative research
- Instituting MoU's with academic, research and industries so that the society is benefitted by the research findings.
- Research findings are presented in national and international events and publish the work in Peer-reviewed journals.
- Institute encourages faculty to innovate and apply for patents.

- The faculties are involved in developing the cost effective energy resources utilisation like, Solar energy, fuel energy, bio-fuel and hybrid energy, waste water management, rain water harvesting etc.
- Optimize utilisation of resources and enhancing best out of waste.
- UG& PG students are given part of the research work as project and are encouraged to innovate and get an experience of working on real-time projects.

### **3.2 RESOURCE MOBILIZATION FOR RESEARCH**

**3.2.1 What percentage of the total budget is earmarked for research? Give details of major heads of expenditure, financial allocation and actual utilization?**

**Table: 3.2.1 Measure Head in Capital R & D Budget (in Lac)**

Year	Non Recurring		Recurring					
	Allocated	Utilized	Salary	Cons	Travel	Other	Total recurring allotted	Utilized
<b>2012-13</b>	3.75	3.75	6.0	0.5	0.25	9.41	17.00	16.16
<b>2013-14</b>	4.8	4.8	6.0	0.5	0.25	8.85	15.60	16.16
<b>2014-15</b>	4.5	4.5	7.2	0.5	0.25	10.00	18.00	17.95
<b>2015-16</b>	3.25	3.15	-	-	-	5.50	6.00	5.95

**Table: 3.2.1.1 Department Budget**

Academic Year	NR R & D budget	Recurring			Library Journal Subscription Budget
	Equipments	Consumable	Travel	Misc.	
2012-13	3633500	25000	30000	15000	250000
2013-14	4421000	30000	28000	18000	950000
2014-15	8774000	31000	29000	19000	410000
2015-16	7682000	39000	35000	22000	1450000

**3.2.2 Is there a provision in the institution to provide seed money to the faculty for research? If so, specify the amount disbursed and the percentage of the faculty that has availed the facility in the last four years?**

The institution encourages the faculties to write the research proposal to the various funding agencies. This has resulted in to getting the seed money to initiate the research work in their respective field. The details of the seed money granted from the funding agency is as follows

**Details of Seed Money**

Sl. No.	Department	Title	Amount (Lakhs)
1	AS & H	VGST project Dr. Jagadeesh Tavade	6.00

**3.2.3 What are the financial provisions made available to support student research projects by students?**

As such there is no special provision made for student research project. But, the students are guided to prepare the research project as a part of their curricula and encourage them to submit the same to the funding agencies like, KSCST, the Institute sponsors students for their research project based on individual request. The list of students awarded the financial assistance from KSCST for last 04 years is as follows.

Sl. No	Name of the student	Funding agency	Title of the project	Amount Sanctioned	Branch	Year
01	Balaji	KSCST, Bengaluru	Design, Analysis And Development Of Hybrid Power Inter-Cultivator	7000/-	ME	2015-16
02	Ashish Biyani	KSCST, Bengaluru	Mahatma Gandhi National Rural Employment Guarantee Act (MNREGA) Program Administrator	3000/-	CSE.	2015-16
03	Shiny Diana G	KSCST, Bengaluru	Toward Energy-Efficient Trust System Through Watchdog Optimization For WSN	3000/-	CSE	2015-16
04	Amir Khan	KSCST, Bengaluru	Compaction And Strength Characteristics Of Black Cotton Soils (B.C) In The Presence Of Chlorides And Sulphates	6000/-	Civil	2014-15
05	Priyakanta Thoudam	KSCST, Bengaluru	Consistency As A Service: Auditing Cloud Consistency	4000/-	CSE	2014-15
06	Nirosha More	KSCST, Bengaluru	Security Analysis Of Single Sign-On Mechanism For Distributed Computer Network	3000/-	CSE	2014-15
07	Prajakta Dixit	KSCST, Bengaluru	Black Box For Vehicles	6000/-	ECE.	2014-15
08	Shivalingappa	KSCST, Bengaluru	Semi-Smart Antenna Technology	5000/-	ECE	2014-15
09	Ravishankar	KSCST,	Adsorption Of Phenolic	4000/-	CHEM	2013-

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		Bengaluru	Water In A Fixed Bed Column: Experiments And Prediction Of Breakthrough Curves			14
10	Sangamesh Dhulappa	KSCST, Bengaluru	Removal Of Phenol By Electrochemical Oxidation Technique To Avoid Contamination In The Environment	5500/-	CHEM	2013-14
11	Mr. Farooq	KSCST, Bengaluru	Removal Of Arsenic From Water By Adsorption Technique	4000/-	Chem	2013-14
12	Puneeth.S	KSCST, Bengaluru	Stabilization Of Black Cotton Soils Using Fly Ash In Bidar-Bhalki Municipal Corporation Area	4500/-	Civil	2013-14
13	Manik.M.	KSCST, Bengaluru	Strength Comparison Of Conventional Concrete And Reactive Powder Concrete An Approach To Tensile And Compressive Strength Using Steel Fibres	7500/-	Civil	2013-14
14	Baswa Kumar	KSCST, Bengaluru	Alert: An Anonymous Location-Based Efficient Routing Protocol In Manets	4500/-	CSE	2013-14
15	Saumya	KSCST, Bengaluru	Ultrasonic Spectacles And Waist-Belt For Visually Impaired And Blind Person	5500/-	ECE	2013-14
16	Jyothi	KSCST, Bengaluru	Monitoring Of Hydraulic Water Level With CCD Integrated Laser Displacement Sensors Fed By Solar Cells	4500/-	IT	2013-14
17	Anita	KSCST, Bengaluru	Design & Development Of Low Cost Solar Powered Multipurpose Domestic Desire Machine	7500/-	ME	2013-14
18	Kirankumar Konnur	KSCST, Bengaluru	Defluoridation Of Drinking Water Using Bricks	5000/-	Civil	2012-13
19	Girish Biradar	KSCST, Bengaluru	An Experimental Study On Geopolymer Concrete	5000/-	Chem	2012-13
20	Aman Sandhu	KSCST, Bengaluru	Wavelet Transform Based Signal Filtering Of	4000/-	ECE	2012-13



			Ocular Artifacts In An EEG Signal			
21	Pooja Bhalke	KSCST, Bengaluru	Requisite Trust-Based Secure Routing Protocol For MANET	3000/-	IT	2012-13
22	Murlidhar R. Panchal	KSCST, Bengaluru	Effective Utilization Of Gym Workout	7000/-	ME	2012-13

**3.2.4 How does the various departments/units/staff of the Institute interact in undertaking inter-disciplinary research? Cite examples of successful endeavors and challenges faced in organizing interdisciplinary research.**

The R and D cell has initiated 'idea sharing' event held on every Saturday to interact and share their ideas. Through this platform the staff of the Institute involved in the research activity will present their area of research, scope and technological applications. The staff has submitted the following research proposal

1. Waste water Management
2. Rain water harvesting
3. Efficient full energy resource (bio-diesel, Fuel Cell etc)
4. Solar power plant (solar park)
5. Software design for classification of mitral regurgitation
6. Design of tool box for despeckling, enhancement and segmentation of eco-cardio graphic images in multiple views and modalities

**Successful story:**

Technical Institution is the unique platform to explore the possibility of interdisciplinary research activity as the Institute possesses the faculty of various stream and branches along with applied science faculty. The diversified of faculty at our esteemed Institute has the faculty from Electronics and electrical engineers, civil engineers, Mechanical Engineers, Chemical engineering, Computer science and Engineers and Applied Science. The new branch such Mechatronics, harnessing the power of computer for instrument interfacing, application of computers in civil construction are the few outcome examples of the interdisciplinary activity. Our staffs are involved to enhance the quality of the technology using this field. Mathematics plays a vital role in effective implementation of any technological applications.

The successfully story of these work is presented and published and details of the same is given below.

**Challenges:** The world is shifting its paradigm from manually to fully technological automation. Improvement of the technology or creating a new technology is the challenges in front of the technocrats. The research issues are made ease by involving more and more interdisciplinary expertisation. Solving the challenges of the technology is being achieved by involving the more and more staff in the activity.

**3.2.5 How does the institution ensure optimal use of various equipment and research facilities of the institution by its staff and students?**

Sl. No	Dept	Name of the Instrument / Specification	Application	Optimal Utilization
01	Civil	UTM	Concrete and steel testing: compressive, flexure, tensile strength of materials.	The researcher from various department like Mechanical, applied science, electronics department staff and students are using this facility for research purpose.

**3.2.6 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facility? If 'yes' give details.**

Table: 3.2.6.1 Project Details

Sl. No.	Title of the project	PI	Funding Agency	Period	Amt sanctioned (Lacs)	Spend (Lacs)	Balance (Lacs)
01	Modernization of IC Engine Lab	Prof. Sanjeev Doijode	MODROB, AICTE New Delhi	2012-13	6.95	6.95	---
02	Modernization of CIM & Automation Lab	Prof. C. Molkere	MODROB, AICTE New Delhi	2013-14	14.50	14.50	---
03	Modernization of IC Engine Lab	Prof. Anil Patil	MODROB, AICTE New Delhi	2013-14	14.11	14.11	---
04	Boundary layer theory, MHD flows, visco-elastic fluid flows, power law fluids over a stretching sheet with/without porous medium.	Dr. Ashok kumar Koti	VGST Bengaluru	2014-15	30	10	20
05	Synthesis, Characterization, Electrical and Biological studies of Metal Complexes of some Trizole Schiff	Dr. Vijay kumar Durg	VGST Bengaluru	2013-14	20	10	10

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	basis.						
06	Center of excellence in Polymer Science & Engg.	Dr. Sangshetty Kalyane	VGST Bengaluru	2013-14	30	10	20
07	Development of Energy Spectrometer to Measure Energy of Radiation Concentration	Dr. Udaykumar Khadke	VGST Bengaluru	2013-14	20	10	10
08	Boundary layer theory for Newtonian, non-Newtonian fluids, Nano-fluids of momentum, heat and mass transfer over a stretching sheet.	Dr. Jagadish Tawade	VGST Bengaluru	2013-14	06	06	---
09	Design of photonic communication system	Dr. Sanjaykumar Gowre	VGST Bengaluru	2014-15	20	10	
10	A Solution for the Remediation of Hazardous Arsenic in Ground Water of Hyderabad – Karnataka Region	Dr. M. A. Devani	VGST Bengaluru	2015-16	20		20

### 3.2.7 Enumerate the support provided to the faculty in securing research funds from various funding agencies, industry and other organizations. Provide details of ongoing and completed projects and grants received during the last four years.

The Institute encourages the staff to plan and prepare the research proposal and enable them to submit the same to various funding agencies like, state govt. Funding agencies, central govt. Funding agencies and reputed industries. The Institute has excellent Library facilities that are being utilized for the research survey and for the preparation of proposals.

Table: 3.2.7 On-going and completed Research projects and grants received to the Institute

Sl. No.	Title of the project	Total Cost	Agency	Period of the project
01	Photonic devices for optical networks	10 lacs	VTU Belagavi	2010-11

### **3.3 INFRASTRUCTURE FOR RESEARCH**

#### **3.3.1 What are the research facilities available to the students and research scholars within the campus?**

The Institute is having the UG, PG and PhD programmes with all resources like Research laboratory, regular laboratories, library, and digital library and modernized computer lab especially for research and project works for the students.

##### **e-journal details:**

The faculty of the Institute are guiding research activities and to create an environment for innovative practices in different sphere for maintaining and sustaining the quality parameter for the students of the Institute. Internet connectivity and Wi-Fi facility is also available for the students and faculty to enable them to review their academics as well as their research programs.

#### **3.3.2 What are the institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research?**

User friendly infrastructural facilities are available in the campus with library, Canteen, in-campus Boys and Girls hostel, Guest room, 24 hours security, well equipped laboratories, Girls' common room, lavatory etc. Institution has provided a dedicated space for the research activity.

A separate Research and Development Cell has been established that includes eminent Professors to facilitate research and promote research culture among the students and faculty. Attempts are on to invite and involve industries in the state and outside for inputs and financial support. The faculty and students regularly visit to the industries and research Institute to get acquainted with research and industrial problems.

#### **3.3.3 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facilities? If 'yes', what are the instruments/facilities created during the last four years.**

The Institute has received special grants for establishing and upgrading the lab facility. Different govt. funding agencies like, VGST, KSCST, AICTE, DST etc. to facilitate the infrastructure. Following instruments have been procured and installed in the respective departments during the last four years, that are made available to the researchers. List enclosed as 3.2.6

**3.3.4 What are the research facilities made available to the students and research scholars outside the campus / other research laboratories?**

The faculty of the Institute has developed a good rapport with other national facility for their research activity. The faculty of the Institute has used frequently the international facility such as Accelerator facility at inter university accelerator (IUAC) New Delhi, Microtron facility at Mangalore University and Pune University, Sample preparation at Crystal Growth Centre Anna University Chennai, facilities of IISc, Bengaluru, IIT Kharagpur and IIT Roorkee are used for getting award of Ph.D.

The students of BKIT are regularly visiting to various universities like, Karnataka University Dharwad, Gulbarga University Kalaburgi, VTU affiliated Institute to carry out their research work required to complete the Ph.D. work.

**3.3.5 Provide details on the library/ information resource centre or any other facilities available specifically for the researchers?**

The following facilities are available in the main library for the researchers:

- Books on research methodology
- National/International scientific reports
- State/national level database books/CDs
- Back volume, hard bound and soft copy/printed (e-Journals)
- Computers with Wi-Fi internet connection, uninterrupted power supply
- Reprographic facility for rarest copies
- Seminar proceedings

**3.3.6 What are the collaborative researches facilities developed / created by the research Institutes in the institute? For ex. Laboratories, library, instruments, computers, new technology etc.**

The INSTITUTE has developed, research facility and centre of excellence in material / polymer science and technology and other related infrastructure facilities which can be used by all the departments in a collaborative manner for teaching as well as research:

Integrated research laboratory for science and engineering departments is equipped with advanced and calibrated instruments.

- VTU network resource centre in library (information required)
- Library with reading room
- Smart class room
- Seminar hall

### **3.4 RESEARCH PUBLICATIONS AND AWARDS**

#### **3.4.1 Highlight the major research achievements of the staff / students in terms of**

- Patents obtained and filed (process and product): **No**
- Original research contributing to product improvement: **No**
- Product related thesis : **No**
- Research studies or surveys benefiting the community or improving the services: **Yes**
- Research inputs contributing to new initiatives and social development. : **Yes**

#### **3.4.2 Does the Institute publish or partner in publication of research journal(s)? If 'yes', indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database? **Yes****

Some selected papers of National Conference on Recent Innovations in Engineering and Technology (NCRIET-2015, NCRIET-2016) were published in International Journal on Research in Engineering and Technology (IJRET). The rest of the papers were published in the Conference proceedings jointly published by BKIT and IJRET .

#### **3.4.3 Give details of publications by the faculty and students:**

Publication per faculty : **6**

**Table: 3.4.3 Number of papers published by faculty and students in peer reviewed journals (national / international)**

<b>Sl. No.</b>	<b>Year</b>	<b>Papers Published in International Journal</b>	<b>Papers Published in National Journal</b>	<b>Papers Published in International Conference</b>	<b>Papers Published in National Conference</b>	<b>Total</b>
1	2011-12	31	07	10	11	59
2	2012-13	64	13	13	12	102
3	2013-14	66	31	19	51	167
4	2014-15	106	55	32	36	229
5	2015-16	10	04	00	05	19

- Number of papers published in peer reviewed journals (national /International) by faculty and students:- 576

- Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.): - 358
- Monographs:- Nil
- Chapter in Books:- Nil
- Books Edited:- 02
- Books with ISBN/ISSN numbers with details of publishers:- 01
- Citation Index:- 157
- SNIP:-0.1 to 1.5
- SJR :-0.1 to 0.89
- Impact factor:-0.5 to 3.12
- h-index:-22

**3.4.4 Provide details (if any) of Research awards received by the faculty:**

The Institute motivates their staff to acquire higher degree to upgrade their knowledge and skill. Total 21 faculties have been awarded doctoral degree. Each Department awards and issues a certificate to faculty members and students for outstanding performance in university examination. Details available in ERD of each Department a few of them are listed below:

Sl. No.	Name of the faculty	Thesis/dissertation/Event	Year of award
01.	Bhagyashree	Ultratech Cement Bidar	2015-16
02	Ankit B & Sagar J	TCS-Techbytes Quiz Regional Winner	2015-16
03	Dr. Udaykumar Khadke	Visiting Fellow of JNCASR Bengaluru	2015-16
04	Prasanth K.	Best paper award, Techovision-2016, Technical paper presentation contest held at Govt. College of Engg. Jalgaon. Maharashtra	2015-16
05	Pawan P & Ashay M	TCS-Techbytes Quiz Runner up	2014-15
06	Prasanth K.	Runner up in E-BUZZ-7 event Word war 7 Held at, GNDEC Bidar, Karnataka	2014-15
07	Prasanth K.	Runner up in E-BUZZ-7 event Word war 7 Held at, GNDEC Bidar, Karnataka.	2014-15
08	Harsha Patil	Highest scorer in Concrete Technology, Ultratech Cement Bidar	2014-15
09	Dr. Nagashettappa B	IIT Roorkee	2011-15
10	Sharanbasappa B	Jadavpur University, Kolkata	2011-15
11	Ropangshu & Nagendra	TCS-Techbytes Quiz Regional Winner	2012-13
12	Dr. M. A. Devani	International Conference on "Frontiers in Chemical Engineering" (ICFCE -2013)	9-11 Dec. 13
13	Dr. Udaykumar Khadke	CSIR-SRF	2000-04

Apart from Doctoral degree other recognition is as follows

Sl. No.	Name of the faculty	Award from professional bodies
01	Dr. U. V. Khadke	Visiting Fellow of JNCASR, Bengaluru
02	Dr. A M Bhavikatti	Chairman, IETE Gulbarga Sub Centre
03	Dr. Sanjaykumar Gowre	Secretary, IETE Gulbarga Sub Centre
04	Prof. Dhiraj Deshpande	EC Members IETE
05	Prof. Rajkumar Patil	EC Members IETE

Incentives given to faculty for receiving state, national and International recognitions for research contributions.

The Institute has a best practice of awarding their faculties for the publication of the research finding in peer reviewed journal of high impact factor indexed in Thomas Reuter.

Cash award of Rs.2, 000/- for papers published with impact factor less than 0.5 and felicitation Cash award of Rs.5,000/- for papers published with impact factor greater than 0.5 and lesser than 1.5 Cash award of Rs.10,000/- for papers published with impact factor greater than 1.5

### **3.5 CONSULTANCY**

#### **3.5.1 Give details of the systems and strategies for establishing Institute-industry interface?**

The college has created a benchmark in its own way by getting consultancy and third party verification for any construction and development work.

#### **3.5.2 What is the stated policy of the institution to promote consultancy? How is the available expertise advocated and publicized?**

The management and the authority of our Institute strongly encourages consultancy. The revenue generated by the consultancy will be shared among the faculty and the Institute in 50:50 ratio. Consultancy services range from internal equipment utilization to offering individual expertise to industries. Testing and Design Services (please refer 3.5.4)

#### **3.5.3 How does the institution encourage the staff to utilize their expertise and available facilities for consultancy services?**

BKIT encourages faculty to pursue consultancy during official hours, by reducing their academic workload appropriately. Furthermore in the annual appraisal due importance is given to faculty who involve in effective consultancy work; and they are rewarded either through salary increments and/or promotions.



**3.5.4 List the broad areas and major consultancy services provided by the institution and the revenue generated during the last four years.****a) Consultancy of materials**

Sl. No	Year	Title of Consultancy Project	Funding Agencies Firms/Organization	Amount (INR in Lac)
01	2012-13	Mix Design, Material Testing , Steel, Soil, Estimating & Costing Reports etc	PWD, ZP, TP, NEKRTC, KUWS 7 DB, CADA Kalburgi, DUDC Bhalki, Sharda Construction Nanded, Laxmi Construction Kolhapur, and PMGSY Bidar.	0.99
02	2013-14	Mix Design, Material Testing , Steel, Soil, Estimating & Costing Reports etc	PWD, ZP, TP, NEKRTC, KUWS 7 DB, CADA Kalburgi, DUDC Bhalki, Sharda Construction Nanded, Laxmi Construction Kolhapur, and PMGSY Bidar	3.31
03	2014-15	Mix Design, Material Testing , Steel, Soil, Estimating & Costing Reports etc	PWD, ZP, TP, NEKRTC, KUWS 7 DB, CADA Kalburgi, DUDC Bhalki, Sharda Construction Nanded, Laxmi Construction Kolhapur, and PMGSY Bidar	3.99
04	2015-16	Mix Design, Material Testing , Steel, Soil, Estimating & Costing Reports etc	PWD, ZP, TP, NEKRTC, KUWS 7 DB, CADA Kalburgi, DUDC Bhalki, Sharda Construction Nanded, Laxmi Construction Kolhapur, and PMGSY Bidar	4.16

**b) Third Party Inspection Works:**

Sl. No.	Year	Title of Consultancy Project	Funding Agencies	Amount (INR in Lacs)
01	2012-13	CC Road, CC drain, Water pipeline, bore wells , buildings and electrical works,	Taluka Panchayat Bhalki & TMC Humnabad	2.38
02	2013-14	CC Road, CC drain, Water pipeline, bore wells , buildings and electrical works,	Taluka Panchayat Bhalki & TMC Humnabad	3.81
03	2014-15	CC Road, CC drain, Water pipeline, bore wells , buildings and electrical works,	Taluka Panchayat Bhalki & TMC Humnabad	7.96
04	2015-16	CC Road, CC drain, Water pipeline, bore wells , buildings and electrical works,	Taluka Panchayat Bhalki & TMC Humnabad	9.30

**3.5.5 What is the policy of the institution in sharing the income generated through consultancy (staff involved: Institution) and its use for institutional development?**

The staffs are encouraged to take-up the consultancy work at the Institute, further they are benefited by the remuneration fixed as follows:

Sl. No.	Head	% of share amount
01	College	50
02	Principal	02
03	Head of the Department	04
04	Testing officer	20
05	Testing Assistance	12
06	Office staff	04
07	Attender/peon	08

**3.6 INSTITUTIONAL SOCIAL RESPONSIBILITIES (ISR) AND EXTENSION****3.6.1 How does the institution promote institution-neighborhood-community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?**

The Institute regularly organizes different extension activities in and outside the campus throughout the year to engage the students in different community oriented activities to instill the importance and a sense of social responsibility, service orientation, ethical and holistic development of the students.

The Institute conducts the training to the teacher of nearby high schools, PDO's, high school students-internet world program, water testing, material test etc., with no / nominal charges basis. The Institute has NSS unit of 100 volunteers with a trained faculty member as the Programme Officer. NSS organizes/participates/observes different activities/ programmes as part of regular activities and special camp activities and also participates in many programmes organized by different social organizations and sub-divisional units.

**3.6.2 What is the Institutional mechanism to track students' involvement in various social movements/activities which promote citizenship roles?**

The Institute encourages the students to involve in various social movements/ activities through participation in numerous activities organized by NSS/departmental association. The leadership temper is induced among the students to effectively arrange and organize the social activities.

**3.6.3 How does the institution solicit stakeholder perception on the overall performance and quality of the institution?**

Students are encouraged to join any one of these extension activities:

- (i) National Service Scheme (NSS)
- (ii) Youth red cross unit (YRC)
- (iii) Lead programme from Deshpande foundation

By circulating a form during the admission in First Year class. The regular activities and annual special camp are being organized by the NSS unit wherein they learn to take up social responsibilities and become responsible citizen of the country. The NCC (Sister Institution) cadets are given basic military training in small arms and parades in special camps to develop overall qualities among the students and to make them useful citizen.

All departments and different association/committees/wing organize a number of seminars/workshop/ discussions. They also celebrate important days of national and international importance. Students are also motivated to participate in different seminars/workshops and discussions to give them exposure to current societal problems and generate awareness regarding their roles and responsibilities in society.

**3.6.4 How does the institution plan and organize its extension and outreach programmes? Providing the budgetary details for last four years, list the major extension and outreach programmes and their impact on the overall development of students.**

The Institute always solicits the stakeholder perception on the overall performance and quality of the institution. The Institute gets feedback on its academic curricular, co-curricular and extra-curricular activities from the stakeholders, management and peers from academic circles visiting the Institute and in different meetings. Regular meetings with faculty, different committees/units, HODs are conducted under the chairmanship of the Principal in which different issues about over all development of the Institute are discussed. The student representative can directly put their suggestions and issues to their local guardian. Students/alumni/parents/guardians are always free to put their suggestions to the Principal, to the Head of the Department & Student welfare officer.

**3.6.5 How does the institution promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International agencies?**

The institution has an active NSS group headed by a trained NSS programme officer. Every year the volunteer are selected based on first come first basis. The Enrolled list of students is prepared and maintained. The activities conducted by the NSS unit for social benefit is described in 3.6.6.

**3.6.6 Give details on social surveys, research or extension work (if any) undertaken by the INSTITUTE to ensure social justice and empower students from under-privileged and vulnerable sections of society?**

1. Rural Human and Resource development Facility (RHRDF)
2. ICT Enable School Education
3. Agro Challenge
4. Artwork for employment Generation
5. Agriculture waste to product for self-help groups
6. Outreach of the activities
7. Organization of social awareness events NSS (regular activities, Special camps Blood Donation Camp, Health Awareness).

**Details of NSS activities conducted during the academic year 2015-16**

Sl. No	Activity	Date
1	International Yoga Day Celebration	21-06-2015
2	National Sadbhavana Day Celebration	20-08-2015
3	Voluntary Blood Donation Camp on the occasion of National Sadbhavana Day	20-08-2015
4	NSS Foundation Day Celebration	24-09-2015
5	Special Talk on Personality Development on the occasion of 153 <sup>rd</sup> Birth anniversary of Swami Vivekananda.	12-01-2016
6	NadiParikshana Camp ( Health Check-up camp)	28-01-2016
7	International Women's Day Celebration	21-03-2016

**Details of NSS activities conducted during the academic year 2014-15.**

Sl. No	Activity	Date
1	Special Talk on Personality Development on the occasion of 152 <sup>nd</sup> Birth anniversary of Swami Vivekananda. Sri Abhayanandji Maharaj Centre in charge Swami Ramakrishna Vivekananda Vedantashram, Bengaluru delivered the talk.	31-01-2015
2	Free Eye and Dental Check-up camp	23-02-2015

3	National Education Day Celebration on the occasion of birth anniversary celebration of Sri MoulanaAbulKalam.	11-11-2014
4	Observance of, “International Student Day”	17-11-2014
5	Free Health Check-up Camp on the occasion of 46 <sup>th</sup> NSS Foundation Day	27-09-2014
6	Engineers Day Celebration	15-09-2014
7	National Sadbhavana Day Celebration	20-08-2014
8	NSS Foundation Day Celebration	24-08-2014

**Details of NSS activities conducted during the academic year 2013-14.**

Sl. No	Activity	Date
1	Free Dental Check-up Camp	20-03-2014
2	Free Eye Check-up Camp	24-03-2014
	“Yoga Shibir” in association with Art of Living Foundation, Bengaluru.	22-03-2014
3	Seven Day’s Special Camp	18-03-14 to 24-03-14.
4	NSS Volunteers participated in the, “State Level NSS Youth Festival” organized By Gulbarga University, Gulbarga.	18-22 Jan 2014
5	National Sadbhavana Day Celebration	20-08-2013
6	Engineers Day Celebration	15-09-2013
7	NSS Foundation Day Celebration	24-09-2013
8	Blood Donation Drive Training Program in association with Sankalp India Foundation, Bengaluru.	16-09-2013
9	Voluntary Blood Donation Camp	09-11-2013

**Details of NSS activities conducted during the academic year 2012-13.**

Sl. No	Activity	Date
1	Free Dental Check-up Camp at Halbarga village	15-02-2013
2	Voluntary Blood Donation Camp	09-11-2012
3	Blood Donation Drive Training Program in association with Sank alp India Foundation, Bengaluru.	16-09-2012
4	Engineers Day Celebration	15-09-2012
5	NSS Foundation Day Celebration	24-09-2012
6	Tree Plantation at BKIT, campus(Second phase)	04-09-2012
7	13 <sup>th</sup> Smranotsava Celebration of Poojya sri Dr. Ma. Gha. Cha. Channabasava Pattadevaru	22-04-2012
8	Tree Plantation(First phase)	17-08-2012
9	National Sadbhavana Day Celebration	20-08-2012

Others:

**Competitive examinations:**

Service in conducting the competitive and recruitment examinations for the students of the Institute and other institution competitive exams, TCS, IBPS, KPSC, GATE, etc.

1. Job Mela
2. Skill development training programme
3. Computer literacy programme

**3.6.7 Reflecting on objectives and expected outcomes of the extension activities organized by the institution, comment on how they complement students' academic learning experience and specify the values and skills inculcated.**

Along with academic learning, students are encouraged to participate actively in the extension activities organized by the extension activity units of the Institute. The NSS activities provide diversified opportunities to the students to develop their personality through community service. These activities help to inculcate their awareness about social responsibilities. "Swach Bharath Abhiyan" is about cleaning the surroundings are regularly organized in the Institute campus and in different places to give the message to the other students and to the community regarding the cleanliness. Discussions are regularly arranged in the Institute by the NSS unit to generate awareness among students regarding optimal use of natural resources, electricity and other various social issues and challenges. Various community development programmes such as health awareness campaign, environmental awareness campaign, discussions etc. organized by the NSS unit helps to develop social networking skills.

The Science Forum activities generate scientific awareness, develop critical thinking and create scientific temper among the students. This process of learning is not only a desirable supplement to the students' academic learning through classroom education but develops a sense of responsibility, tolerance and cooperation among the students.

**3.6.8 How does the institution ensure the involvement of the community in its reach out activities and contribute to the community development? Detail on the initiatives of the institution that encourage community participation in its activities?**

The Institute and local community share a very good rapport and are in constant touch with each other. Besides, public representatives, expert doctors of district hospital, various departmental officials, NSS sub-divisional committee, NGOs help the Institute with their expertise time to time on various extra-curricular and extension and outreach activities

/programmes of the Institute. Department staff and students association and activities. Some of the major initiatives undertaken by the institute involving various communities are given in 3.6.6:

**3.6.9 Give details on the constructive relationships forged (if any) with other institutions of the locality for working on various outreach and extension activities.**

The Institute NSS unit has good relationships with the following institutions/ organizations of the locality for working on extension activities:

1. NSS units of sister institution,
  2. NCC unit of sister institution
- Blood Donation Camp in association with district blood bank and sankalp
- Free Health Check-up
  - Disaster management team

**3.6.10 Give details of awards received by the institution for extension activities and/contributions to the social/community development during the last four years.**

Proof or letter of

1. Appreciation letter received from company visited to the campus
2. Appreciation letter received for conduction of various examinations for students.

### **3.7 COLLABORATIONS**

**3.7.1 How does the institution collaborate and interact with research laboratories, Institutes and industry for research activities. Cite examples and benefits accrued of the initiatives - collaborative research, staff exchange, sharing facilities and equipment, research scholarships etc.**

At present the Institute has established collaborations with research laboratories like, IIT, IIIT, VTU affiliated institutions, IISc, JNCASR, Amrita University and reputed industries for research and development activities. Some of the faculty members, being the research scholars of reputed intuition of the country to get support to use the national research laboratories. The faculty members are facilitated to apply for research scholarships individually to different funding agencies. University staff members pursuing Ph.D. like CMR.

**3.7.2 Provide details on the MoUs/collaborative arrangements (if any) with institutions of national importance/other universities/industries/ Corporate (Corporate entities) etc. and how they have contributed to the development of the institution.**

Sl. No	Institute/ Industries	Contact Person	Details	Year of Signing
1	Preva Systems, Bengaluru	Mr. Sharan K. M.D.	Internet of Things, Centre of Excellence	2016
2	Pro-SIM R & D Pvt. Ltd., Bengaluru	Mr. Chidanand G., Technical Head	Pro-SIM learning centre	16/05/2016
3	COPEs Tech. India Pvt. Ltd., Bengaluru	Mr. Rajesh Deshilinge Gowda, M.D.	COPEs Tech. India Pvt. Ltd.,	05/01/2016
4	IIT Rorkee	Dr. Vinod Kumar, Deputy Director and Professor, Dept of EE, IITR	VLabs,	2015
5	IIIT, Hyderabad	Dr. Venkatesh Chopalla, Professor, Dept of CS, IIITH	VLabs, IIIT, Hyderabad	2015
6	Amrita University	Mis. Shilpa Selvan	VLabs,	2015
7	MEDINI, Bengaluru	MEDINI Bengaluru	MEDINI Bengaluru	06-04-2013
8	SPHR solutions, Mumbai	Rahul Desai, Director	SPHR solutions Pvt. Ltd. Mumbai	03-08-2011

**3.7.3 Give details (if any) on the industry-institution-community interaction that have contributed to the establishment /creation /up gradation of academic facilities, student and staff support, infrastructure facilities of the institution viz. laboratories / library /new technology / placement services etc.**

Yes, such interaction has been resulted into the need of development of facility.

**3.7.4 Highlighting the names of eminent scientists/participants who contributed to the events, provide details of national and international conferences organized by the institute during the last four years.**

Sl. No.	Department	Name of the eminent scientist/participants	Event	Dates
1	IISc, Bangaluru	Dr. Narsimhan	Solar Cooling.	Feb 2016.
2	Director, Gitam University Hyderabad.	Dr. N.Siva Prasad	Faculty Development programme on Practical approaches in CAED & FEM -March 2016	Mar-16
3	Scientist F, ISRO Bengaluru	Mr. Daurukesh BHM	Opportunities & Challenges for Engineers	2015
4	MRC IISc, Bengaluru	Dr. Arun M Umarji	R & D Project proposal	Feb-16



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5	Professor (Rtd), Dept. of Mathematics, Gulbarga University, Kalaburgi.	Dr. M. Subhas Abel	Recent trends in Fluid Mechanics for the faculties	May-16
6	Prof. & Head, Dept. of mathematics, V.G.Womes Degree College, Kalaburgi	Dr. Veena P H	Innovative ideas in teaching and Learning skills for faculties	May-16
7	CEDOK, Dharwar	Jagadish Y.	Entrepreneurship awareness camp	2016
8	General Manager, MYLON Hyd	Peer Ahmad,	Role of Chemical Engineers in Pharmaceutical Industries	03.02.2016
9	HireEx, Mumbai	Rishi , Ashok Kumar, Tamanna, Afroz, Zeenet	Campus recruitment training	2016
10	Deshpande foundation, Hubballi	Neelkant	Leadership & Entrepreneurship	03.02.2016
11	RYMC, Bellary	Dr. Savita Sonali	Biomedical Signal Process Sing	12 Mar. 2016
12	SGBIT, Belgaum	Dr. K. Prabhushetty	Signal Processing	12 Mar. 2016
13	Manager, Lead Nation Telangana	Shruti G.	National Conference on Women Empowerment (NCWE-2015)	29-30 Mar., 2015
14	ASP, Bidar	Sangeeta P	National Conference on Women Empowerment (NCWE-2015)	29-30 Mar.2015
15	Civil Judge, Bidar	Praveen B	National Conference on Women Empowerment (NCWE-2015)	29-30 Mar. 2015
16	Civil Judge, Bidar	Ujwal V	National Conference on Women Empowerment (NCWE-2015)	29-30 Mar. 2015
17	Professor, Applied Electronics, Gulbarga University, Gulbarga.	Dr. S. N. Mulge	Second National Conference on Recent Emerging Innovations and Technology (NCRIET-2015)	7-8 Nov., 2015
18	Scientist G, DLRL, Hyderabad.	Dr. Hara Prasad	Second National Conference on Recent Emerging Innovations and Technology (NCRIET-2015)	7-8 Nov., 2015
19	Former Special Officer, VTU, RO Kalaburagi	Dr. Venkatesh Kulkarni	Second National Conference on Recent Emerging Innovations and Technology (NCRIET-2015)	7-8 Nov., 2015
20	Special Officer, VTU, RO Kalaburagi	Dr. Basavaraj Gadgay	Second National Conference on Recent Emerging Innovations and Technology (NCRIET-2015)	7-8 Nov., 2015
21	International Basket Ball	Dr. Reshma	National Conference on	29-30 Mar.

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	Player and PG Co-ordinator, Maharani Women PG College, Mysuru	Chengappa	Women Empowerment (NCWE-2015)	2015
22	Solution Manager, Geo-Metric Ltd. Pune	Mr. Subhash Beerge	3D-Printing and connected cars-Oct. 2015	Oct. 2015
23	PDACE Kalaburgi	Dr John U. Kenedy	Invited talk	July,2015
24	Consultant, Bhutan	Rahul Sethi	Latest Trends in Chemical Industries	2015
25	Free Lancer, Udgir	Trimbak Pawar	Personality development	2015
26	Belgavi	Dr. S. Pilli	Problem Solving in Engg. Context	10.04.2015
27	Prajapati Brahmakumari Ishwari Vishwa Vidyalaya, Rajastahn	B. K. Veena	Enhancing inner strength	2015
28	Chettinad Cement Chincholi Kalaburgi	Shree Sanjeev kumar	Employability of Chemical Engineers	2015
29	PDACE Kalaburgi	Dr. Sridhar Pandey	Fuel cells	2015
30	Professor, Faculty of Civil Engineering, U.V.C.E, Bengaluru University, Bengaluru	Dr. L. Govindaraju	Two Days National Level Workshop on Earthquake resistant Practices in Civil Engg. (ERPCE 2015)	9-11 Mar. 2015
31	Professor, Faculty of Civil Engineering, U.V.C.E, Bengaluru University, Bengaluru	Dr. Chethan k	Two Days National Level Workshop on Earthquake resistant Practices in Civil Engg. (ERPCE 2015)	9-11 Mar. 2015
32	Special Officer, VTU, RO Kalaburgi	Dr. Basavaraj Gadgay	Two Days National Level Workshop on Earthquake resistant Practices in Civil Engg. (ERPCE Gadgay2015)	9-11 Mar. 2015
33	Director and Head, Learning and Development, Hyderabad	Dr. P.G. Shastry	Engg. Mechanics to B.E. I and II semester students	2015
34	Director and Head, Learning and Development, Hyderabad	Dr P.G. Shastry	Ground water Hydrology for UG and PG students	2015
35	PDACE, Gulbarga	Dr. Basavaraj Amarapur	Image Processing	01Feb.2015
36	Senior Scientist, DRDO, Hyderabad	Dr. D.G. Rao	National Conference on Recent Emerging Innovations and Technology (NCRIET-2014)	3 & 4 May, 2014
37	Dean, Faculty and Professor, Department of EEE, IIT Roorkee	Dr. Vinod Kumar	National Conference on Recent Emerging Innovations and Technology (NCRIET-2014)	3 & 4 May, 2014
38	Head, Department of Mechanical Engg. B.E.C., Bagalkot.	Dr. S. N. Kurbet	National Conference on Recent Emerging Innovations and Technology (NCRIET-2014)	3 & 4 May, 2014

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39	Wipro Tech, Hyderabad	G Gourishanker	National Conference on Recent Advances in Science and Technology (NCST-2014)	22-23 Mar, 2014
40	Vice Chancellor, IIIT Hyderabad.	Dr. R V Rajakumar	National Conference on Science & Technology-2014	22-23 Mar. 2014
41	Professor, Applied Electronics, Gulbarga University, Gulbarga.	Dr. S. N. Mulge	National Conference on Recent Advances in Science and Technology (NCST-2014)	22-23 Mar 2014
42	Sr. IT Manager ,CMC Limited, Hyderabad	Mr. Uma Maheshwar	National Conference on Recent Advances in Science and Technology (NCST-2014)	22-23 Mar, 2014
43	IIIT, Hyderabad	Dr. Suryakanth G	VTU-VGST sponsored FDP on “Future Research Trends & Innovations in Information Communication & Technology” during 8 <sup>th</sup> to 11 <sup>th</sup> May 2014	8-11 May 2014
44	IIIT Hyderabad	Dr. RamaMurthy	VTU-VGST sponsored FDP on “Future Research Trends & Innovations in Information Communication & Technology” during 8 <sup>th</sup> to 11 <sup>th</sup> May 2014	8-11 May 2014
45	IIIT Hyderabad	Dr. Anil V	VTU-VGST sponsored FDP on “Future Research Trends & Innovations in Information Communication & Technology” during 8 <sup>th</sup> to 11 <sup>th</sup> May 2014	8-11 May 2014
46	IIIT Hyderabad	Dr. Siddarama Patil	VTU-VGST sponsored FDP on “Future Research Trends & Innovations in Information Communication & Technology” during 8 <sup>th</sup> to 11 <sup>th</sup> May 2014	8-11 May 2014
47	HCL Technologies	Mr. Madhukeshwar	VTU-VGST sponsored FDP on “Future Research Trends & Innovations in Information Communication & Technology” during 8 <sup>th</sup> to 11 <sup>th</sup> May 2014	8-11 May 2014
48	Winslow Systems, Bengaluru	Mr. Veeresh N	VTU-VGST sponsored FDP on “Future Research Trends & Innovations in Information	8-11 May 2014

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			Communication & Technology” during 8 <sup>th</sup> to 11 <sup>th</sup> May 2014	
49	UTC Aerospace, Bengaluru	Mr. Arvind	VTU-VGST sponsored FDP on “Future Research Trends & Innovations in Information Communication & Technology” during 8 <sup>th</sup> to 11 <sup>th</sup> May 2014	8-11 May 2014
50	PG Coordinator, VTU Regional Office Kalburgi.	Dr.Venkatesh Kulkarni	National level Workshop on “Computational Fluid Dynamics & Multi-Body Dynamics simulation & Analysis” -March 2014.	March 2014.
51	Principal SDM College of Engineering and Technology,Dharwad.	Dr.Mohan Kumar	Summer school on Recent practices in CAE & Automation- April 2014.	April 2014.
52	VGST, Dept. of IT, BT and S & T, Govt. of Karnataka, Bengaluru	Dr. S. Ananth Raj	R & D Project proposal	Mar-14
53	NIT Raipur	Dr. AKhilesh K.	Invited talk	Feb, 2014
54	PDACE Kalaburgi	Dr. S. R. Pandey	Chief Guest	18-19 Mar 2014.
55	Research Scientist, TNO, Stieltjesweg 1 2628 CK Delft Netherlands	Dr. Maharudrayya	Invited talk	May-12
56	SGGS Nanded	Dr. B.M. Patre	Two Day National Level Workshop on “Research Methodology”	18-19 Mar 2014.
57	SGGS Nanded	Dr. Suhas Gajre	Two Day National Level Workshop on “Research Methodology”	18-19 Mar 2014.
58	SGGS Nanded	Dr. Manthalkar Ramchandra	Two Day National Level Workshop on “Research Methodology”	18-19 Mar 2014.
59	Senior Software Engineer, Bangalore	Rajeshkar Reddy Masi	Industry Institute Interaction on VLSI Design, Embedded System & Telecommunication	27 & 28 Sept. 13
60	Preva systems, Bengaluru	Sharan K	Industry Institute Interaction on VLSI Design, Embedded System & Telecommunication	27 & 28 Sept. 13
61	System architect, Wipro, Bengaluru	Radhesh	Industry Institute Interaction on VLSI Design, Embedded System & Telecommunication	27 & 28 Sept. 13
62	Scientist, DRDO, Hyderabad.	Sachhidanand Das	Finite Element Techniques and its industrial applications-	Mar-13

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			March 2013	
63	Dalmia Cement Research Institute	Dr. Sandeep M.	Invited talk	April, 2013
64	Mysore University, Mysore.	Dr. Nagabhushan	International Conference on Communication, Computation, Control & Nanotechnology (ICN)-2011	23-25 Sept, 2011
65	IDRBT Hyderabad.	Dr. Babu M	International Conference on Communication, Computation, Control & Nanotechnology (ICN)	23-25 Sept, 2011
66	IBM, USA.	Dr. Sharat Chandra C	International Conference on Communication, Computation, Control & Nanotechnology (ICN)	23-25 Sept, 2011
67	Ookland University, USA.	Dr. IshwarSethi	International Conference on Communication, Computation, Control & Nanotechnology (ICN)	23-25 Sept, 2011
68	Peradeniya University, Kandy, Sri Lanka	Dr. M A R M Fernando	International Conference on Communication, Computation, Control & Nanotechnology (ICN)	23-25 Sept, 2011
69	Jawaharlal Nehru Technological University, Hyderabad.	Dr. B Chakravarthy	International Conference on Communication, Computation, Control & Nanotechnology (ICN)	23-25 Sept, 2011
70	MIT, Delhi.	Mr. Krishanan	International Conference on Communication, Computation, Control & Nanotechnology (ICN)	23-25 Sept, 2011
71	Professor ECE Department, B.V.B. Hubli	Dr. Anil Kumar Nandi	One Day workshop on Ultra low power MSP430-2012	23-25 Sep., 2011
72	Xlinix Hyderabad	Santosh W	Industry Institute Interaction on VLSI Design, Embedded System & Telecommunication	23-25 Sept., 2011
73	IIT, Varanasi	Dr. Kishor	Industry Institute Interaction on VLSI Design, Embedded System & Telecommunication	23-25 Sept, 2011
74	University of Buffalo, USA.	Dr. Venu Govindraju	International Conference on Communication, Computation, Control & Nanotechnology (ICN)-2011	23-25 Sept., 2011

**3.7.5 How many of the linkages/collaborations have actually resulted in formal MoUs and agreements? List out the activities and beneficiaries and cite examples (if any) of the established linkages that enhanced and/or facilitated.**

The Institute has signed MOUs and agreements.

The Institute has linkages with some institution/organization that enhanced and/or facilitated as under:

Sl. No.	Nature of Linkage	Name of the Department	Name of the organization
01	IONX	T and P cell	TCS, Banagalore
02	Virtual Lab	E and C department	IIT Roorkee
03	Internship on job training Summer placement	T and P cell and All 7 Department	Various Industry Persons
04	Faculty exchange and development programme	All departments	In house and Industry
05	Research	VGST, VTU, AICTE, DST	AS & H, ECE, CHEM, MECH,
06	Consultancy	Civil, Mechanical	Govt. and Pvt. agency
07	Extension:	NSS	NSS, BKIT, Bhalki
08	Total publications	576 in last four years	Faculty members of BKIT Bhalki
09	Total Placement	459	
10	Dual degree program	NIL	
11	New Courses	NIL	
12	Student exchange programme	NIL	
13	Other, if any		

**3.7.6 Detail on the systemic efforts of the institution in planning, establishing and implementing the initiatives of the linkages/ collaborations.**

The Institute has linkages in curricular aspects, in extension activities and for research funding (Refer to 3.7.5).

## **CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES**

### **4.1 Physical Facilities**

The physical facilities in technical institution play a vital role in effective transfer of knowledge and services to all the stakeholders.

- BKIT made sincere efforts to ensure adequate infrastructure facilities in the institution as per AICTE, VTU norms.
- Care full planning and timely implementation of plans has best owed state-of-the-art facilities in the campus.
- The institute is located in a 34 Acres 33 Guntas of sprawling campus situated 40 Km away from the district head quarter having good connectivity with bus and rail facilities.

#### **4.1.1 What is the policy of the institution for creation and enhancement of Infrastructure that facilitate effective teaching and learning?**

- The institute administration interacts frequently with teachers, alumni, students and parents about the changing trends and requirements for creation and enhancement of the infrastructure. As a part of the campus redevelopment project, a new state-of-the art campus considering the present and future requirements is provided. This has ensured adequate availability of physical infrastructure.
- Plan and optional utilization of the available infrastructure are:
- All our activities are brought under AICTE, VTU quality system. By assessing the requirements and availability periodically through reviews, the infrastructure is optimally utilized.
- Common facilities like central library, first year laboratories and auditorium are utilized by all departments and each department is having its individual seminar hall and browsing centre for student and staff.
- Library has long working hours with internet facility.

**4.1.2 Details of the facilities available for a) Curricular and co-curricular activities – classrooms, technology enabled Learning spaces, seminar halls, tutorial spaces, laboratories, botanical garden, Animal house, specialized facilities and equipment for teaching, learning and research etc.**

**Table No.4.1.2 a) Details of Curricular and Co-curricular activities**

Sl.No.	Facility Available	Details of the facility available
1	Class Rooms	The college has 58 class rooms as per AICTE, VTU norms. They are well equipped with Dias, Desks, Platform, Fans, Tube lights, Green board, P4 System and LCD Projector, Podium, curtains.
2	Tutorial Rooms	All departments have provision for tutorial rooms with Desks, Green board, Fans, Tube lights, Table, chairs
3	Technology enabled learning spaces	To encourage the students to utilize the various Software's available with the departments, the laboratories are equipped with high end Personal Computers. In addition to this all laboratories are connected to central server through LAN which provides internet facility of four independent broad band lines with 5 Mbps speed and two independent leased line of 10 Mbps. The college campus also has Wi-fi connectivity including the hostels
4	Seminar Hall	Seminar Hall equipped with Dais, Chairs, White board, Table, Podium, P.A. system, Fans, AC, light, LCD Projectors etc. Each Dept. having separate seminar hall
5	Laboratories	All labs are equipped with adequate instruments/equipments to meet the curriculum as well as Program Outcomes. Also these laboratories are used for UG and PG level research work. The college also has research laboratories for research related work.
6	Faculty Rooms	As per the AICTE requirement individual/shared faculty rooms are provided. Faculty rooms also have been equipped with the required facilities such as PC, LAN connection, furniture etc.
7	Meeting Room	Every department has meeting room to take a review of academic matters.
8	Electricity and Power Backup	The college has wide spread arrangements for power connections with a central substation, Control panel and Power room. Breakers are available at substations, control panels in power room. Panels and Distributions boxes are available at Individual Departments. Generator 225 KVA capacity is available in college campus for stand by back up facilities.
9	Telecom facility	The college has created facilities for smooth and fast communication involving intercom phone facility
10	Central Library and Departmental Libraries	Text books, reference books, e-books, magazines, journals, e-journals, projects and seminar reports, video lectures by the experts,



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		university question papers and answer sheets to help students to acquire knowledge and gain technical expertise to interpret, analyze and solve technical problems. Journals, e-journals, project reports and seminar reports motivate the students to tune them for lifelong learning. Central Library and Departmental Libraries have been equipped with the required facilities.
11	Drinking water	The college has water purifying units. The college has an organized supply mechanism for the entire campus and hostels. The college has a water cooler facility at each department and hostels.
12	Periodical Section	Separate periodical section
13	Girls' Reading Room	24 hours reading room facility
14	Boys' Reading Room	24 hours reading room facility
15	Canteen	Two Canteens are available for staff and students.
16	Security	The college has the services of reputable security guards to provide security.
17	Washrooms	Gents and Ladies washrooms are available in Department at proper locations.
18	Transportation Facility	The college has 05 buses to ply students to and from the city to the college and from other places
19	ATM Facility	24 hours ATM facility of State Bank of Hyderabad is available for students and staff members in the Campus.
20	Reprographic facility	Reprographic facility is available for students and staff in the college central library and in front of office premises .
21	Post Office	Post office facility is available for students and staff in the college.
22	State Bank of Hyderabad Extension Counter	State Bank of Hyderabad Extension Counter facility is available for students and staff in the college.
23	Garden	Well planted garden in college premises with green lusting campus.

**b) Extra-curricular activities – sports, outdoor and indoor games, gymnasium, auditorium, NSS, NCC, cultural activities, Public speaking, communication skills development, yoga, health and hygiene etc.**

**Table No.4.1.2 b) Details of Extra Curricular activities**

Sl.No.	Facility Available	Details of the facility available
1	Sports Ground (Outdoor games )	<p>Institute playground sports area is as follows.</p> <ul style="list-style-type: none"> <li>➤ Cricket ground : 68.58 m radius</li> <li>➤ Football ground: 110 m x 75m</li> <li>➤ Volley ball :18 m x 9 m ( 2 courts)</li> <li>➤ Ball badminton : 24 m x 12m</li> <li>➤ Kabbadi :12.50 m x 10</li> <li>➤ Kho-kho facility :29 m x 16 m</li> <li>➤ Athletic track : 400 m std track</li> </ul>
2	Gymnasium	<p>The institute has a well-equipped gym facility. The various equipments available are listed below:</p> <ol style="list-style-type: none"> <li>1. 6 station multiple gym <ul style="list-style-type: none"> <li>➤ Pack-Deck</li> <li>➤ Lat pulley</li> <li>➤ Arm curl</li> <li>➤ Shoulder Press</li> <li>➤ Chin Up</li> <li>➤ Log curl</li> </ul> </li> <li>2. Jogger manual -1No.</li> <li>3. Jogger motorized -01No</li> <li>4. Home gym -01 No.</li> <li>5. T-bar -01 No.</li> <li>6. 3 ft bars -04 No.</li> <li>7. 4 ft bars -04 No.</li> <li>8. 5 ft bars -04 No.</li> <li>9. Bench press bench -01No.</li> <li>10 Inclined Bench -01No.</li> <li>11. Weight Lifting Plarty -300Kg.</li> <li>12. Dumbler -210Kg,</li> <li>13. Flat bench -03 No.</li> <li>14. Twister -01 No.</li> <li>15. Abdominal Conditioner -01 No.</li> <li>16. Thy Extner - 01 No.</li> <li>17. Wrist cendiner -01 No.</li> </ol>
3	Outdoor Games	Cricket, Kho-kho, Basket Ball, Foot Ball, Volley Ball, Kabbadi, and Athletic track games.
4	Indoor Games	Tables Tennis, Badminton , Chess, Carom
5	Auditorium	The auditorium with capacity of 1000 students is available in the college campus
6	NSS	National Service Scheme (NSS) is a strong unit through which Social welfare activities like blood donation, NSS Seven day's Special Camps are organized in the year.
7	Cultural Activities	Cultural programme by name RANABHOOMI, JANANI, along with Department Association activities like Fresher Meet, Farewell and other cultural events are organized to encourage students to

		build their carrier. These programs would be very useful to explore and exhibit talent of students.
8	Public Speaking	Central Public Addressing System is available in the campus.
9	Communication Skills Development	To make students competent in English grammar, reading, writing and to increase vocabulary, Communication Improvement Programme (CIP) is introduced. A Language Laboratory for the same in is set-up. Separate communication skill development program are designed and executed carried out by T & P cell, all Departments in association with experts from industries and academics.
10	Yoga	Yoga camps are carried out by NSS unit every year in the college for students and staff and also for outside people.
11	Health and hygiene	One full time physician with emergency vehicle is available in the college campus. In every department first-aid boxes are available. Sufficient numbers of dustbins at proper locations are made available in Department to maintain cleanliness and hygiene. Institute having adequate permanent labor employees for housekeeping.
12	Fire Extinguishers	For safety against fire accidents adequate numbers of water points, sand buckets and fire extinguishers are available in the campus.
13	Newspapers at hostels	Common room in hostel is provided with Newspaper to develop communication skills.

**4.1.3 How does the institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed/augmented and the amount spent during the last four years (Enclose the Master Plan of the Institution / campus and indicate the existing physical infrastructure and the future planned expansions if any).**

Since its inception in 1982, the college has been keeping pace with the changing needs and requirements to meet its academic growth. To keep pace with the needs and requirements, additional infrastructure is being added from time to time. In the last four years, with respect to increase in intake extension of built-up area have been constructed/ renovated. The details of the facilities which have been added are as under:

**Table No.4.1.3 Details of Amount Spend (Amount in Lacs)**

S.No	Additional Infrastructure facilities	2011-12	2012-13	2013-14	2014-15
1.	Furniture and fittings	5.23	6.73	11.94	6.29
2.	Equipment, Plant & Machinery	4.16	1.24	19.17	48.87

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3.	Vehicles	12.69	----	32.13	8.09
4.	Computer Equipment	7.70	----	10.09	27.39
5.	Building	133.89	130.00	90.74	107.10
6.	Library Book	7.55	11.12	9.35	12.18

### 4.1.4 How does the institution ensure that the infrastructure facilities meet the Requirements of students with physical disabilities?

Seats are reserved in the college buses for students with physical disabilities. Facilities for ease of mobility such as, hand railings, etc. are provided. Institute is having an elevator facility for the same.

### 4.1.5 Give details on the residential facility and various provisions available:

#### Hostel Facility

**Table No.4.1.5 Details of residential facilities and various provisions**

Sl. No.	Available Residential Facilities	Various Provision Available within them
1	Hostel Facility –Accommodation available	BOYS' HOSTEL : ( 572 Capacity) Junior hostel (75 x3 =225) Senior hostel(75 x3 =225) Amar hostel (16 x4 =64, 29 x 2 = 58, Total=122) GIRLS' HOSTEL : ( 393 Capacity) Junior Girls hostel (25 x3 =75) Senior Girls hostel (106x3 =318) Well equipped, excellent cyber campus facilities (Wi-Fi enabled), hygienic drinking water, uninterrupted power supply, reading room, indoor, games, with mess facility
2	Recreational facilities, gymnasium, yoga center, etc.	Indoor games, well equipped gymnasium and regular yoga classes
3	Computer facility including access to internet in hostel	Campus wide networking , round the clock internet facility with 10 mbps two leased line with Wi-Fi connectivity
4	Facilities for medical emergencies	One full time physicians with two emergency vehicles are available in the college campus
5	Library facility in the hostels	Library facility is not available in the hostel however central library is open up to midnight which is nearer to the hostels.
6	Internet and Wi-Fi facility	Connected to central server through LAN which provides internet facility of 10 mbps leased line speed. The college campus is having facility of Wi-Fi connectivity.
7	Security	There are trained security guards who work on shifts to provide adequate security to pupils.
8	General Store	General store is available for the students in the campus.

9	Ladies room	The college hostel is having a separate ladies rooms for the convenience of the ladies.
10	Firefighting Equipment	For safety against fire accidents adequate numbers of water points, sand buckets and fire extinguisher are available campus all the Academic blocks, Library, Auditorium, Administrative Block, Seminar Halls and Hostels.
11	Water Coolers	The hostel is having water cooler facility.

#### 4.1.6 What are the provisions made available to students and staff in terms of health care on the campus and off the campus?

The college is having health center with a general physician, within the campus. An ambulance facility is also available for transport during medical emergencies to nearby super specialty hospital. Medical checkup for both students and staff is conducted regularly.

- Our institute made contract agreement with Dr Vikram Patil for counseling services. He is visiting the campus on every day 4:00 pm onwards for counseling.
- Maternity leave with pay is available to the staff.
- First aid kit is made available in the Physical Education department and in different departments.
- Medical checkup is done for all the students and staff every year by NSS unit.
- Health and Hygiene awareness programmes and Yoga classes are conducted by NSS unit.

#### 4.1.7 Give details of the Common Facilities available on the campus

Sl. No.	Common Facilities	Availability
1	Central Browsing Centre	Available
2	Grievance Redressal unit	Available
3	Women's Cell	Available
4	Counselling and Career Guidance	Available
5	Training and Placement Cell	Available
6	Health Centre	Available
7	Canteen	Available
8	Recreational spaces for staff and students	Available
9	Safe drinking water facilities	Available
10	Auditorium	Available
11	Security	Available
12	Wi-Fi connectivity in the campus	Available

## 4.2 Library as a Learning Resource

**4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?** **Yes**

The library has an Advisory Committee.

Composition of such committee is as follows:

Sl. No.	Name	Dept.	Status /Designation
1.	Dr. B.B.Lal	Principal	Chairman
2.	Prof. Sanjeev Diojode	Prof. Mech.	Member
3.	Mallikarjun Devani	HOD, Chemical	Member
4.	Prof. S.V Biradar	HOD, Civil	Member
5.	Dr. A.M. Bhavikatti	HOD, CSE	Member
6.	Dr. T.S. Vishwanath	HOD, ECE	Member
7.	Dr. Ashok Koti	HOD, ASH	Member
8.	Dr. Vijaykumar Durg	Assoc. Prof. ASH	Member
9.	Sunil Sangme	Assoc. Prof. MCA	Member
10.	Mr. G. Salimani	Librarian	Member Secretary

The following significant initiatives have been implemented by the committee to render the library, Student/user friendly. The committee is intended to plan and coordinate the execution of the requisite procedures for the functioning of the library.

Prepare Vision and Mission statements of the Library.

- Collecting requirement of books, journals, magazines etc. from all departments for every academic year and recommend to the management through the Principal for necessary procurement.
- Recommendation for update of the available/required books with new editions.
- Created awareness among the faculty members and students about the use of the reference books and other useful books in the library through the notice.
- Created awareness among the faculty members and students about the use of digital library and library facilities etc through notices and circulars.
- Prepare library rules.
- Ensure the up gradation of the library to keep pace with the technological developments.
- It also looks after that other infrastructure of the library is proper for smooth functioning and students' requirements are met.
- The departmental libraries are provided for necessary assistance by the library committee.
- Prepare time table as well as schedule for working hours

### **The Committee has the following objectives:**

Introduction of Library automation software for preparation of author Index, subject index, arrangement of books thereof and Software for online Library.

- To procure latest editions of books and journals depending on recommendations from student and staff representatives.
- Extended working hours for library (open from 9 am to 12 Mid night)
- Accessibility to E-journals on campus local area network
- Providing good ambience for the users
- Augmentation of digital library

### **4.2.2 Provide details of the following:**

- Total area of the library (in Sq. mts.): **1327.44 Sq.mts.**
- Total seating capacity : **200**
- Working hours (on working days, on holidays, before examination days, during examination days, during vacation)

**On all working days, on holidays, before and during examination day:**

#### **Working days:**

**Monday to Friday : 9 am to 12 mid night**

**Saturday : 9 am to 2 Pm**

**Sunday : 10 am to 2 Pm**

- Layout of the library (individual reading carrels, lounge area for browsing and reading section , IT zone for accessing e-resources)
- Layout of the library (individual reading carrels, lounge area for browsing and reading section, IT zone for accessing e-resources) provides 20 seated reading space for students and 10 seated reading space for teachers , a part as VTU – Consortia resource centre ( e-resources and internet browsing centre) with seven computers and internet connection with on line power back up facility for students and teachers. Reprographic facilities through photocopy machine are available for copies.

### **4.2.3 How does the library ensure purchase and use of current titles, print and-journals and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years.**

Each department suggests the titles of books and journals needed for teaching and learning. The librarians cross check the availability of books and number of copies required. Required books and journals are purchased after consultation with the Heads of departments, Library committee and the Principal.

The college library follows the Open Access system. Books are, placed on the stacks. The availability of a particular book can be confirmed by searching the Library software database. Reference books are also available in the library along with newspapers. Separate periodical session is available for faculty member and student.

The amount spent on procuring new books, journals and e-resources during the last four years is as given below:

### Amount Spent on New Books, Journals and e-resources

**Table No.4.2.3 Details of amount spent for Main Library facilities in Lacs**

Library Holdings	2014-15		2013-14		2012-13		2011-12	
	Number	Total Cost	Number	Total Cost	Number	Total Cost	Number	Total Cost
Text books	1119	4.35	864	3.29	1433	5.6	1632	4.99
Reference books	192	0.96	291	1.17	391	1.37	702	2.11
Journals/Periodicals	98	2.21	97	2.77	79	2.38	93	2.56
e-resources	IEL, UDL	5.1	IEL	3.13	IEL	3.13	8 packages	9.35

### PG Section

**Table No.4.2.3 Details of amount spent for PG Library facilities in Lacs**

Library Holdings	2014-15		2013-14		2012-13		2011-12	
	Number	Total Cost	Number	Total Cost	Number	Total Cost	Number	Total Cost
Text books	358	1.63	192	0.89	393	1.37	112	0.41
Reference books	123	0.56	86	0.35	139	0.49	78	0.24
Journals/Periodicals	14	0.49	18	0.56	15	0.41	24	0.56

**In addition to above every department has its own departmental library the details are as follows**



**Table No.4.2.3 Details of amount spent for Dept Library facilities in Lacs**

Department	Library Holdings	2014-15		2013-14		2012-13		2011-12	
		Number	Total Cost	Number	Total Cost	Number	Total Cost	Number	Total Cost
ME	T Books	2341	7.02	2326	6.97	2287	6.86	1361	4.08
Civil	T Books	180	2.25	751	2.28	721	1.73	649	1.34
	R Books	72	0.23	56	0.18	36	0.11	18	0.06
ECE	T Books	790	1.58	560	1.12	188	0.33	205	0.41
	R Books	30	0.2	32	0.13	20	0.08	15	0.08
CSE	T Books	2012	6.83	1905	6.43	1802	6.08	1775	5.76
	R. Books	190	0.59	116	0.34	75	0.22	50	0.15
Che	T.Books	-	-	-	-	24	0.10	107	0.28
	R. Books	-	-	-	-	01	0.08	-	-
MCA	T.Books	50	0.1	50	0.12	50	0.12	50	0.12

## 4.2.4. Provide details on the ICT (Information and Communications Technology) and other tools deployed to provide maximum access to the library collection?

### ➤ OPAC : Yes

Online Public Access Catalogue (OPAC) it provide the maximum access to the library collection searching by-

- Subject name
- Author name
- Title of the book
- ISBN No.
- Year of publication
- Accession No.
- Record No.
- Place of Publication
- Publisher name etc.

➤ **Electronic Resource Management package for e-journals : 8 Packages ( more than 8623 e - journals)**

➤ **Federated searching tools to search articles in multiple databases :NO**

➤ **Library Website: YES.( link is provided in the college website)**

➤ **In-house/remote access to e-publications : NO**

➤ **Library automation : YES , EasyLib Software**

➤ **Total number of computers for public access**

There are 10 computers are available for public access

- Total numbers of printers for public access : yes
- Internet band width/ speed : 10 Mbps
- Institutional Repository : YES
- Content Management system for e-learning : YES
- Participation in Resource sharing network/consortia (like Inflibnet): VTU- Consortia

## 4.2.5 Provide details on the following items:

Average number of walk-ins: 250 per day

Average number of books issued/returned : 125/75

Ratio of library books to students enrolled : 27:1

Average number of books added during last three years : 2208

Average number of login to OPAC :50

Average number of e-resources downloaded/printed: 50

Number of information literacy trainings organized : NIL

Details of “weeding out” of books and others: NIL

**Table No. 4.2.5 detail of books added during last four years**

Academic year	No. of Titles	No. of Books	Total Amount Rs.	Average
2011-2012	702	2334	709194	1656
2012-2013	391	1824	696447	
2013-2014	291	1155	444597	
2014-2015	192	1311	499404	
<b>Total</b>	<b>1576</b>	<b>6624</b>	<b>2349642</b>	

## 4.2.6 Give details of the specialized services provided by the library:

- **Manuscripts** : YES
- **Reference** : YES
- **ILL (Inter Library Loan Service)** : YES
- **Information deployment and notification (Information Deployment and Notification) : Yes**

All the library information, instructions and notifications are brought to the notice of the faculty members and students time to time like: Issue and returned of books, journals and periodicals, Submission of requirement for books and journals from the departments, to use of e-resources, use of digital library and to refer the reference books on large scale in the library etc. in this respect.

- **Download** : YES

The library makes the help to faculty members and students to download the articles and research papers from the e-journals subscribed. Also provide the printing facilities to faculty members and students in this respect.

- **Printing** : YES
- **Reading list/ Bibliography compilation** : YES

The list of library books and journals etc. are being provided to the users.

- **In-house/remote access to e-resources** : NO
- **User Orientation and awareness** : YES
- **INFLIBNET/IUC facilities** : YES (IN THE FORM OF VTU CONST.)

#### **4.2.7 Enumerate on the support provided by the Library staff to the students and teachers of the college.**

Library staff provide support to the students and teachers in

- Searching /locating and issuing the required books
- Old question papers services
- Providing information on new books, JOURNALS
- Reprography and printing services

#### **4.2.8 What are the special facilities offered by the library to the visually/physically challenged persons? Give details.**

For physically impaired staff/ students the college is having a lift facility.

Though currently Institute does not have visually challenged persons so far, however the system is in-place to meet with arrangement available.

#### **4.2.9 Does the library get the feedback from its users? If yes, how is it analyzed and used for improving the library services. (What strategies are deployed by the Library to collect feedback from users? How is the feedback analyzed and used for further improvement of the library services?)**

- The feedback is being taken semester wise on Institute level by the authority from all

the students. Whatever lacunae/ discrepancies are brought to the notice of the concerned feedback authority by the students, they sent it to the library. Suggestions are taken for implementation through Library advisory committee.

- A suggestion box is kept in the library. The suggestions are collected and analyzed by the Library Committee. During committee meetings every semester, students and faculty suggestions are analyzed and considered for improving the library services.
- Also, there is a Library Guest Register, as and when any distinguished guests visit Library suggestions or feedbacks as advices are requested to improve the facilities or services.

## 4.3 IT Infrastructure

**4.3.1. Give details on the computing facility available (hardware and software) at the institution. Number of computers with Configuration (provide actual number with exact configuration of each available system)**

**Number of Computer Systems: 974 with following configuration details.**

### 1 Number of Computer Systems in Civil Engg. Dept

Sl. No.	System Configuration	Qty
01	Compaq Presario , processor –Intel core i3 , 32bit , RAM -2GB	27
02	Chirag intel Pentium , processor- Pentium –iv , dual core,32bit , RAM -1GB	03
<b>TOTAL</b>		<b>30</b>

### 2. Number of Computer Systems in Mech. Engg. Dept

Sl. No.	System Configuration	Qty
01	HP prodesk, 4 generation ,intel core i5 , RAM-4 GB , HDD-500GB	22
02	Compaq Presario, P-iv , HDD-160GB, RAM-512MB	36
03	HP Compaq DX-2480 , P-iv , HDD-160GB, RAM-2GB	15
04	IBM ( Net Vista ) , P-iv , HDD-40GB, RAM-256MB	05
05	IBM (Think centre desktop), , P-iv , HDD-80GB, RAM-512MB	20
06	Wipro ( I-value) , P-iv , HDD-80GB, RAM-512MB	10
<b>TOTAL</b>		<b>108</b>

### 3. Number of Computer Systems in E&C Engg. Dept

Sl. No.	System Configuration	Qty
01	Hp intel Pentium core duo, HDD-160GB, RAM-1GB	50
02	Hp-pro , intel dual core ,HDD-160GB , RAM -1GB	02
03	Chirag , intel dual core , HDD-250GB , RAM -1GB	26
04	Compaq /HP intel dual core HDD-160GB , RAM-1GB	04
<b>TOTAL</b>		<b>82</b>

**4. Number of Computer Systems in CS Engg. Dept**

Sl. No.	System Configuration	Qty
01	HP ,DX 2480 ,core -2 Duo / 1GB RAM/160GB HDD/18.5 TFT	40
02	HP PRO 15 / 4GB RAM /500 GB HDD/18.5 TFT	26
03	HP ,DX 2480 ,Core -2 Duo / 1GB RAM/160GB HDD/18.5 TFT	20
04	HP PRO 15 / 4GB RAM /500 GB HDD/18.5 TFT	25
05	HP ,DX 2480 ,core -2 Duo / 1GB RAM/160GB HDD/18.5 TFT / Chirag D20 Intel dual core	20
06	Intel P4 @ 3.2GHz, 512 MB RAM, 80 GB HDD, 17 “ CRT monitor	25
07	Intel P4 @ 3.2GHz, 512 MB RAM, 80 GB HDD, 17 “ CRT monitor	28
08	HP ,DX 2480 ,Core -2 Duo / 1GB RAM/160GB HDD/18.5 TFT	20
09	Server and others systems	13
10	Systems others	30
<b>TOTAL</b>		<b>247</b>

**5.Number of Computer Systems in Chemical Engg. Dept**

Sl. No.	System Configuration	Qty
01	Wipro computers	09
02	Chirag Computers	03
03	HP Compaq	05
<b>TOTAL</b>		<b>17</b>

**6.Number of Computer Systems in ASH Dept**

Sl. No.	System Configuration	Qty
01	HP , Micro tower PC 4GB RAM , 1 TB HDD	<b>04</b>
02	Compaq Presario	<b>02</b>
03	HP INA 011, 029 R , proclaim No. VY7070AV	<b>02</b>
04	Lenovo	<b>01</b>
<b>TOTAL</b>		<b>09</b>

**7.Number of Computer Systems in MCA**

Sl. No.	System Configuration	Qty
01	Wipro i value Pentium -4 , Intel -4 G33/ 3MB L2 cache memory/512 DDR RAM/80 GB HDD/Local Key board and mouse with IBM Monitor	<b>30</b>
02	Chirag desktop , D-20 Intel dual core @ 2.5 GHz processor, Intel G 31 Chipset mother board , 1GB DDR RAM , 250 HDD	<b>05</b>
03	HP Desktop 3090 , intel core -2 Deo , E 7500 @ 2.93 GHz processor, 2GB DDR RAM, 250 GB HDD	<b>02</b>
<b>TOTAL</b>		<b>37</b>

**8.Administrative office and Principle Chamber**

Sl. No.	System Configuration	Qty
01	Principal chamber	02
02	Office	10
03	Vice principal	01
04	T&P , maintenance cell, store, Site Engineer library	31
<b>TOTAL</b>		<b>44</b>

**9.Number of Computer Systems in TCS - ION**

Sl. No.	System Configuration	Qty
01	ACER Dual Core , 4GB RAM, 500 GB HDD, 2.8GHz	400
<b>TOTAL</b>		<b>400</b>

- **Computer-student ratio :1:2**
- **Stand alone facility : 20**
- **LAN facility : YES**
- **Wi-Fi facility : YES**
- **Licensed software: YES**

**Table No.4.3.1.1 List of Licensed Software**

Sl. No.	Name of Software	No. of Licenses
1	Dream spark premium En 1 Yr.AE online membership India only renewal PKC micro case	1 Pack
2	79 p-04730 MS –Office Professional 2013 with SPI	10
3	CNC simulation	02
4	AUTO CAD 2002	02
5	CATIA V5/ R9	05
6	Solid Edge	60
7	ANSYS 11	25
8	Master CAM X4	15
9	CNC simulation	Unlimited
10	Robot software with robot model	01
11	R softs BAND SOLVE	01
12	R softs FULL WAVE	01
13	OPTI FDTD	01
14	MSDN Academic alliance	01

- **Number of nodes/ computers with Internet facility : 700**
- **Any other TCS ion online examination centre with 400 COMPUTER systems is functioning in the campus**

**4.3.2 Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?**

The institute has separate computer centre with internet browsing facility looked after by Computer department

Sl. No.	Service provider	Bandwidth	Contention Ratio	Circuit Type
1	BSNL	10Mbps	1:1	Leased line
2	AIRTEL	10 Mbps	1:1	Leased line
3	BSNL	5Mbps	1:1	Broad band
4	BSNL	5Mbps	1:1	Broad band
5	BSNL	5Mbps	1:1	Broad band
6	BSNL	5Mbps	1:1	Broad band

- Internet service is available for both students and faculty in the campus.
- Each department has their own computing facility for their faculty and students.
- College campus connected to central server through LAN which provides internet facility of 10 mbps leased line.
- Through Wi-Fi round-the-clock internet facility of 10 mbps leased line in and around the campus (cyber Hostels) is provided.
- Students and Staff can also browse e-Journals through digital library.
- Laptops are provided to Principal and all departments head.

**4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?**

- The college has a Comprehensive IT Policy which is governed by the IT Planning and monitoring committee.
- They look up the IT related work. Computer systems are upgraded with latest configuration.
- Individual up gradation of the computers is taken up as per the need and requirements of the various departments.
- Enough provision is made available in the annual budgets for the procurement of the computer systems.
- Once new systems are procured, they replace with the existing systems as per the requirements of the departments.

- All the computer systems in the campus are regularly monitored by the system administrator and maintenance staff.
- All the UPS and Computer Systems are with respective service providers and are maintained regularly.
- The trouble/problems experienced by the computers in the various laboratories are entered by the lab programmers/technicians in the complaint register which is kept in the Computer department server room.
- The maintenance staff will then goes to the respective labs for identification of the problems and resolves the same at the respective places.
- In case of major problems i.e. replacement of component/part during warranty they are sent to the respective service centers and got replaced at the earliest.
- All the servers are with respective service providers and are maintained regularly.

#### **4.3.4 Provide details on the provision made in the annual budget for procurement, up gradation, deployment and maintenance of the computers and their accessories in the institution (Year wise for last four years)**

Amount spent for procurement, up gradation, deployment and maintenance of the computers and their accessories in the institution during last four years:

Sl. No.	Particulars	Amount spent (Rupees) in Lacs			
		2014 - 15	2013 - 14	2012 - 13	2011 - 12
01	Procuring computers	56	-----	-----	-----
02	Up gradation of computers	-----	-----	-----	-----
03	Maintenance of computers	5.082	5.082	5.082	5.082

#### **4.3.5 How does the institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/ learning materials by its staff and students?**

- The Institution has adequate computer facility for its faculty. Faculty members are provided with computers with internet facility for preparation of teaching/learning materials in their respective departments.
- Each department has its own computing facility based on the curriculum demand Number of computer laboratories and number of computers in each laboratory vary from department to department.



- The faculty and students can access e – resources available in the library through wi-fi facility and also through computing facilities available with each department.
- Adequate Multimedia projectors are available within the college for the faculty use.
- Each department in the institute has individual seminar halls provided with LCD projector, internet facility.
- Developed, Language laboratory for the students with interactive software in computer department.
- First year class rooms are permanently fitted with LCD projectors for the efficient usage and one or two class room are fitted with LCD projector in each department

**4.3.6 Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching learning resources, independent learning, ICT enabled classrooms/learning spaces etc.) by the institution place the student at the centre of teaching-learning process and render the role of a facilitator for the teacher.**

- Students have open access library facilities
- Language lab is provided to the students
- Students are encouraged to write contents to different open access portals
- Students are provided with free online training to prepare themselves for the Competitive exams for their higher studies and placement drive
- Many Class rooms are fitted with LCD projectors
- Students are given free access to internet, for the preparation of their assignments, projects and to enhance their knowledge

**4.3.7 Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating University? If so, what are the services availed of?**

YES , the Institution avails of the National Knowledge Network connectivity directly.

1. VTU EDUSAT programme
2. Virtual Labs by IIT, Roorkee
3. Amritha University, Kerela
4. VLabs of IIIT, Hyderabad

#### 4.4 Maintenance of Campus Facilities

**4.4.1 How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last four years)**

Utmost care is taken for budget allocation considering financial resources for providing maintenance support for the entire college facilities. Keeping in view the priorities department-wise, equipment wise and also to fulfill the academic needs of the students budgeted amounts is being utilized. Details of budget allocation during last four years are mentioned down below.

**Table No.4.4.1 Maintenance of Campus Facilities Amount in Lacs**

Sl. No.	Facilities	2014-2015		2013-2014		2012-2013		2011-2012	
		Budget	Expenses	Budget	Expenses	Budget	Expenses	Budget	Expenses
1	Building	75.00	107.10	100.00	90.74	100.00	129.99	200.00	133.89
2	Furniture	10.00	6.29	21.49	11.94	8.00	6.73	10.00	5.23
3	Equipment	84.90	48.87	41.71	19.79	17.31	1.24	53.08	4.16
4	Computers	25.00	27.39	3.00	1.09	3.00	---	10.00	7.70
5	Vehicles	40.00	8.09	35.00	32.13	30.00	---	----	12.69
6	Any other	18.30	2.12	61.94	7.15	49.85	164.00	55.70	39.55
	<b>Total :</b>	<b>253.2</b>	<b>199.86</b>	<b>263.14</b>	<b>162.84</b>	<b>208.16</b>	<b>301.96</b>	<b>328.78</b>	<b>203.22</b>

**4.4.2 What are the institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the college?**

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Infrastructure and Facility	Maintenance Description
Land Built up Area Exclusive for the Institution Land : 34 acres , 33 gunta Build-up floor space: 27370 sq.m.	Cleanliness is maintained by the maintenance department people organized by the institute level in charge.
Class Rooms	Well-furnished class rooms are cleaned by employed sweepers every day.
Seminar Halls	Seminar hall of the department is maintained by departmental in charge faculty & Technician at regular intervals
Tutorial Rooms	Tutorial rooms are cleaned every day and maintained by faculty in charge.
Laboratories	A faculty in charge and a laboratory technician looks after the maintenance of each laboratory. They put together propose the budget for the required consumables, new equipment, repairs and calibration if required.
Equipment	Technicians maintain the log book for equipment of the laboratory. They prepare the preventive maintenance schedules under the guidance of faculty-in-charge and carry out regular Maintenance as per the schedules. In each department

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Equipment	Technicians maintain the log book for equipment of the laboratory. They prepare the preventive maintenance schedules under the guidance of faculty-in-charge and carry out regular Maintenance as per the schedules. In each department
Computers	A team of programmer/ Technician from AMC and a faculty in- charge of each computer laboratory are responsible for maintenance of systems and software. Programmer carryout maintenance of each computer at regular intervals and record in the log book. Faculty in charge prepares necessary budget and submit to HOD.
Main Library	All the books are accessioned accordingly by the serial number of accession number and classified subject wise and shelved in the rack according to call numbers regularly.
Dept. Library	Faculty members of departments can borrow books from Dept. Library, and students in their free time can make use of the books available in the Dept. Library. One Faculty member is made in- charge of the Dept. Library.
Internet /Intranet	Internet related matters are maintained by a team of faculty, systems administrator and programmers in computer science department. They maintain the daily band width, usage, band width allocation, sharing etc.
Electricity	Maintenance Engineer, Technicians and Attender look after the maintenance of electricity.
Water	Sufficient water available to meet requirements of garden and toilets .It caters needs of Staff & Students ,Buildings etc.
Civil Maintenance	Maintenance department with site engineer will look after the civil structure at regular intervals and do the need full work whenever required.
Security	There are Watchmen who work on shifts The college hired the services of a reputable security agency.

#### 4.4.3 How and with what frequency does the institute take up calibration and other precision measures for the equipment/ instruments?

Laboratory in-charge ensures that the equipments/ instruments in respect of his/her laboratory are in working condition. In case of break down, the departments take the initiative to calibrate the precision instruments for their optimum and assured performance, once in a semester.

**4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)?**

- All the computers in different departments are backed up with UPS
- Electrical Generators are used during the lab hours and longer duration of power cut
- Voltage stabilizers are provided to some Labs
- Different buildings of the college campus have their own overhead water tank and water is supplied from the open well of the college
- The transformers of 100KVA- 2 No. 250 KVA -1 No are available in the college campus for distribution of electric supply
- To provide uninterrupted power the generators of capacity 62, 5KVA -01No, 50KVA-01 No, 125 kVA -01 No. are available in the college campus

**Drinking water:**

The college has water purifying units

Sl.No.	Each Unit processes ltrs/hour	Quantity
1	250 Liters/Hourr	10

The college has an organized supply mechanism to different departments. The college has a water cooler facility at each department.

- **Any other relevant information regarding Infrastructure and Learning Resources which the college would like to include**
- **Administrative office well equipped with computer along with internet facility. Separate section with cabins.**
- **The college campus is having a well maintained Garden with fountain.**
- **The college is having a TCS ION exam centre for conducting on line competitive exams.**
- **The college is having a Central store and co-operative store for students and staffs.**

**CRITERION V: STUDENT SUPPORT AND PROGRESSION****5.1 Student Mentoring and Support**

**5.1.1 Does the institution publish its updated prospectus/handbook annually? If ‘yes’, what is the information provided to students through these documents and how does the institution ensure its commitment and accountability? Yes.**

The college publishes its updated Prospectus/Leaflet every year which contains information regarding courses offered, rules and regulations and other useful information.

**Table 5.1.1 Information provided**

<b>Sl. No</b>	<b>Information</b>
1.	Vision, Mission, Objectives and Quality Policy of the Institute
2.	Details about the Courses offered: UG, PG and Ph.D
3.	Facilities available in the college and Departments
4.	Achievement of the Institute
5.	Central Library information
6.	Accommodation facilities on campus for students.
7.	Research and Development facilities available in the Institute
8.	Admission procedure, fees details
9.	Campus placement details: Companies, Number of students selected
10.	Board of Governors
11.	Results of last three Years
12.	Ragging Preventive measures, Discipline code and conduct
13.	Contact numbers for seeking important information.

Institute implements all the rules and regulations mentioned in the prospectus/leaflet, conducts regular faculty meetings, interaction with students and obtaining feedback from students. It adheres to the Institute Academic calendar to ensure its commitment and accountability to all stake holders.

**5.1.2 Specify the type, number and amount of institutional scholarships / freeships given to the students during the last four years and whether the financial aid was available and disbursed on time?**

**A. Scholarship given by Government of India**

Institute ensures and facilitates the financial assistance to the students belonging to SC/ST/OBC in the form of Scholarships, freeships and other concessions provided by Government of India and disbursed on time to the students.

## SELF STUDY REPORT (SSR)

**Table 5.1.2 Details of Scholarship given by Govt. of India in last Four years**

Academic Year 2011-2012			
Category	Financial Assistance from Government	Total No. of Students	Total amount received from Govt.
SC & ST	Fee Concession/ Scholarship/ Others	804	Rs.2,33,29,525/-
OBC			
Other Category			
Other State			
Academic Year 2012-2013			
Category	Financial Assistance from Government	Total No. of Students	Total amount received from Govt.
SC & ST	Fee Concession/ Scholarship/ Others	869	Rs.1,43,33,560/-
OBC			
Other Category			
Other State			
Academic Year 2013-2014			
Category	Financial Assistance from Government	Total No. of Students	Total amount received from Govt.
SC & ST	Fee Concession/ Scholarship/ Others	1003	Rs.1,95,53,900/-
OBC			
Other Category			
Other State			
Academic Year 2014-2015			
Category	Financial Assistance from Government	Total No. of Students	Total amount received from Govt.
SC & ST	Fee Concession/ Scholarship/ Others	1390	Rs.3,20,85,455/-
OBC			
Other Category			
Other State			

### **B. Merit Scholarships from Institute:**

The Institute offers many special Bonanzas for Meritorious students on taking admission. The following students are exempted from full tuition fees for the entire courses on seeking admission in the institute for the particular academic year and who complete the course here itself in the institute.

## SELF STUDY REPORT (SSR)

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- Fee concession / Scholarship under Karnataka CET Quota
- Students of Karnataka securing CET Rank 1-1500
- Students of Bidar District securing CET Rank 1500-2500
- Students of Bhalki Taluka securing CET Rank 2500-3000
  - Fee concession / Scholarship under Management Quota
- Any student securing 85% and above marks in PCM or in aggregate will be given Rs. 20,000/- fee Concession / Scholarship every year
- Any student securing 80% and above but less than 85% marks in PCM or in aggregate will be given Rs. 15,000/- fee Concession / Scholarship every year.
- Any student securing 75% and above but less than 80% marks in PCM or in aggregate will be given Rs. 10,000/- fee Concession / Scholarship every year.

OR

- Any student having All India Rank 1 to 50000 in AIEEE/JEE (Main) will be given full tuition fee Concession every year.
- Any student having All India Rank 50,001 to 1,00,000 in AIEEE/JEE (Main) will be given 50% tuition fee Concession every year.
- Any student having All India Rank 1,00,001 to 1,50,000 in AIEEE/JEE (Main) will be given 25% tuition fee Concession every year.
  - Every year students taking admission under management quota, are given fee-concession based on their percentage of marks in +2 level as mentioned above.
  - Apart from these freeship are also provided to employee's wards.
  - Fee concession is also provided to ward's own brothers/sisters.

### **5.1.3 What percentage of students receives financial assistance from state government, central government and other national agencies?**

Around 60% of the students receive financial assistance from State Government, Central Government and other national agencies.



## SELF STUDY REPORT (SSR)

**Table 5.1.3 Details of percentage of students received financial assistance in last four years**

Academic Year 2011-2012				
Category	Financial Assistance from Government	Total No. of Students	No. of students received financial assistance	Percentage of students
SC & ST	Fee Concession/ Scholarship/ Others	1739	804	46.23
OBC				
Other Category				
Other State				
Academic Year 2012-2013				
Category	Financial Assistance from Government	Total No. of Students	No. of students received financial assistance	Percentage of students
SC & ST	Fee Concession/ Scholarship/ Others	1635	869	53
OBC				
Other Category				
Other State				
Academic Year 2013-2014				
Category	Financial Assistance from Government	Total No. of Students	No. of students received financial assistance	Percentage of students
SC & ST	Fee Concession/ Scholarship/ Others	1895	1003	53
OBC				
Other Category				
Other State				
Academic Year 2014-2015				
Category	Financial Assistance from Government	Total No. of Students	No. of students received financial assistance	Percentage of students
SC & ST	Fee Concession/ Scholarship/ Others	1986	1390	70
OBC				
Other Category				
Other State				

### 5.1.4 What are the specific support services/facilities available for Students from SC/ST, OBC and economically Weaker sections

- Financial assistance is given to the students belonging to SC/ST/OBC.
- Book bank facility is available in the Central Library for SC/ST students.
- Additional books are also issued to students by Department Library.
- Institute offers prizes/rewards to meritorious students.

#### ➤ **Students with physical disabilities**

In the college bus seats are reserved for physically challenged students.

Scribe is provided wherever required.

Lift facility is provided for physically disabled students.

#### ➤ **Overseas students**

Students from Nepal are studying in the institute.

#### ➤ **Students to participate in various competitions/National and International**

Students are motivated and encouraged to participate in national/ international competitions, conferences, project exhibitions/competitions, seminars/workshops / design contests, training courses etc. Institute conducts conferences, technical and non-technical events to improve and develop creativity in students.

#### ➤ **Medical assistance to students: Health Centre, Health Insurance etc.**

The institute has a Health Centre on Campus.

Doctor will be available in Health Centre to provide medical assistance to students.

First-Aid kits are available in the institute and in all the Departments.

Ambulance is available in campus 24x7.

MoU is signed with doctor.

#### ➤ **Organizing coaching classes for competitive exams**

Yes, the institute provides training programs for competitive exams. The Training and Placement cell provides all the training/coaching to the students by arranging training programs through internal and external agencies. Training program consists of soft-skill development, creative thinking, developing analytical skills, how to write competitive exams, and face interviews for overall development of students.

#### **Skill development (spoken English, computer literacy, etc.,)**

Training and Placement Cell of the institute organizes skill development programs for all the students. English communication lab is being setup in the Institute for first year students. Details are given in the following table.

## SELF STUDY REPORT (SSR)

**Table 5.1.4.1 Details of Skill Development Programs**

Sl. No.	Name of the Skill Development Programme/Course	Objective	Goal
1.	Entrepreneurship Awareness Camp (EAC)	To create awareness among the students about various aspects of entrepreneurship as an alternative career option. Institute organizes EAC for Final year students. Awareness about the methods and ways to start business, various business opportunities in manufacturing, trading, service sectors etc.	To facilitate student-entrepreneur interaction. Students must learn to identify legal issues affecting development, ownership and operation of companies.
2.	Communication Improvement Programme (CIP)	Effective communication skills are fundamental to success in many aspects of life. For the employability and social aspect of students strong communication skills are important. Therefore, institute arranges CIP as a compulsory training program for the first year students.	CIP can help in improving the speaking ability in students by improving clarity of language and expressing thoughts clearly. And also it helps to learn more about the basics of grammar, tenses, verbs, active and passive speech.
3.	Aptitude Training Programme	Aptitude is one of the important aspects among graduates. The main objective of this programme is to train the students in aptitude, reasoning, logical reasoning areas. It is arranged for final year students	To teach aptitude, reasoning skills to students. And preparing students for pre-placement activities.
4.	ANSYS	To make it easy for students to understand and learn ANSYS software. This software is used for the prediction and analysis of behavior of components in real life situation. This training course is arranged for 3 <sup>rd</sup> year mechanical students.	Students should learn how to use the software, and should be capable of solving and demonstrating the problems using ANSYS software.
5.	CATIA	To make it easy for students to understand and learn CATIA software. This software is used to model the product and prediction of behavior of modelled product. This training course is arranged for 3 <sup>rd</sup> year mechanical students.	Students should learn how to use the software, and should be capable of solving and demonstrating the design products using CATIA software.
6.	AUTO CAD	Objective of this programme is to impart knowledge to create the	Students should learn how to use the

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		computer aided designs and applications including drafting. This training course is arranged for 3 <sup>rd</sup> year mechanical students.	software, and should be capable of solving and designing the given problems using AUTO CAD software.
7.	Soft skill development training	Objective of this programme is to develop effective communication skills both spoken & written, presentation skills, inter-personal skills, leadership skills, career plans among the students. These skills are very important for a student for employability. It is arranged at 2 <sup>nd</sup> year level.	Students must learn the importance of soft skills and learn all the required skills for an effective communication.
8.	Personality development programme	Objective of this program is to develop self confidence, self esteem among the students. Best personality qualities are taught to students by experts. It helps in employability of students. This program is arranged for first year students.	Students must learn good personality traits. They should enhance their knowledge.
9.	Pre-placement training	This training program is conducted to improve the soft skills, aptitude, reasoning, interview skills among final year students. It helps in better employability.	Students should learn how to face any interview. They should demonstrate their skills at the end of the program.

### Support for “slow learners”

- Institute conducts **study hours for first year students** in three subjects. It helps slow learners to understand the subjects better.
- Based on the requirement of students in higher semesters, extra classes will be arranged in respective departments.
- Institute organizes motivational classes/lectures for the students.
- Institute has Local Guardian System. Local Guardian/proctor takes care of students under his/her supervision and solves the problems faced by students. Every week local Guardian meeting is conducted with students.

### Exposures of students to other institution of higher learning/ corporate/business house etc.

Institute organizes industrial visits in respective departments for the students. Students can get exposure to industries that helps the students to understand subjects practically which they have learnt theoretically.

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- The College has subscribed for VTU consortia through which students can access e-journals, standards and conference proceedings.
- Institute encourages the students to attend/participate in the workshops/conferences/project exhibitions /national and international level programs conducted by various institutions/organizations.
- Students are also allowed to carry out their projects in industries, reputed companies and business houses.
- Seminar/guest lectures by experienced professionals are arranged in the institution for the students to enhance their knowledge in the respective subjects and also about recent developments.
- Apart from the curriculum subjects, training in aptitude, entrepreneurship, business management, personality development etc. are given to students. These programs are organized by Training & Placement Cell and NSS Unit of the institution.
- Institution has signed MoU with different institutes and industries.

**Table 5.1.4.2 MoU with Companies**

Sr. No.	Name of the Institute/Industry	Date of MoU
1.	MoU with Copes Tech Pvt. Ltd, Bangalore, for training on CAD, CAM, CAE and other product development projects.	05-01-2016
2.	MoU with HireX Career solution Mumbai, for employability skill training & placement assistance.	14-05-2015
3.	MoU with Smart Geek Systems Pvt. Ltd. Hyderabad for applications and services.	10-01-2014
4.	MoU with AutoCAD Centre MEDINI Bangalore, for the use of licensed AutoCAD software and tools. Bangalore.	06-04-2013
5.	MoU signed with Mr. G Balaprasad chief trainer and director of M/s. Global Career Point Hyderabad, regarding Campus Recruitment Training programme.	08-10-2012
6.	MoU signed with Mr. Narendra Negi Business Head, Kyrion Technologies Pvt. Ltd., New delhi, regarding Workshop on Robotics Campus Recruitment Training programme.	11-10-2012
7.	MoU with TCS-ion, for establishing ion center for online exams and to be partner as MAC center.	01-08-2012
8.	MoU for Employability Training with Rahul Desai, Director SPHR solutions Pvt. Ltd. Mumbai, for placement ready training and placement assistance.	03-08-2011

### Publication of student magazines

- Institute provides opportunity for the students to involve and contribute to publish in the institutional news letter.

### 5.1.5 Describe the efforts made by the institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.

- Institute has T&P cell which organizes training programs on entrepreneurial skill development and provides all the required information for the interested students, who wants to become entrepreneurs.
- Students learn about the entrepreneurship, methods and ways to start a business through Entrepreneurship Awareness Camp (EAC) organized by the Training and Placement Cell of the institute.
- Talks by Experts are also arranged in institution for students to gain knowledge about the entrepreneurship, finance, marketing research, accounts etc.
- To train the students in this field, workshops/ training programs are also arranged.
- Name of the company: CEDOK Dharwar, Deshpande Foundation Hubli etc.

**Table 5.1.5 Entrepreneurial Development Program:**

Sl. No.	Title	Trainer /organization	Year	Students
1.	Entrepreneurial Development Program	VTU, RO, Gulbarga	13th March, 2015	Final year
2.	Employment Empowerment Program	Srinidhi, RIIIT, Mysore	27th -28th March, 2015	Student Co-coordinators
3.	Lead Programme	Mr.Neelakanth, Director & Head Deshpande foundation Hubli	30-31st march 2016	First year
4.	Entrepreneurship awareness camp	Mr. Jagadish Y. CEDOK, Dharwar	27 - 29 Feb'16	Final Year
5.	Leadership & entrepreneurship	Mr.Neelakanth, Director & Head Deshpande foundation Hubli	4th Nov 2015	Third year
6.	Employability Training program	Mr. Rahul Desai, Rishicool.com, Mumbai	12th -17th Sep. 2011	Final year

**5.1.6 Enumerate the policies and strategies of the institution which promote participation of students in extracurricular and co-curricular activities such as sports, games, Quiz competitions, debate and discussions, cultural activities etc.**

- Institution provides TA and DA for the students who participate in national level/university level/Zonal level sports competitions. Such students are given permission to practice and participate in competitions with academic support and flexibility in writing Internal Assessment test.
- Blazers, track suits and T-shirts are provided to students participating in competitions.
- Winning team is honored by giving certificate/medals during Independence Day /Republic Day Celebration by Er. Eshwar Khandre, Honorable chairman S.V.E, Society, Bhalki.
- Cash prizes will be given to students by the respective departments during department functions.

**Special dietary requirements, sports uniform and materials:**

Sports section provides required special dietary, sports kit, uniform and other materials for participating students.

**Any other:**

Institution gives permission to celebrate Fresher meet, Get-together and Farewell functions in respective departments. Various sports and cultural activities are also conducted.

**5.1.7 Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIR- NET, UGC-NET, SLET, GATE / CAT / GRE / TOFEL / GMAT / Central /State services, Defense, Civil Services, etc.**

Lectures by experts are arranged for motivating students to go for higher studies, research field, to appear for competitive exams. Special Training/talks are also arranged for students about how to prepare and crack competitive exams. Students are provided with library reference books to prepare for competitive exams.

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**Table 5.1.7: Training for preparation to appear Competitive Exams:**

Sl. No.	Program	Name of the Expert	Company	Date
1.	Training for Competitive Exams	Ranjan Raj Vaibhav Inamdar	C-DAC Pune	2014
2.	GATE awareness & scholarship exam	Manoj Sharma	TIME, Hyderabad	2014
3.	Training for Competitive Exams	CDAC	CDAC	19-04-2012
4.	Seminar On GATE Preparation	Mr. Liyaqat ali .N. Dafedor	Director GATE Academy Bangalore	05-10-2012
5.	MOCK-Test on GATE	Mr. Mukhtar	Manager GATE Academy Bangalore	05-10-2012

**Table 5.1.7.1 Details of students shortlisted for Indian Army**

Academic Year	2011-12	2012-13	2013-14	2014-15
No. of students Appeared	45	78	60	70
No. of students Shortlisted	05	06	05	04

**Table 5.1.7.2 Details of students shortlisted for Indian Navy**

Academic Year	2011-12	2012-13	2013-14	2014-15
No. of students Appeared	Nil	08	09	18
No. of students Shortlisted	Nil	04	05	07

### 5.1.8 What type of counseling services are made available to the students (academic, personal, career, psycho-social etc.)

Institute has following services for the benefit of students.

#### ➤ **Local Guardian (LG) (Proctor)**

Faculties are given the responsibilities of Local Guardian. Each LG is allotted a batch of 20-25 students.

- For the first year students, the LG is from Allied Science Department. From second year onwards the LG is from their respective departments.
- Every week Local Guardian meeting is conducted with students regarding



their grievances and progress.

- Local guardian motivates the students under his/her supervision, and takes care of student's development. He acts as a friend, philosopher and guide to students.
- Students who need academic, personal, career and psycho-socio assistance can easily approach their local guardian.

➤ **Class Coordinator (CC)**

- Senior faculties from particular department are class coordinators of each class in their respective departments.
- Class coordinator keeps the track of academic performance like attendance status, test performance of the students and the same will be intimated to their parents.
- CC makes sure that all the classes are conducted regularly and makes substitute arrangement if the faculty goes on leave in emergency.
- Students facing difficulties, personal problems can meet the CC for his/her guidance.
- CC will submit the class monitoring report to Head of the Department.

➤ **Head of the Department (HOD)**

HOD interacts with Local Guardian and Class Coordinator regularly.

HOD motivates and encourages the students of their respective departments by visiting/conducting meetings with students.

➤ **Dean (Student Welfare officer)**

For the whole institute, Dean acts as a local guardian and Counselor for students.

Students with severe problems can approach dean, whose problems cannot be solved in department level.

➤ **Counselor (External)**

- Institute also has external counseling facility by appointing a doctor/ psychological counselor.
- Students are counseled for anger, anxiety and stress management.
- NSS unit organizes periodically special talks/lectures on how to manage stress.

**5.1.9 Does the institution have a structured mechanism for career guidance and placement of its students? If 'yes', detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers (list the employers and the programmes).**

Yes, the institute has a structured mechanism for career guidance and placement of its student. It has Training and Placement (T&P) Cell headed by T&P officer. It has staff coordinators from each department. T&P cell provides all required training programs for the campus interviews of the students. Institute also provides required arrangements for the company people to conduct written tests, group discussions and interviews. Encourages the students to attend campus interviews. Training and placement cell organizes different courses for final year students, to improve their skill for attending campus interview,

- Communication skill improvement program
- Soft skill development program
- Personality development program
- Aptitude training course
- Mock interviews, Technical and HR.
- Employment training program.

**Training and Placement Facility:**

- T&P cell provides effective and efficient training to the students.
- Best employment opportunities for the students.
- It has secured database.
- All necessary training programs are arranged regularly.

Aptitude, communication skill tests are conducted regularly.

**List of Employers and programmes:**

**Table 5.1.9 List of employment programs/ Placement drive conducted in last four years.**

Sl. No	Program	Company	Date	No. of students attended	No. of students shortlisted	No. of students selected
1.	Placement Drive	M/s Parks Control and Tr. Pvt. Ltd. Bangalore	18-10-2011	08	00	00
2.	Placement Drive	Integra Microsoft	25-04-2011	37	06	00
3.	Campus Placement	Patmos HR Services BENTOCHEM Agro	17-02-2012	60	11	10

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	Drive	Pvt. Ltd Makhen soft Pvt.Ltd Kotak ICICI				
4.	Campus Placement	M/S CADMAXX Solution, Bangalore	28-03-2012	70	10	10
5.	Campus Placement	Aarkid Infrateck Pvt. Ltd.	23-04-2012	40	4	1
6.	Campus Placement	M/S Akuva Infotech Ltd.	05-05-2012	53	09	04
7.	Campus placement	C-Tech Software Solution PNU Technologies	08-06-2012	118	21	10
8.	Campus placement	Hi-Tech Engineers, Mumbai	18-06-2012	50	17	05
9.	Campus Placement Drive	M/S I-Protech, Bangalore	19-10-2012	60	14	12
10.	Campus Placement Drive	M/s. DCS Pvt. Ltd. Hyderabad	09-11-2012	196	23	10
11.	Placement Drive	HYMA Plates& Vessels Pvt. Ltd. Hyderabad	20-04-2013	96	18	08
12.	Campus Placement	Net Profit Groups Allahabad	16-04-2013	84	14	10
13.	Campus Placement	SIGMA Pvt. Ltd. Hyderabad	04-04-2013	100	15	11
14.	Campus Placement	IIT Labs Hyderabad	07-05-2013	65	25	15
15.	Campus Placement	Alcatel Lucent-Chennai Ariyan -Chennai	13-05-2013	27	18	15
16.	Campus Placement drive	M/s. Propress Instrumentation Solution Pvt.Ltd. Noida	10-06-2013	60	30	21
17.	Placement drive	TCS, Bangalore	01-12-2013	23	16	03
18.	Campus Placement drive	SunSoft, Bangalore	25-02-2014	40	10	04
19.	Campus Placement drive	MCS Technologies Pvt. Ltd. Hyderabad	10-03-2014	60	10	04
20.	Campus Placement	Alpha Nine Marine Services, Mumbai	04-09-2014	120	16	02

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21.	Campus Placement	Web World Group, Nagpur.	28-10-2014	70	18	10
22.	Campus Placement	Knewron Technologies, Pune. Hirex, Mumbai	28-10-2014	70	11	06
23.	Campus placement Phase-I	Binary Technosys, Mumbai	5 <sup>th</sup> & 6 <sup>th</sup> Nov.2014	120	46	21
24.	Campus placement, Phase-II	Binary Technosys, Mumbai	10 <sup>th</sup> - 12 <sup>th</sup> Nov.2014	90	20	12
25.	Campus placement	Binary Technosys, Mumbai	28-12-2014	105	28	05
26.	Campus placement	Nirman Relaiters & Developers Ltd., Mumbai	24-03-2015	24	10	06
27.	Campus Placement Drive	Innoeye Technologies, Indore	24-04-2015	38	03	00
28.	Campus Placement	Tristar International Ltd., Mumbai	13-05-2015	48	14	14
29.	Campus placement	Toshnival Brother Ltd. Mumbai	14-05-2015	60	09	04
30.	Campus placement Drive	Vidusys Info System pvt. Ltd., ekinwise technologies pvt. Ltd., Mumbai	05-11-2015	102	18	05

### 5.1.10 Does the institution have a student grievance redressal cell? If yes, list (if any) the grievances reported and redressed during the last four years.

Yes, the institute has a separate **Grievance Redressal Committee**

Separate committee is there for Grievance redressal; special cases of problems associated with students are discussed and solved by this committee.

**Table 5.1.10 details of Grievance Redressal Committee**

Sl. No	Name	Designation	Status
1	Dr. Ashokkumar Koti	SWO & HOD Applied Science & Humanity Dept.	Chairman
2	Dr. Nagashetty Biradar	Associate Professor Electronics & Communication Dept.	Member
3	Prof. Rajkumar Patil	Associate Professor Computer Science & Engineering Dept.	Member

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4	Prof. Ashok. G	Associate Professor Mechanical Engineering Dept.	Member
5	Prof. B. S. Patil	Assistant Professor Chemical Engineering Dept.	Member
6	Sri Vijaykumar Bardapure	Superintendent Administration Section	Member
7	Dr. Geetanjali Alle	Assistant Professor Applied Science & Humanity Dept.	Member

### 5.1.11 What are the institutional provisions for resolving issues pertaining to sexual harassment?

Yes, the Institute has Anti Sexual harassment committee as per the norms of UGC. Institute has constituted Anti Sexual Harassment Committee (ASH) to build Self-esteem & Dignity among girl students and ladies faculty and staff members.

#### Objectives of the committee are

- To build Self-esteem & Dignity among the Girls and Ladies, faculty and staff members.
- To offer services such as Counseling, Legal aid in case of atrocities against women.
- To Create Awareness regarding Women Rights.
- To arrange Programs regarding Health and Personality Development.
- To Avoid and prohibit harassment at Workplace.
- To prevent sexual harassment and other related crimes against girl students and ladies Faculty members.

ASH Committee conducts regular meeting girl students and ladies staff. Committee organizes awareness programs (like awareness about women rights, awareness about health and personality development, psychological aspects of human brain), counseling to students, conferences for awareness about women empowerment for students, faculty and other staff to develop a friendly, non-threatening environment in the institution.

There are no such incidents of sexual harassment/threatening so far in the institute.

**Table 5.1.11 Anti Sexual Harassment Committee (ASH)**

Sl. No.	Name and address of the Member	Phone Number	Designation	Gender	Status
1	Dr. B. B. Lal Principal BKIT, Bhalki-585328	9449822128	Principal	Male	Chairman
2	Smt. Kalpana Chikatwar, Near Fire Station, Sharan Nagar	9448333716	Faculty E&CE Dept	Female	Member Secretary

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	Bhalki-585328 Dist-Bidar				
3	Shri. Somanath Mulge Bkit, Bhalki-585328	9731051232	Registrar	Male	Member
4	Dr. Veenakumari HOD Geology Department AMMMV, Bidar-585401	9449002128	Representative of Voluntary Organization, AMMMV, Bidar	Female	Member
5	Dr. Vazra V. Hireguoder Professor Psychology Department, AMMMV, Bidar- 585401	9880604507	Faculty Psychology Dept, AMMMV, Bidar	Female	Member
6	Smt. Geetanjali Alle Behind Nightingale school, Near Ring Road Towards Hyderabad Siddharoodh, Gumpa-Bidar	9448845540	Faculty AS&H Dept	Female	Member
7	Smt. Geeta Patil C/o. Dayanand Kanaje Ganesh Nagar Lecture Colony Bhalki-585328	9482167365	Faculty CSE Dept	Female	Member
8	Shri. A. Pandurang H.No.8-9-270/A85/1 Guru Nanak Colony Bidar-585401	9449303406	Faculty Civil Dept	Male	Member
9	Ankita S Girls Hostel BKIT, Bhalki-585328	974360561	Student	Female	Member
10	Prashanth Kaknale Sharan Nagar, Near Fire Station, Bhlaki-585328	8951777053	Student	Male	Member

### 5.1.12 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

Yes, As per the guidelines from the Supreme Court/UGC/AICTE/VTU/Karnataka State Government the institution has constituted an anti-ragging committee and anti-ragging squad. The main objective of anti-ragging committee is to root out ragging in all its forms from the campus by instituting stringent anti-ragging measures and provisions for strict punishments to defaulters. The committee members had regular interaction & counseling with the students. Anti-ragging warnings were mentioned in the institution's prospectus and information brochures. Committee members frequently take the surprise inspection/visits to hostels, student accommodation, canteen, rest rooms, toilets, bus-stands etc. The institution ensures strict compliance of anti-ragging measures. Anti-ragging posters are displayed at all the

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prominent places like admission centre, Departments, Library, canteen, Hostel, common facilities etc.

**So for no ragging case has been reported during the last four years.**

### **Terms of reference**

- Supreme court orders
- Karnataka Govt. and VTU orders dated 16 July 2011
- UGC Draft regulations and guidelines April 2009

### **Prohibition of ragging**

- Ragging within the campus including its Departments and Hostels is strictly prohibited.
- Ragging in any form is prohibited also in the private lodges/buildings where students of this institute are staying.
- No person including students / staff / faculty shall participate or encourage or propagate ragging in any form.

### **Punishments**

- Ragging is a cognizable offence under the law and the punishments to be meted out, have to

be exemplary and justifiably harsh to act as a deterrent. It may include:

- Cancellation of admission, suspension, rustication or expulsion from the Hostel/College/University.
- FIR with the police and arrest.
- More severe punishment where justified such as fine / imprisonment etc.
- Collective punishment may be imposed where involved persons are not identified.

### **Anti-ragging committee**

- Institution will form an "**Anti-Ragging Review Committee**" headed by the Head of Institution. It will comprise of selected faculty members, parents, students from the freshers category as well as seniors and selected non-teaching staff.
- This Committee will be fully and totally responsible to ensure that no incidence of ragging as given in these regulations takes place and will also monitor and ensure that the instructions of these regulations are followed fully at all times.
- The Committee will also maintain alert vigil at all times and ensure that the Anti-Ragging Squads of the Institutions carry out their functions properly.

### Anti-Ragging Squads

- Each Head of Institution will constitute a number of Anti-Ragging Squads. The number of squads will be based on the number of blocks/floors and strength of the students so that anti-ragging measures can be effectively implemented.
- Anti-Ragging Squads will comprise of senior faculty members and responsible representatives of senior and fresher students. Its function will include going around / patrolling the Institution and the Campus common areas, maintain vigil and take action if they notice any incidence of ragging either in their Institution or any other Institution / or in the Campus.
- The Squads will also have the responsibility to investigate incidences of ragging and to report to the Anti-Ragging Committee /Anti-Ragging Control Room for immediate action / punishment wherever required.
- All Heads of Institutions will forward the names of Anti Ragging Committees and Anti-Ragging Squads to AUUP HQs. Anti-Ragging Monitoring Cell.
- On the report of Anti-ragging Squad or any other person who witnesses the incidence of ragging or on the complaint of any fresher student, immediate action will be taken by the Anti - Ragging Committee to decide appropriate punishment from the list of punishments in the Regulations and award it with intimation to the University HQ.

**The Vigilance Flying Squad with the following members has been constituted w.e.f. 30-07-2015.**

The Flying squad continuously and at all times shall take precautionary measures to see that no ragging takes place inside the class room, within the college premises, hostel premises and other outside surrounding places. The Flying Squad will be personally held responsible for occurrence of ragging in any form and of any kind, If necessary, the help of the local police shall be availed for the total elimination of the ragging.

**Table 5.1.12.1 Flying Squad member's details**

Anti-Ragging Squad-A		
Sl. No.	Member of the Flying Squad	Designation
1	Dr. T. S. Vishwanath - HOD E&CE	Chairman
2	Prof. Sanieev Doijode – HOD Mech.	Member
3	Sri. Rajkumar B Patil - Comp.Sc	Member



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4	Sri Umesh Masimade - Senior Librarian	Member
5	Sri S.N. Kudte - Physical Director	Member
<b>Anti-Ragging Squad-B</b>		
Sl No	Member of the Flying Squad	Designation
1	Prof. S. V. Biradar, HOD Civil	Chairman
2	Sri M.A. Devani - HOD Chemical	Member
3	Sri Basavaraj Prabha - HOD MCA	Member
4	Dr. Vijaykumar Durg - AS&H Dept.	Member
5	Sri Basavaraj Kawadi - T&P Officer	Member

All newly admitted students of BE First Semester are informed that ragging in any form directly or indirectly has been banned by the Government and the college also has a Ragging Prevention Committee consisting of Principal, Registrar, Warden & all HOD's has been formed. Accordingly if ragging in any form inside or outside the college campus takes place by any students, immediately information should be given to the Principal, Registrar, Warden & HOD or even to any employee of the college.

**Table 5.1.12.2 Details of members in Ragging Prevention Committee for 1<sup>st</sup> year students.**

Sl.No	Name	Designation	Phone number
1	Dr. Bipin Bihari Lal	Principal	9449822128
2	Prof. P.N. Divakar	Vice Principal	9448505994
3	Sri Somnath Mulge	Registrar	9731051232
4	Sri B. M. Patil	Senior Warden	9448349711
5	Sri Anilkumar Kodge	Warden, Boys Hostel	9448715561
6	Smt. Geeta Patil	Warden, Girls Hostel	9482167365
7	Dr. Ashokkumar Koti	HOD AS&H Dept. & SWO	9448461738
8	Prof. S.V. Biradar	HOD Civil Dept.	9448587453
9	Prof. Sanjeev Doijode	HOD Mechanical	9448567869
10	Prof. M. Chandrashekhar	Professor, Mechanical	9448222672
11	Dr. T.S. Viswanath	HOD E&CE Dept.	9972605505
12	Dr. A.M. Bhavikatti	HOD Comp.Sc. Dept.	9483996117
13	Sri M. A. Devani	HOD Chemical Dept.	9480757320
14	Sri Basavaraj Prabha	HOD MCA Dept.	9449813158
15	Sri Baswaraj Kawadi	T&P Officer	9448572246
16	Sri Umesh Masimade	Senior Librarian	9448322485
17	Police Station		262323
18	Dy. Suptd. of Police		262233
19	Tahasildar		262218

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The Anti-Ragging Review Committee has been constituted w.e.f. 05-07-2014 as mentioned below for 2014-15:

**Table 5.1.12.3 Members of Anti-Ragging Review Committee**

SI No	Member of Flying Squad	Designation
1	Dr. Bipin Bihari Lal – Principal	Chairman
2	Prof. P.N. Divakar – Vice Principal	Member
3	Prof. A.M. Bhavikatti – HOD CSE	Member
4	Dr. Ashokkumar Koti – HOD AS&H	Member
5	Sri Somnath Mulge – Registrar	Member
6	Sri B.M. Patil – Senior Warden	Member
7	Smt. Gaeta Patil – Warden, Girls Hostel	Member
8	Sri Anilkumar Kodge - Warden Boys Hostel	Member
9	Sub Inspector, Town Police Station, Bhalki	Member
10	(Student Representation)	Member
11	(Student Representation)	Member

The committee meets periodically on every Saturday and reviews the situation and initiates effective measures. Depending upon the necessity the Committee will also meet in the hostel. The committee as a whole or in separate group will undertake surprise visits to Colleges and Hostels frequently and make sure that no incidents or ragging have been taking place.

### 5.1.13 Enumerate the welfare schemes made available to students by the institution

- Students are provided with scholarships/fee waiver schemes.
- Semester toppers are awarded with cash prizes.
- Book bank facility for all the students.
- Students are assisted in placement.
- Transportation is available at nominal cost for students coming from Bidar.
- Railway concession forms are provided to the students.

### STUDENTS WELFARE OFFICE:

From the inception of the college, the student Welfare Officer takes care of problems of the students arising in the college campus, whether related to scholarship of students by Central Govt. / State Govt/Defense. Public and private sector Organization, NGOs or Religious and Minorities Trusts; Railway and air concession; Bus pass, Participation of student in cultural, Co-curricular and other types of events including youth festivals, sports etc. and Guidance & counseling of students in required aspects of students. HE acts as bridge between students,

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staff and administration for all-round development of all the concerned. In consultation with the students and parents, SWO lists out the various problems of student's community and brings into the notice of the Principal. SWO advise senior students not to indulge in ragging activities and maintain high level discipline in the campus. He works as a coordinator between various departments in solving the student's genuine problems. SWO encourages the students to participate in extracurricular activities like participating in Technical fests (events), paper presentation at our institute and also at the institutes across the country wherever it is possible to participate by them. He motivates the students for participating in National/State/Zonal/Inter zonal/Cricket/Chess/Kabbaddi/tournaments.

### **5.1.14 Does the institution have a registered Alumni Association? If 'yes', what are its activities and major contributions for institutional, academic and infrastructure development?**

Yes. The college has a registered alumni association. Alumni meet is conducted by alumni association of the institute. Alumni members share their experience, skills, project ideas, knowledge and opinions with present students. Alumni contribution towards extending the activity for the institutional, academic infrastructure development. References from alumni will be taken for the placement and project of the present students.

**Table 5.1.14.1 Alumni Association Meetings**

Sl. No	Name of the Association	Duration & Year	No. of students participated
1	REC-BKIT-Bhalki Alumni Association	One day 9 <sup>th</sup> Apr 2011	160
2	REC-BKIT-Bhalki Alumni Association	One day 11 <sup>th</sup> Apr 2015	203

**Table 5.1.14.2 List of Expert Talks by Alumni**

Sl. No	Name of Alumni	Department	Topic
1	Pratap Hulsure	E&CE	Information Security and Protection
2	Rajashekhar Reddy	E&CE	Wireless LAN
3	Ranbir Singh	E&CE	Applications of Biomedical in Industry
4	Amrish Sharma	E&CE	Fiber Networks
5	Bala Nemani	Mechanical	Career opportunities
6	P.K Sharma	Mechanical	Marketing of Industrial Maintenance consumables Versus capital equipments.

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7	Rajesh Patil	Mechanical	Computational Fluid Dynamics
8	Sanjay Goutham	CSE	Mobile communication
9	Shivakumar Hedgapure	CSE	Satellite Communication
10	Vipan Sharma	CSE	Development in Aircraft Avionics & Embedded Systems
11	G.K Patil	CSE	AGILE Methodology in Aerospace Development
12	Rahul Shetty	Chemical	Industrial safety
13	Chetan Kumar	Chemical	Heat Exchanger Design
14	Anand Ghosh Roy	Chemical	Procurement & Supply Chain management
15	Satyapal Tompe	Civil	Project Management
16	Veeresh	Civil	Construction Management
17	Kashinath Gomme	Civil	Preparation of detailed project report
18	Ravi Joldapke	MCA	Project Process Flow

### 5.2 Student Progression

**5.2.1 Providing the percentage of students progressing to higher education or employment (for the last four batches) highlight the trends observed**

**Table 5.2.1 Percentage of Students progressing to higher education and employment**

<b>Computer Science and Engineering</b>				
<b>Year</b>	<b>2011-12</b>	<b>2012-13</b>	<b>2013-14</b>	<b>2014-15</b>
<b>Student progression</b>	<b>Against % enrolled</b>	<b>Against % enrolled</b>	<b>Against % enrolled</b>	<b>Against % enrolled</b>
UG to PG	12	21	10	26
PG to M.Phil.	NIL	NIL	NIL	NIL
PG to Ph.D.	NIL	NIL	NIL	NIL
Ph.D. to Post-Doctoral	NIL	NIL	NIL	NIL
Employed	27	59	20	29
-Campus selection	61	20	70	45
-Other than campus recruitment				
Entrepreneurship/Self-employment	NIL	Nil	NIL	NIL
<b>Chemical Engineering</b>				
<b>Year</b>	<b>2011-12</b>	<b>2012-13</b>	<b>2013-14</b>	<b>2014-15</b>
<b>Student progression</b>	<b>Against % enrolled</b>	<b>Against % enrolled</b>	<b>Against % enrolled</b>	<b>Against % enrolled</b>
UG to PG		13.63		4.5
PG to M.Phil.	NIL	NIL	NIL	NIL
PG to Ph.D.	NIL	NIL	NIL	NIL

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Ph.D. to Post-Doctoral	NIL	NIL	NIL	NIL
Employed				
-Campus selection	NIL	NIL	NIL	NIL
-Other than campus recruitment	90	80	63	100
Entrepreneurship/Self-employment	NIL	Nil	NIL	NIL
<b>Civil Engineering</b>				
<b>Year</b>	<b>2011-12</b>	<b>2012-13</b>	<b>2013-14</b>	<b>2014-15</b>
<b>Student progression</b>	<b>Against % enrolled</b>	<b>Against % enrolled</b>	<b>Against % enrolled</b>	<b>Against % enrolled</b>
UG to PG	12	15	20	17
PG to M.Phil.	NIL	NIL	NIL	NIL
PG to Ph.D.	NIL	NIL	NIL	NIL
Ph.D. to Post-Doctoral	NIL	NIL	NIL	NIL
Employed				
-Campus selection				
-Other than campus recruitment	11 25	13 30	17 35	30 45
Entrepreneurship/Self-employment	03	05	10	5
<b>Mechanical Engineering</b>				
<b>Year</b>	<b>2011-12</b>	<b>2012-13</b>	<b>2013-14</b>	<b>2014-15</b>
<b>Student progression</b>	<b>Against % enrolled</b>	<b>Against % enrolled</b>	<b>Against % enrolled</b>	<b>Against % enrolled</b>
UG to PG	35	38	41	42
PG to M.Phil.	NIL	NIL	NIL	NIL
PG to Ph.D.	NIL	NIL	NIL	NIL
Ph.D. to Post-Doctoral	NIL	NIL	NIL	NIL
Employed				
-Campus selection				
-Other than campus recruitment	35 23	43 25	21 26	25 20
Entrepreneurship/Self-employment	05	02	02	13
<b>Electronics and Communication Engineering</b>				
<b>Year</b>	<b>2012-13</b>	<b>2013-14</b>	<b>2014-15</b>	<b>2015-16</b>
<b>Student progression</b>	<b>Against % enrolled</b>	<b>Against % enrolled</b>	<b>Against % enrolled</b>	<b>Against % enrolled</b>
UG to PG	45	55	62	60
PG to M.Phil.	NIL	NIL	NIL	NIL
PG to Ph.D.	NIL	NIL	NIL	NIL
Ph.D. to Post-Doctoral	NIL	NIL	NIL	NIL

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Employed				
-Campus selection	30	10	15	12
-Other than campus recruitment	15	11	13	19
Entrepreneurship/Self-employment	01	NIL	01	01
<b>Master of Computer Applications</b>				
<b>Year</b>	<b>2011-12</b>	<b>2012-13</b>	<b>2013-14</b>	<b>2014-15</b>
<b>Student progression</b>	<b>Against % enrolled</b>	<b>Against % enrolled</b>	<b>Against % enrolled</b>	<b>Against % enrolled</b>
UG to PG	NIL	NIL	NIL	NIL
PG to M.Phil.				
PG to Ph.D.	NIL	NIL	NIL	NIL
Ph.D. to Post-Doctoral	NIL	NIL	NIL	NIL
Employed				
-Campus selection	25	30	27	13
-Other than campus recruitment	30	35	33	42
Entrepreneurship/Self-employment	01	02	01	01

**5.2.2 Provide details of the programme wise pass percentage and completion rate for the last four years (cohort wise/batch wise as stipulated by the university)? Furnish programme-wise details in comparison with that of the previous performance of the same institution and that of the Colleges of the affiliating university within the city/district.**

**Table 5.2.2.1 Details of program wise pass percentage of UG Students**

Sl. No	Year	Course	No. of students Admitted	No. of students passed (final year)	Pass percentage of students (%)
1	2011-12	Mechanical Engineering	126	123	98.00
	2012-13		116	102	87.82
	2013-14		108	103	95.45
	2014-15		116	111	95.69
2	2011-12	Electronics & Communication Engineering	115	109	94.73
	2012-13		96	92	95.74
	2013-14		135	118	87.59
	2014-15		103	89	86.00
3	2011-12	Computer Science and Engineering	104	97	93.00
	2012-13		69	66	96.00
	2013-14		72	62	86.00

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	2014-15		69	61	88.00
4	2011-12	Civil Engineering	32	20	63.00
	2012-13		34	26	77.00
	2013-14		31	25	81.00
	2014-15		28	22	79.00
5	2011-12	Chemical Engineering	18	18	100
	2012-13		27	25	92.50
	2013-14		22	22	100
	2014-15		11	11	100

**Table 5.2.2.2 Details of pass percentage of PG Students**

Sl. No	Year	Course	No. of students Admitted	No. of students passed (final year)	Pass percentage of students (%)
1	2011-12	MCA	--	--	--
	2012-13		32	32	100
	2013-14		33	33	100
	2014-15		36	36	100
2	2012-13	M.Tech-GTE	13	05	40
	2013-14		07	07	100
	2014-15		16	14	88
3	2012-13	M.Tech-WRM	03	01	34
	2013-14		02	01	50
	2014-15		02	01	50
4	2013-14	M.Tech-CSE	18	18	100.00
	2014-15		14	14	100.00
5	2013-14	M.Tech-DCN	18	18	100.00
	2014-15		16	16	100.00

### 5.2.3 How does the institution facilitate student progression to higher level of education and/or towards employment?

The college facilitates the students' progression by conducting the training classes for competitive exams, with the expert lecturers and invited lectures.

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**Table 5.2.3 Training for preparation to appear Competitive Exams:**

Sl.No	Program	Speaker	Compny	Date
1.	Training for Competitive Exams	Ranjan Raj Vaibhav Inamdar	C-DAC Pune	2014
2.	GATE awareness & scholarship exam	Manoj Sharma	TIME, Hyderabad	2014
3.	Training for Competitive Exams	CDAC	CDAC	19-04-2012
4.	Seminar On GATE Preparation	Mr. Liyaqat ali .N. Dafedor	Director GATE Academy Bangalore	05-10-2012
5.	MOCK-Test on GATE	Mr. Mukhtar	Manager GATE Academy Bangalore	05-10-2012
7.	GATE awareness program	Mr. Raghupati	The GATE Academy Pvt. Ltd, Bangalore	30-09-2014

**Table 5.2.3.2 Student enrichment programmes (special lectures/seminar) with external experts:**

Sl. No.	Resource Person	Topic	Date
<b>Mechanical Engg.</b>			
1.	Sachhidanand Das DRDO – Hyderabad	Finite Element Techniques & its Industrial Applications	02/03/2013
2.	Mr.Venkatesh RIIIT - Mysore	Job Empowerment	21/03/2013
3.	Mr.Pradeep Kallar MD-MEDINI AutoDesk Bangalore	Auto Cad software Auto Cad, 3D – Max ETZ	21/03/2013
4.	Prof . S.Jaykumar International School of Business and Media	Personality Development	24/02/2014
5.	Mr.Rajesh.V.D COPES Technologies – Bangalore	Innovative Product Design	08/09/2014
6.	Mr.Sheshank Nahar Tech –Director ASE –Bangalore	Software Training in CATIA – Pro E,Hypermesh	07/03/2015
7.	Mr.Subhash Birge Solution Manager,Geometric Ltd.Pune.	3D – printing and connected cars	03/10/2015



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8.	Dr.Narsimhan Prof.IISc – Bangalore	Solar Cooling	06/02/2016
<b>Civil Engg.</b>			
9.	Dr. P.G. Shastry BOG Member	<b>A special talk on Engg. Mechanics to B.E. I and II semester students</b>	19/12/2015
10.	Dr. P.G. Shastry BOG Member	A special talk on Ground water Hydrology for UG and PG students	20/12/2015
<b>Chemical Engg.</b>			
11.	Peer Ahmad  General Manager, MYLON Hyd	Role of Chemical Engineers in Pharmaceutical Industries	03/02/2016
12.	Rahul Sethi	Latest Trends in Chemical Industries	10/04/2015
13.	Trimbak Pawar Udgir	Personality development	16/12/2015
14.	Dr. S. Pilli Belgaum	Problem Solving in Engg Context	19/12/2015
15.	Sanjeev kumar Chettinad Cement Chincholi Kalaburgi	Employability of Chemical Engineers	20/03/2014
16.	Dr. Sridhar Pandey PDACE Kalaburgi	Fuel cells	12/03/2013

### 5.2.4 Enumerate the special support provided to students who are at risk of failure and drop out?

The College arranges remedial classes for slow learners and weak students in subjects like Mathematics, Physics, chemistry etc. Also the departments arrange remedial classes on need basis in higher semesters.

### **5.3 Student Participation and Activities**

#### **5.3.1 List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and program calendar.**

College provides range of sports, games, cultural and other extracurricular activities for the students.

**Table No. 5.3.1.1 Details of NSS activities conducted during the academic year 2015-16.**

<b>Sl. No</b>	<b>Activity</b>	<b>Date</b>
1	International Yoga Day Celebration	21-06-2015
2	National Sadbhavana Day Celebration	20-08-2015
3	Voluntary Blood Donation Camp on the occasion of National Sadbhavana Day	20-08-2015
4	NSS Foundation Day Celebration	24-09-2015
5	Special Talk on Personality Development on the occasion of 153 <sup>rd</sup> Birth anniversary of Swami Vivekananda.	12-01-2016
6	Nadi Parikshana Camp ( Health Check-up camp)	28-01-2016
7	International Women's Day Celebration	21-03-2016

**Table No. 5.3.1.2 Details of NSS activities conducted during the academic year 2014-15.**

<b>Sl. No</b>	<b>Activity</b>	<b>Date</b>
1	Engineers Day Celebration	15-09-2014
2	National Sadbhavana Day Celebration	20-08-2014
3	NSS Foundation Day Celebration	24-08-2014
4	Free Health Check-up Camp on the occasion of 46 <sup>th</sup> NSS Foundation Day.	27-09-2014
5	National Education Day celebration on the occasion of birth anniversary celebration of Sri Moulana Abul Kalam Azad.	11-11-2014
6	Observance of, "International Student Day"	17-11-2014
7	Special Talk on Personality Development on the occasion of 152 <sup>nd</sup> Birth anniversary of Swami Vivekananda. Sri Abhayanandji Maharaj Centre in charge Swami Ramakrishna Vivekananda Vedantashram, Bangalore delivered the talk.	31-01-2015
8	Free Eye and Dental Check-up camp	23-02-2015

**Table No. 5.3.1.3 Details of NSS activities conducted during the academic year 2013-14.**

<b>Sl. No.</b>	<b>Activity</b>	<b>Date</b>
1	National Sadbhavana Day Celebration	20-08-2013
2	Engineers Day Celebration	15-09-2013
	NSS Foundation Day Celebration	24-09-2013
3	Blood Donation Drive Training Program in association with Sankalp India Foundation, Bangalore.	16-09-2013
4	Voluntary Blood Donation Camp	09-11-2013

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5	NSS Volunteers participated in the, “State Level NSS Youth Festival” organized By Gulbarga University, Gulbarga.	18 to 22 Jan 2014
6	Free Dental Check-up Camp	20-03-2014
7	Free Eye Check-up Camp	24-03-2014
8	“Yoga Shibir” in association with Art of Living Foundation, Bangalore.	22-03-2014
9	Seven Day’s Special Camp	18 to 24Mar 2014.

**Table No. 5.3.1.4 Details of NSS activities conducted during the academic year 2012-13.**

Sl. No	Activity	Date
1	13 <sup>th</sup> Smaranotsava Celebration of Poojyasri Dr. Ma. Gha. Cha. Channabasava Pattadevaru	22-04-2012
2	Tree Plantation(First phase)	17-08-2012
3	National Sadbhavana Day Celebration	20-08-2012
4	Engineers Day Celebration	15-09-2012
5	NSS Foundation Day Celebration	24-09-2012
6	Tree Plantation at BKIT, campus(Second phase)	04-09-2012
7	Blood Donation Drive Training Program in association with Sankalp India Foundation, Bangalore.	16-09-2012
8	Voluntary Blood Donation Camp	09-11-2012
9	Free Dental Check-up Camp at Halbarga village	15-02-2013

**Table No. 5.3.1.5 Details of NSS activities conducted during the academic year 2011-12.**

Sl. No	Activity	Date
1	NSSPO attended one day orientation program at NSS VTU Cell, Belgaum	13-07-2011
2	NSS volunteers prepared pits for Tree plantation at Amar Hostel, BKIT, Bhalki	05-08-2011 to 08-08-2011
	Tree Plantation at Amar Hostel, REC College, Bhalki.	09-08-2011
3	Four days Yoga Shibir (Navachetana Shibir) organized in association with ART OF Living Foundation, Bangalore.	24-08-2011 to 27-08-2011
4	Celebrated Engineers Day on the occasion of 151 <sup>th</sup> Birth Anniversary of Sir M. Visveswaraiah	15-09-2011
5	Celebrated Mahatma Gandhi Jayanti & Sri Lal Bahaddur Shastri Jayanti (Late prime Minister of India).	02-10-2011
6	Karnataka Rajyotsav Day Celebration.	01-11-2011
7	Blood Group Identification Camp	08-11-2011 to 10-11-2011
8	Free Dental Check-up camp at adopted Village Kon-melkunda	10-11-2011

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9	NSS Volunteers, coordinators& Members participated in the Birth anniversary of Late Sri Ma. GHA. CHA. Channabasava Pattadevaru	22-12-2011
10	Celebrated NSS Day	15-01-2012
11	Celebrated Swami Vivekananda Jayanti	12-01-2012
12	NSS Seven Day's Special Camp at adopted village Dadgi of Bhalki Taluka	21-02-2012 to 27-02-2012

### CULTURAL ACTIVITIES CONDUCTED:

Various cultural activities are conducted during departmental functions such as Fresher's Meet & Fare Well, conferences/women empowerment programs/ISTE student chapter programs etc. Various competitions are also conducted during these cultural activities like mehendi, rangoli, singing, dancing, hair-style, skits, best chef, best from waste, box cricket, ramp show, chess, carom, cricket, valley ball etc.

Sl. no	Seminars/Conferences/ Workshops organized	National /International	Duration
1	National Conference on Women Empowerment(WE-2015)	National	29-30 March, 2015
2	One day National Level Workshop on WE-Women in New Era-2014	National	8 March, 2014
3	Two days National Level Seminar on WE-Women for Excellence-2013	National	8 March, 2013
4	One Day National Level workshop on Women Empowerment-2012	National	20 March, 2012
5	International Conference on Communication , Computation and Management (ICN-2011)	International	23-25 September, 2011
6	National level "Symposium Mech – Mantra".	3 Days.	14 <sup>th</sup> to 16 <sup>th</sup> May 2013.
7	Symposium "Chemvision 2013"	National	13 <sup>th</sup> April 2013 01 day

**Table No. 5.3.1.7: Details of Cultural activities conducted during the academic year 2015-16.**

Sl. No	Activity	Date
1	Independence Day Celebration	15-08-2015
2	Teachers day	05-09-2015
3	Karnataka Rajyotsava Day	01-11-2015
4	Birth Anniversary Celebration of Late Poojyasri Dr. MA. GHA. CHA. Channabasava Pattadevaru founder SVE Society, Bhalki	22-12-2015
5	Republic Day	26-01-2016
6	International Women's Day Celebration	21-03-2016
7	Get-Together -2016	02-04-2016

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**Table No. 5.3.1.8 Details of Cultural activities conducted during the academic year 2014-15.**

Sl. No	Activity	Date
1	Independence Day Celebration	15-08-2104
2	Teachers day	05-09-2014
3	Karnataka Rajyotsava Day	01-11-2014
4	Birth Anniversary Celebration of Late Poojyasri Dr. MA. GHA. CHA. Channabasava Pattadevaru founder SVE Society, Bhalki	22-12-2014
5	Republic Day	26-01-2015
6	International Women's Day	29-03-2015

**Table No. 5.3.1.9 Details of Cultural activities conducted during the academic year 2013-14.**

Sl. No	Activity	Date
1	Independence Day Celebration	15-08-2103
2	Teachers day	05-09-2013
3	Karnataka Rajyotsava Day	01-11-2013
4	Birth Anniversary Celebration of Late Poojyasri Dr. MA. GHA. CHA. Channabasava Pattadevaru founder SVE Society, Bhalki	22-12-2013
5	Republic Day	26-01-2014
6	International Women's Day	08-03-2014

**Table No. 5.3.1.10 Details of Cultural activities conducted during the academic year 2012-13.**

Sl. No	Activity	Date
1	Independence Day Celebration	15-08-2102
2	Teachers day	05-09-2012
3	Karnataka Rajyotsava Day	01-11-2012
4	Birth Anniversary Celebration of Late Poojyasri Dr. MA. GHA. CHA. Channabasava Pattadevaru founder SVE Society, Bhalki	22-12-2012
5	Republic Day	26-01-2013
6	International Women's Day	21-03-2013

**5.3.2 Furnish the details of major student achievements in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. for the previous four years.**

**Table No. 5.3.2 Details of Major achievements at University Level**

Sl. No	Year	Name of the Student	Event	Position/Rank
1	2015-16	Mr. Prashant Kakanale	National Technical paper presentation contest	Best paper award, Techovision-2016, Technical paper presentation contest held at Govt. College of Engg. Jalagaon. Maharashtra
		Ankit B & Sagar Jaiswal	TCS-Techbytes Quiz	Regional Winner
2	2014-15	Joshi Omkar Girish Roshan K. Y Prabesh Oza	Table Tennis competition organized by VTU for Inter Collegiate Zonal Tournaments of Kalaburgi Zone, held at GNDEC Bidar, Karnataka	Winner Zonal Level Competition VTU, Belgaum
		Prasanth K.	National Technical and cultural fest	Runner up in E-BUZZ-7 event Word war 7 Held at, GNDEC Bidar, Karnataka
		Bhagyashree	Second Highest scorer	Ultratech Cement Bidar
		Pawan Pola & Ashay Mishra	TCS-TECHBYTES QUIZ	Runnerup
3	2013-14	Mr. Prashant Kakanale	Debate Competition	3 <sup>rd</sup> Inter University level
		Mr. Yogesh	Debate Competition	3 <sup>rd</sup>
		Ropangshu Sharma & S.Nagendra	TCS-TECHBYTES QUIZ	Regional Winner

**5.3.1 How does the college seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?**

The college collects feedback from its graduates and employers and uses it to develop its curricula, improve the facilities and the overall status of the college. The college organizes alumni meet periodically and collects the feedback and uses it in the improvement of the college

**5.3.2 How does the college involve and encourage students to publish materials like catalogues, wall magazines, college magazine, and other material? List the publications/ materials brought out by the students during the previous four academic sessions.**

Institute encourages the students and other staff members to post their articles, poems, drawings, thoughts etc. in Wall Magazines/College Magazines. It provides a medium for the students and other staff members to express their creativity. And institute also provides

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opportunity for the students to involve & contribute for the institutional Newsletter.

### **5.3.3 Does the college have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.**

The College has YRC Unit, NSS Unit, and Department Student & staff associations etc. which motivate students to develop their personality by participating in various social activities. Also they motivate students to participate and publish their articles both technical and general in various national and international conferences and seminars. They conduct major inter/intra Institutional events periodically. The source of funding is from Institute and VTU, Belagavi.

### **5.3.6 Give details of various academic and administrative bodies that have student representatives on them.**

There are various administrative bodies in the college which have student representatives. The student representatives are invited for the conduction of Cultural activity, College fests, Workshops, Science fests, Fresher's day annual day and forum activities and to represent in Governing body, Academic Council.

**Table No. 5.3.6 List of Committees**

Sl. No.	Name of the Committee
1	Anti-Ragging Committee
2	Anti-Sexual Harassment Committee
3	NSS Committee
4	Cultural Committee
5	College News letter and Magazine Committee
6	Disciplinary action Committee
7	Mess and Food Quality maintenance Committee
8	Sports committee
9	ISTE committee
12	YRC Unit
13	Alumni Association
14	Departmental staff & student Association (ESSA, MESSA, CESSA, CHESSA etc.)

### **5.3.7 How does the institution network and collaborate with the Alumni and former faculty of the Institution**

Yes the college is having a registered alumni association. The alumni association is engaged in organizing alumni meet from time to time and planned extend its activity regarding Student Support and Progression. Alumni cell organizes Alumni meet periodically.

T&P cell and NSS Units organizes various training and personality development activities for students.

Departments organize various workshops/ Seminars/ Conferences and training

programs by calling Experts from IIT's and alumni as resource persons.

Interaction with former faculty members is done by inviting them as resource persons for workshops, seminars and conferences.

**Any other relevant information regarding Student Support and Progression which the college would like to include.**

As per the Karnataka state government order College has constituted the **Parent's-Relation Centre** on 03-11-2014. Principal Dr. B. B. Lal is the chairperson of the committee. The basic idea is to involve parents in college activities and to keep the parents in touch with the institution and about their children's academic progress. The committee members had regular meetings & interaction with the parents and students. They provide their valuable suggestions to reinforce Students Support System.

**Table 5.3.7 Members of Parent's-Relation Centre**

Sl. No.	Member of Flying Squad	Designation
1	Dr. Bipin Bihari Lal – Principal	Chairman
2	Prof. P.N. Divakar – Vice Principal	Member
3	Dr. Vijaykumar Durg	Member
4	Sri B. S. Patil	Member
5	Sri Hanamant Kulkarni	Member
6	Smt. Shivaraj Biradar	Member
7	Sri Vijaykumar Patil	Member
8	Sri Baswaraj Mamma	Member
9	Sri Suryakant Suryan	Member
10	Sri Shivalingaraj Kumbar	Member
11	Sri Shivaji Kone	Member
12	Sri Kalyanrao udbale	Member
13	Sri Shantkumar Shetkar	Member
14	Sri Gurubasappa Khandre	Member
15	Sri Pavan Dixit	Member
16	Sri Rajendra Kumar Kamshetty	Member
17	Sri Baswaraj Hegdagapure	Member
18	Sri Anand Diwan	Member
19	Sri Kantayya Swamy	Member



## **CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT**

### **6.1 Institutional Vision and Leadership**

**6.1.1 State the vision and mission of the institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institution's traditions and value orientations, vision for the future, etc.?**

**Vision:**

To build globally competent professionals in the field of Engineering, Management and Information Science by providing value and need based quality education.

**Mission:**

To impart technical and management expertise and to inculcate Professionalism to deliver needs of the society to excel in real life situation at all levels.

**Objectives:**

- To build a campus of excellence for the promotion of quality education.
- To emphasize on Faculty Development Programme, Research and Development activities.
- To encourage and to motivate students for higher achievements and to develop their soft skills in emerging fields.
- To provide technical expertise to overcome the problems being faced by people in and around.
- To get the institute accredited globally.

**6.1.2 What is the role of top management, Principal and Faculty in design and implementation of its quality policy and plans?**

**Board of Governors -**

**The top management ensures the responsibility of:**

- Implementing the Vision of the organization and its action plans.
- Developing various policies with regards to the Quality in Academics and various curricular and co- curricular activities.
- Continuous interaction with stakeholders viz. parents, students, alumni, Industry for incorporating their inputs into the development of the policies and strategies for improvement in the quality of the teaching-learning process.

- Providing infrastructure and financial support for ensuring quality in academics and overall development of students and staff.

### **Principal-**

#### **The Principal looks after:**

- Day to day implementation of the quality policies and plans pertaining to academics and administration.
- Formation of Quality circles to brainstorm department level activities to find out means for enhancing the teaching learning process.
- Regular periodic review of the systems and processes through student feedback mechanism; interaction with HODs and faculty through meetings; interaction with other stakeholders like parents through Parents Meet, Alumni through Alumni Meets, Industry through Campus recruitment.
- Formation of various committees like Academic Monitoring Committee Industry Institute Interaction committee, Research & Development Committee, Grievances Redressal Committee etc. to ensure smooth flow of activities and initiatives and to develop leadership skills and administrative capabilities of staff.
- Conducting various workshops, seminars and conferences for quality improvement in skills, knowledge, competencies of students and staff at institute and department levels.

### **Faculty-**

#### **The faculty members contribute by:**

- Strict adherence to implementation of institute quality policies and plans.
- They actively participate and contribute to enhancement of the system.
- They participate in quality enhancement workshops/FDP/Seminars/Conferences/Symposiums etc.
- Applying for funds under DST (Young Scientist's Award), AICTE (Faculty Recharge Program), VGST (Young Scientist's Award) and international collaborative research initiatives.
- Effectively utilizing the financial assistance received from various funding agencies by organizing national/international conferences.

### **6.1.3 What is the involvement of the leadership in ensuring the policy statements and action plans for fulfillment of the stated mission**

- Formulation of action plans for all operations and incorporating the same into the institutional strategic plans.
- Interaction with stakeholders
- Reinforcing the culture of excellence.
- Champion organizational change

### **Involvement of the leadership in ensuring the policy statements and action plans for fulfillment of the stated mission:**

The action plan is formulated by Principal, Heads of the Department and Coordinators of various committees viz. Anti Ragging Committee, Academic Monitoring Committee, Cultural Activity Committee, Research Advisory Committee, Grievances Redressal Committee, Industry Institute Interaction Committee, Anti-Sexual Harassment Committee, Alumina Meet Committee, Parents Meet Committee, Staff and Students Associations, Disciplinary Action Committee.

### **Involvement of the leadership in ensuring formulation of action plans for all operations and incorporation of the same into the institutional strategic plan.**

The Institute maintains regular interaction with its stakeholders at all the levels. Board of Governors (BOG) Meetings and Academic Monitoring Committee Meetings are conducted twice in an academic year. Principal conducts regular meetings with HODs, Faculties and Students as per the institutional academic calendar. Parent-Teachers Meeting is conducted time to time to update performance of the students. Alumni Meet is conducted once in a year to maintain the Industry-Institution relationship and involve the alumni in overall development of the institution.

### **Involvement of the leadership in ensuring interaction with stakeholders**

The interaction with stakeholders takes place through following avenues:

- Interaction with parents through parent meets which is conducted once every year department wise.
- Interaction with students through feedback session taking place twice every year at the end of each semester by visiting each and every class and division to identify academic and nonacademic requirements.
- Interactions with alumina during the alumni meet which is organized every year.

- Interaction with faculty through three general meetings conducted at the start, middle and end of every semester by the Principal.

### **Involvement of the leadership in ensuring proper support for policy and planning through consultations with the stakeholders**

Proper support for policy and planning through consultations with the stakeholders is done through:

- Regular meetings of Principal and Head of the Departments who review the feedback of students, parents, industry, employees etc.
- Personality development and soft skill training is provided for better employability and prospects to the students.
- Financial and non-financial support in terms of sponsorship, study leave granted to faculty for pursuing higher education and research endeavors.

### **Involvement of the leadership in ensuring reinforcing of the culture of excellence.**

Reinforcing the culture of excellence through:

- Review of result analysis every semester and taking corrective measures based on like, practice sessions.
- Encouraging staff to take up consultancy activities in their areas of expertise.
- Appreciation for faculty members for paper publication in journals and conferences.
- Financial aid to faculty members to attend conferences and seminars in India and abroad.
- Motivation to students to participate in conferences /symposium/ workshops/seminars/games and sports organized by other institutions/university.

### **Involvement of the leadership in ensuring champion in organizational change:**

To keep in line with the changing times and environment, the institution is making changes in its structure and policies. This will be done by,

- Starting courses to upgrade & update student knowledge like computer programming, soft skills training etc.
- Providing training for faculty through Faculty Development Programs.
- Deputing faculty for attending faculty development programmes/ workshops.
- Introduction of high end audio video aids like digital classrooms.

- MOUs with Industry and Research Organizations like MEDINI, Bangalore, SPHR Solutions Ltd, Mumbai.

### **6.1.4 What are the procedures adopted by the Institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?**

The institute has policy documents like System Manual, Authority delegation is made by incorporating HOD in the administration structure for effective monitoring and evaluation of policies and plans.

The procedures adopted by the institute to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time are:

**System manual-** A manual defining the definite roles, responsibilities and authority delegated to the Principal, Vice-Principal, Head of Department, Class Coordinator, Subject Teacher, Proctor, Laboratory In-charge, Librarian, Chief Warden (Hostels), Student Welfare Officer, Training and Placement officer etc.

**Result analysis-** A document of result in terms of :

- a. Percentage passed, Distinction, First class and Second class with toppers and their respective class coordinator.
- b. Subject wise result with name of subject teacher and percentage result of previous three years.
- c. Proctor- teacher wise result.

**Feedback of students-** It is taken by the respective HOD twice a year at the end of every semester. It has various components like name of subject and teacher, teaching (outstanding, excellent, good, average, poor, worst), teaching approach (followed, not followed), general approach (outstanding, excellent, good, average, poor, worst), percentage syllabus covered problems/ suggestions. Apart from general problems/suggestions pertaining to the department, administrative office, hostel and library and so on.

**Design and implementation of academic calendar-** It is done well in advance at the beginning of the academic year so that the institute level and department level activities can be streamlined.

**Staff and Student Association Meetings-** Frequent student association meetings are conducted during which students express their views, opinions and expectations about the

various activities and the academic quality policies, which are taken upon for discussion and decisions.

The institution has constituted following committees for the monitoring and evaluation of academic and administrative process.

- Academic Monitoring Committee
- Anti Ragging Committee
- Cultural Activity Committee
- Research Advisory Committee
- Grievance Redressal Committee
- Industry Institute Interaction Committee
- Anti-Sexual Harassment Committee
- RECBKIT Alumni Association
- Parents Relation Centre
- Departmental Staff and Students Associations.
- Disciplinary Action Committee.

### **6.1.5 Give details of the academic leadership provided to the faculty by the top management?**

Principal of the college, Dr. Bipin Bhari Lal, M.E. from National Productivity Council, Govt of India, Chennai is having Ph.D. in Civil Engineering and Management. He is a graduate from R.E.C. Kurukshetra, (NIT Kurukshetra) and having 37 years experience in Industry, Consultancy, Academic, TPO in technical education. He has many awards & research funded projects to his credit and participated in technical Conferences/Seminars/Workshops/FDP/STTPs/Symposia.

### **6.1.6 How does the college groom leadership at various levels?**

The institute is grooming leadership at various levels by appointing various posts and committees and assigning them roles and responsibilities, as above, so that they become adept at decision making, planning and implementation viz.

### **HOD system-**

The Institute has the Head of Department system in place. Head of Departments have been appointed to each department. viz, Civil, Engineering, Mechanical Engineering, Electronics

and Communication Engineering, Computer Science and Engineering, Chemical Engineering and AS & H respectively.

### **Staff & Student Associations:**

Staff and students are also groomed to become active participants in the system in the form of:

- Staff and Student Associations will provide the platform to exhibit the hidden talent by organizing programs like Guest lecturers, Inter departmental/colligate-sports, quizes and debate
- Each department has department Association like Civil Engineering Staff & Students Association (CESSA), Mechanical Engineering Students & Staff Association (MESSA), Electronics and Communication Engineering Students & Staff Association (ESSA),
- Computer Science Engineering Students and staff Association (CSSA), Chemical Engineering Students & Staff Association (CHESSA), ISTE and IETE chapters.
- Students are also members of Institute level committees like Anti-Ragging committee, Anti-Sexual Harassment committee, Grievance Redressal Committee where they have a say in the system
- Cultural, sports committees are prominently comprised of students and they are the avenues for students to show their initiative, team building and leadership abilities.

### **Training and Placement Office:**

- The training and Placement officer plays a vital role in the marketability of the students to the Industry. He/she shoulders the responsibility for scouting for prospective employers, inviting and persuading them for campus visit and recruitment, grooming students through training to make them capable and worthy of employment.

### **6.1.7 How does the college delegate authority and provide operational autonomy to the departments / units of the institution and work towards decentralized governance system?**

Decentralization is taken care of by authority delegation through the mechanism. Principal, HODs and related elements are in the system. Board of Governors (BOG) resolutions, system manual, circulars, etc. describe the details in this respect.

The college authority provides operational autonomy to the departments of the institution and is working towards decentralized governance system by implementing the Internal Quality Assurance Cell.

### **HOD system at the Department level:**

The Institute has put in place the HOD system at the department level. The roles, responsibilities and authority delegated has been enumerated in great details in the system manual starting from authority to sanction leaves to staff to amount of expenditure, advance and purchases permissible.

### **Class Coordinator:**

- To each class a faculty is appointed as class coordinator. The roles, responsibilities and authority delegated have been enumerated in great details in the system manual.
- He/she takes care of streamlining of lectures, calling parents of absent students at the end of the day, sending SMS to parents of students remained absent for more than a week, result analysis preparation, review of syllabus coverage and so on.

### **Proctor:**

- Each teacher is allotted a batch of twenty students from the class he/she teaches. Every Friday for thirty minutes the proctor sits with his/her students and conducts discussion with students. If the students have any academic problems he/she is welcome to share it with the proctor. The proctor immediately reacts to the problems and tries to solve them

### **Committees:**

Various committees have been constituted that take care of the effective functioning of the system, which include staff members as members and coordinators. Institution has constituted following committees for the monitoring and evaluation of academic and administrative process.

Sl. No	Committee	Co-ordinator	Designation
01	Academic Monitoring Committee (BPMS)	Prof.S.V.Biradar	HOD, Civil Engg



02	Anti Ragging Committee	Prof.P.N. Divakar	Vice Principal
03	Cultural Activity Committee	Dhiraj Deshpande	Asst.Prof. E&CE
04	Research Advisory Committee	Dr.Sanjay Gowre	Assoc.Prof. E&CE
05	Grievance Redressal Committee	Dr. Ashok kumar koti	SWO & HOD ASH Dept
06	Industry /Institute Interaction Committee	Basawaraj Kawdi	Assoc.Prof. ME Engg.
07	Anti-Sexual Harassment Committee	Smt.Kalpana C.	Assoc.Prof. E&CE
08	Alumni meet committee	Dhiraj Deshpande	Asst.Prof. E&CE
09	Parents Meet committee	HODs of respective Departments	
10	Department Staff & Students Association	Department wise Associations are present	
11	Disciplinary Committee	Prof.P.N.Divakar	Vice-Principal

**6.1.8 Does the college promote a culture of participative management? If 'yes', indicate the levels of participative management.**

**Yes**

Participation of all the stakeholders to achieve vision of the institution is the quality policy of the institution. Stakeholders have been represented at all levels of the organization. Faculty members are participating from top level as BOG Members to department level Committee Coordinators. Parent-Teachers meeting is regularly organized to ask their views for the improvement of the institution. Students are allowed to present their views. All the stakeholders are allowed and welcomed to express their views as and when required. Staff meetings are conducted with the management to take views on developing institution and its activities.

### 6.2 Strategy Development and Deployment

#### 6.2.1 Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?

**Yes**

The institution has a formally stated quality policy. It was developed through brainstorming in various committees and meeting.

#### **Our Quality Policy**

We are committed for academic and overall development of our students. A quality policy exists at BKIT which states that:

- To emerge as a centre of excellence for educating and training undergraduate students in disciplines of engineering and technology without any discrimination on the basis of gender, religion, caste, creed and region.
- To create and develop strong R&D infrastructure to realize the national vision of a developed country.
- To provide training and education to the students and equip them to play a leading role in serving mankind at national as well as at global levels to the best of their capabilities.
- To create congenial environment for teaching, training and learning with a view to develop technically sound, ethically strong and morally elevated human resource.
- Continuously encouraging faculty members to acquire higher qualifications from institutions of international repute, both within the country and abroad.
- Merit base admission policy for students and recruitment/promotional avenues for faculty and staff.
- Ensuring transparency at all levels.

#### 6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

**Yes**

The Institute has a perspective plan for development. The aspects considered for inclusion in the plan are:

- To cater the need of the society by providing a technical workforce capable of contributing to the growth of the nation.

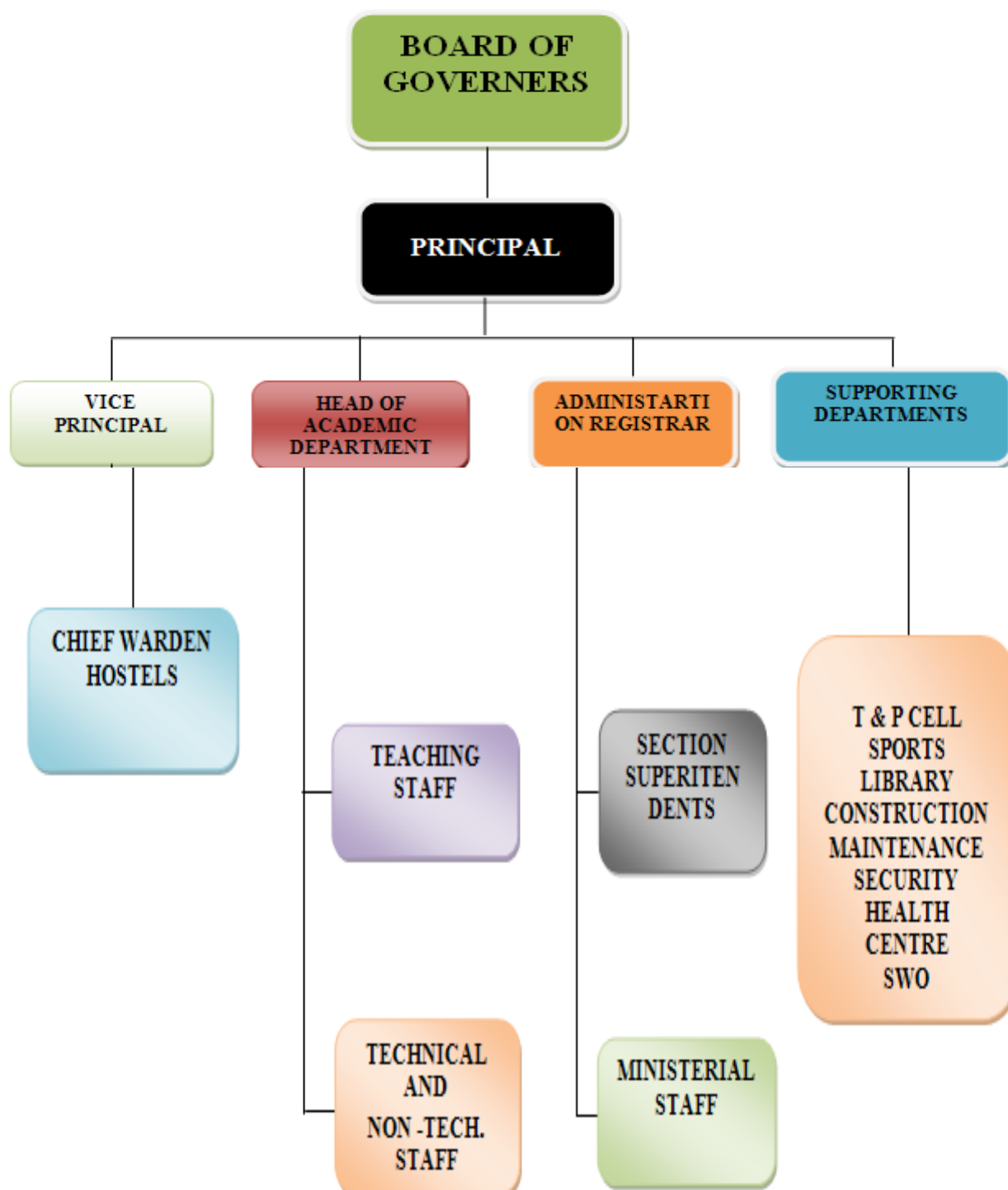
- To achieve excellence in technical education.
- To be recognized as one amongst the best institutions in India.

To develop a culture of research in the Institute and enhance the research aptitude of its faculty and students.

### **6.2.3 Describe the internal organizational structure and decision making processes.**

The internal organizational structure is as depicted in the flow chart below-

- The Institute follows a bottom-up decision making process. Wherein the issues from students faculty are taken up by the Head of Department.
- From here the matters are taken up in the meetings of the Principal, Head of department meetings. Where they are discussed at various levels. Inputs from Parents Industry are also taken up at this level.
- From here matters taken to the Board of governors at the management level. Where the ultimate authority rests in terms of decision making.



**Table No.6.2.3 The Internal Organizational Structure And Decision making Process**

<b>Position</b>	<b>Function/Role</b>
<b>Board of Governors</b>	Apex decision making body at Institute level
<b>PRINCIPAL</b>	<ul style="list-style-type: none"> <li>➤ To arrange meetings of Board of Governors and Academic Monitoring committee.</li> <li>➤ To get the annual budget sanction for the requirements of lab equipments, furniture and for conducting various events in the campus like Workshops/Conference etc.</li> <li>➤ To promote Comprehensive development of the Institute.</li> <li>➤ To recruit the Teaching and Non-teaching Staff based on the requirements of the department and the college.</li> <li>➤ To review salary fixation norms as and when required.</li> <li>➤ To conduct HODs meeting at regular intervals for management of academic and non-academic activities.</li> <li>➤ To plan for training and placement activities through training and placement cell.</li> <li>➤ To review the results and plans to improve for the best.</li> <li>➤ To review administration and management of hostels carried out by hostel authorities/personnel.</li> <li>➤ To take enough precautions so that, the teaching staff cannot leave the services in the middle of the semester.</li> <li>➤ To go around the class rooms to ensure that the class work is being conducted effectively.</li> <li>➤ To conduct the fresher's day, Republic day, Independence day and other functions.</li> <li>➤ Attesting the academic registers and dairies maintained by the teaching staff.</li> <li>➤ To instruct the teaching staff through a schedule to conduct annual stock verification of lab equipments/maintenance etc.</li> <li>➤ To monitor activities of the examination section as a chief-superintendent.</li> <li>➤ To maintain account of the college as per rules.</li> <li>➤ To work in the committees constituted by the Government/University/NGO.</li> <li>➤ To strive for all round development of the college by taking the members of the staff in to full confidence.</li> <li>➤ He has overall responsibility for smooth and efficient functioning of the college.</li> </ul>
<b>VICE PRINCIPAL</b>	<ul style="list-style-type: none"> <li>➤ In the absence of Principal, he should concentrate on the duties of the principal for smooth going of the college.</li> <li>➤ To verify staff and students attendance records, syllabus coverage, teaching discipline etc. in the college.</li> <li>➤ To ensure that the various programs on T&amp;P cell should be conducted effectively and result oriented for overall college development.</li> <li>➤ To be the chief of the disciplinary action committee and solve the students problems in consultation of the disciplinary action committee. He will be incharge of all academic and</li> </ul>

## SELF STUDY REPORT (SSR)

	<p>examination activities of the college and also for the university.</p> <ul style="list-style-type: none"> <li>➤ To ensure that all departments are functioning as per the guidelines of the BPMS.</li> <li>➤ To ensure that the beginning of every academic year, the college must bring out beautiful brochure/handbills, carrying the detailed infrastructural information along with softcopy.</li> <li>➤ To ensure that every care must be taken in sanctioning CL, SPCL, and OD etc. in the absence of principal.</li> <li>➤ To attend/manage the unsolved students' problems that are beyond the HOD's reach.</li> <li>➤ To take care of all the official correspondence with AICTE, VTU, and Govt. etc.</li> <li>➤ He has overall responsibility for smooth and efficient functioning of the college.</li> </ul>
<b>H.O.D</b>	<ul style="list-style-type: none"> <li>➤ HOD through Principal should ensure availability of sufficient staff well in advance before the distribution of the load for the next semester.</li> <li>➤ To assign duties to various staff and faculty in the department.</li> <li>➤ To ensure that before the start of the semester, lab manuals are maintained up-to-date and all the setup in the labs. are in working condition, and should give occasional visits to the laboratory to ensure that the setup are in working condition during the semester also.</li> <li>➤ To conduct department level meeting once a week.</li> <li>➤ To visit each concerned class at least once in a fortnight and do the following :-             <ol style="list-style-type: none"> <li>1. Understanding the problems of the students and taking suggestions.</li> <li>2. To ensure that Guest lectures are arranged every semester.</li> <li>3. To conduct the feedback sessions for the concerned classes.</li> <li>4. To arrange for parent meet at least once in an academic year.</li> <li>5. To ensure for arranging conferences, workshops, STTP, FDP. etc by staffs and students.</li> <li>6. To ensure effective implementation of office orders, notices, circulars etc. coming from higher authorities.</li> <li>7. To ensure that there is contribution from departmental faculty in respect of publishing/ presenting papers in National/ International conferences / journals.</li> <li>8. To ensure up-to-date display boards in respect of faculty, staff position, Role of honor, graphical result analysis.</li> <li>9. To keep on reviewing the coverage of syllabi and ensure that 100% syllabus is covered in related subjects of his/her department.</li> <li>10. To analyze the department result immediately, after declaration of the result by the University and taking corrective steps for the failure students.</li> <li>11. To prepare the budget for consumable and non consumable materials for every academic year.</li> </ol> </li> </ul>

## SELF STUDY REPORT (SSR)

<b>CHIEF WARDEN</b>	<ol style="list-style-type: none"><li>1. To ensure effective involvement of students in the hostel for maintaining discipline and culture in the hostels</li><li>2. To ensure that all kinds of hostel wise record including leave applications be maintained in Hostel Office by the concerned Coordinator. Discrepancies be reported by Coordinator to the warden, who should take the necessary steps.</li><li>3. To ensure that attendance in a separate register at hostel, be taken by Coordinator daily basis.</li><li>4. To ensure that consecutive two or more days absenteeism from hostel without permission be reported to the parents through letter/phone.</li><li>5. To ensure that separate register is maintained for recording the details of outside persons entering in hostel.</li><li>6. To ensure that condition of cots, tables, chairs, windows including glasses, fans, tube lights, etc. be recorded at the time of first entry of the students in the room and also at the time that the room is left by the students. Due steps be taken in case of discrepancy.</li><li>7. To ensure that cleanliness and hygienic conditions are maintained in the Hostels and around.</li><li>8. To ensure that timely payment is made by the students towards Hostel fees/deposit.</li><li>9. To ensure that the quality of food in the mess is at acceptable level.</li><li>10. To ensure that stock register of all the material (furniture, equipments, locks etc.)</li></ol>
<b>TPO</b>	<ol style="list-style-type: none"><li>1. Training &amp; Placement Officer should plan and act as a marketing/ representative person of Institute to industries</li><li>2. To maintain up-to-date data in respect of academic performance of all the students of our college in format(s) required by the industries.</li><li>3. To prepare/obtain/create classified list/ database for industries in different areas.</li><li>4. To ensure that in house training sessions from our faculty be arranged for the students during vacation.</li><li>5. To engage at least one class for students and should introduce the students to current market trend and their expectations from the fresher's, and should motivate them personality-development activities. He should maintain the record accordingly.</li><li>6. To arrange and coordinate the in house training activities for the students as well as staff for the remote and sparse areas of strength, if required, from expert persons in industry/academics.</li><li>7. To arrange (EDP) Entrepreneur Development Programme, with the help of experts/ Govt. bodies, at least once in a year.</li><li>8. To ensure that, in addition to placement, students are motivated for other competitive examinations for higher education such as GATE, GRE, TOFEL, GMAT, CAT etc.</li><li>9. To ensure that ample number of aptitude and technical test papers are made available.</li></ol>

	<ol style="list-style-type: none"> <li>10. To prepare whole list of out-going students every year and keep track of their progressive career. The record should be maintained accordingly.</li> <li>11. To prepare a report indicating number of companies visited the campus, number of students absorbed through campus, number of students absorbed in out of campus, the branch-wise and company-wise number of students placed in every academic year before the start of admission process.</li> </ol>
<b>LIBRARIAN</b>	<ol style="list-style-type: none"> <li>1. Librarian should ensure that library remains open for 9.00 a.m. to 12.00 p.m.</li> <li>2. To ensure that the board giving up-to-date display of 'Library at a Glance' is maintained in the library.</li> <li>3. Librarian should ensure that circulation section (Issue/Receipt) is working from 9.00 a.m. to 5.00 p.m.</li> <li>4. To put the proposal, to process by Library Committee before Principal for further processing.</li> <li>5. To ensure that timely subscription is made for renewal of magazines/ journals.</li> <li>6. To ensure that display of new arrivals in respect of books and journals at a separate place in the library.</li> <li>7. To ensure that systems and reprographics facility are in good working condition.</li> </ol>
<b>SWO</b>	<ol style="list-style-type: none"> <li>1. To advise senior students not indulge in the ragging activities</li> <li>2. To advise the students to maintain high level discipline</li> <li>3. To work as co-ordinator between various department in solving the students genuine problems</li> <li>4. To take care related to scholarships of students by Central Govt, State Govt, Defense, Public and Private Organization, NGOs or Religious and Minorities Trusts.</li> <li>5. To Issue Railway and Air concession, bus Pass.</li> <li>6. To encourage students in participating in Curricular and extra-curricular activities.</li> <li>7. To encourage students for participation in events like youth festivals, sports etc.</li> <li>8. He acts as a bridge between students, staffs and administration for all round development of all the concerned.</li> </ol>

### 6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following

- Teaching & Learning
- Research & Development
- Community engagement
- Human resource management
- Industry interaction.



### **Quality improvement strategies of the institution for Teaching & Learning**

The quality improvement strategies of the institution are:

- BKIT provides an effective teaching and learning process for the diversity of learners in respect of their background.
- The teachers employ interactive and participatory approach creating a feeling of responsibility in learning and makes learning a process of construction of knowledge.
- The institution discrete the evaluation process to all its stakeholders. Institution constitutes an examination section for the conduction of secured and transparent examination.
- Faculty prepares their teaching material which is approved by the expert committee.
- Assignment and Seminars are included as a part of curriculum.
- Industrial visit is arranged where ever required.
- Regular monitoring is conducted on the syllabus coverage and students satisfaction by Internal Quality Assessment Cell.
- Feedback from the students is taken for the regular improvement.
- Final year students have the opportunity to complete their projects at the Research and Development Centre of the institution.
- Examination is conducted as per the Academic Calendar.
- Internal marks are displayed on the department notice board.
- Progress Report is sent to the parents by SMS.

### **Quality improvement strategies of the institution for Research & Development**

Three important initiatives are taken up for improving quality:

- Rigorous and productive review meetings
  - a. Research review meetings that are conducted every year
  - b. Eminent scientists from industry and academia will be invited by research advisory committee meetings
- Recruitment of experts and faculty recharge program
- Internal faculty members will be sponsored for higher education, faculty exchange program and seminars/conferences/workshops to enhance their skills
- Young faculty members will be encouraged for applying for funds under DST (young scientists award), AICTE (Faculty Recharge Program), VGST (Young Scientist Award) and international collaborative research initiatives

- The Institute has signed MOUs with number of research agencies and Industries to foster a climate of research in the organization, initiating staff and students to take up research projects with them and broaden their horizons.
- Numbers of departments in the Institute have acquired a status of research center, further enabling the growth of faculty and staff in the research field.
- The Institute motivates and encourages students and faculty to attend and publish research papers in various workshops, conferences and journals, by providing financial assistance and recognizes.

### **Quality improvement strategies of the institution for Community engagement**

- The Institute has constituted a NSS unit through which various community serving ventures are carried out through camps. Blood donation camps, Free Eye/Dental Check-up camps, Tree plantations, etc.
- Apart from the teaching learning process, Institution has taken an initiative for bringing about environmental and behavioral changes to improve the health of the society. “YOGA Camps “, “Swachh Bharat Andolan” are some of the regular events where institution is paying attention.

### **Quality improvement strategies of the institution for Human resource management**

- Short Term Training Programs are arranged department wise inviting experts from different fields for their sessions.
- Employee Provident Fund benefits are given to the staff. Leaves are sanctioned as per the norms. Staff pursuing higher education is given study leave.
- Faculty members are deputed to attend FDP/Workshop every year.
- Policy regarding recruitment, salary, increments, leaves, settlements of disputes, grievance handling welfare measures are reviewed at regular intervals

### **Quality improvement strategies of the institution for Industry interaction**

- It is enhanced through the Industry Institute Interaction Committee.
- Industry feedback is taken during campus placement activities by the Training and Placement cell.
- Employer feedback is also taken through students placed in various esteemed organizations.
- Industrial visits are organized every semester for students where ever required.
- MOUS have been signed with various industries.

### **6.2.5 How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the institution?**

- Institution has strong mechanism to obtain the feedback from its entire stakeholder. Feedback questionnaires are carefully designed to extract the real information.
- Information is also disseminated through, College website, College publications, like News bulletin, information brochures, emails, newspaper reports etc.
- Regular interaction with parents through telephone and letters about absenteeism, attendance, result of students, start of semester etc.
- Feedback from students, Parents, industry and employers is reviewed and analyzed.
- The Head of the Institute conducts regular meetings with HODs, and faculty members and ensures propagation of Institute policies.
- Industry Institute Interaction Committee of the Institution headed by the professor bridges the gap between Institute and Industry. Speakers are invited from the industry to deliver the lectures on the current topics. Infosys Campus Connect and Wipro Mission10X are the industry initiated program where institution is regularly interacting with the industry.

### **6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?**

- Management has the Faculty Empowerment Policy where all the possible cares have been taken care. Health, Professional development, Promotion, Increment, Award and welfare are the several key issues where management is devoted to its employee.
- Regular meetings are conducted by the Head of the Institute with HODs.
- HODs in turn conduct weekly meetings with their department staff members where syllabus progression, student issues, staff issues are discussed.

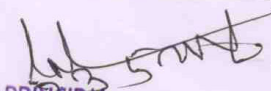
### **6.2.7 Enumerate the resolutions made by the Governing Council in the last four years and the status of implementation of such resolutions.**

Table No. 6.2.7 PROCEEDINGS OF THE BOARD OF GOVERNORS MEETING HELD ON 18<sup>th</sup> NOVEMBER, 2012 AT 09:30 AM

Resolution	Implementation
The minutes of the meeting of BOG held on 13-04-2012 were read by the Principal of the college.	The BOG approved the same.
Approval for change of name of the college Rural Engineering College, Bhalki to Bheemanna Khandre Institute of Technology, Bhalki	The BOG approved for the change of name of the college from Rural Engineering College, Bhalki change to Bheemanna Khandre Institute of Technology, Bhalki, w.e.f. July 2012.
Approval for increase in intake in BE (Mechanical, E&CE and CSE) courses from academic session 2013-14.	<p>In view of our proposal to utilise available infrastructures as well as after reviewing employment scenario and demands in the general society for certain branches of engineering, the BOG approved for increase in intake in the following courses w.e.f. 2013-14 session:</p> <ul style="list-style-type: none"> <li>i. BE in Mechanical Engineering with intake from 120 to 180</li> <li>ii. BE in Electronics &amp; Communication Engineering with intake from 120 to 180</li> <li>iii. BE in Computer Science &amp; Engg. with intake from 120 to 180.</li> </ul> <p>The BOG authorized the Principal to submit the proposal for increase in intake for above courses to appropriate authorities.</p>
Approval for increase in Dearness Allowances from 45% to 72% to the teaching staff on Revised AICTE Pay Scale.	After reviewing financial status of the college, the BOG approved for increase in Dearness Allowances from 45% to 51% w.e.f. 01-01-2013 to the teaching staff on Revised AICTE Pay Scale.
Approval for Interim Relief to the non-teaching staff on Karnataka Govt. Pay Scale.	The BOG approved for implementation of Interim Relief @ 15% w.e.f. 01-01-2013 to the non-teaching staff on Karnataka Govt. Pay

	Scale.
Approval of the appointments made after the meeting of Board of Governors i.e. from 01-04-2012 to 31-10-2012.	The BOG approved the appointments made during 01-04-2012 to 31-10-2012.
Approval for the purchases made after the meeting of Board of Governors i.e. from 01-04-2012 to 31-10-2012.	The BOG approved the purchases made during 01-04-2012 to 31-10-2012.
Academic activities/ performance in the current odd semesters of BE/MCA/MBA/M.Tech.	The BOG reviewed academic activities/ performance in the current odd semesters of BE/MCA/MBA/ M.Tech. and expressed satisfaction.
Review of the action taken on the proceedings of the meeting of Board of Governors held on 13-04-2012.	The BOG reviewed the action taken on the proceedings of the meeting of Board of Governors held on 13-04-2012.

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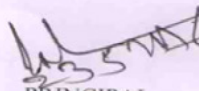
  
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of Technology, BHALKI  
BKIT, BHALKI



**Table No. 6.2.8** MINUTES OF THE MEETING OF BOARD OF GOVERNORS HELD ON 26<sup>th</sup> OCTOBER, 2013 AT 10:30 AM.

Resolution	Implementation
The minutes of the meeting of BOG held on 14-07-2013 were read by the Principal of the college.	The BOG approved the same.
Approval for submission of proposal for new M.Tech. Courses in i. a) Machine Design and b) Thermal Power Engg. under Mechanical, ii. Digital Electronics and Communication under E&CE, iii. Computer Network Engineering under CSE and iv. Chemical Engg. under Chemical Engineering Departments.	After reviewing the available facilities in the college and demands in the society for various M.Tech. courses, the BOG approved for start of the following M.Tech. courses from the academic session 2014-15: <ol style="list-style-type: none"> <li>1. M.Tech. in Machine Design under Mechanical Engg. Dept.</li> <li>2. M.Tech. in Digital Electronics &amp; Communication under Electronics &amp; Communication Engineering Department</li> </ol>
Approval for purchases made during 01-07-2013 to 30-09-2013.	The BOG approved the purchases made during 01-07-2013 to 30-09-2013.
Review of action taken reports as per previous BOG meeting.	The BOG reviewed the report for actions taken as per minutes of meeting of Board of Governors held on 18-11-2012 and 14-07-2013 respectively.  The BOG expressed satisfaction for the steps being adopted by the Heads of the Departments and their staff towards improvement of results.
Review of admission status for various courses during 2013-14 session.	The BOG reviewed admission status of various courses viz. BE, MCA, MBA and M.Tech. courses for the 2013-14 session. They advised the Principal to take appropriate measures as deemed fit in consultation with Heads and staff of departments for better admission with good quality students for sustenance and better development of the college.
Approval for proposal to bring the college under grant-in-aid by Karnataka Govt.	The BOG approved the proposal to bring this college under Karnataka Govt. grant-in-aid scheme at the earliest.

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*Table.No:9* **MINUTES OF THE MEETING OF BOARD OF GOVERNORS HELD ON 17<sup>th</sup>  
AUGUST 2014 AT 10:30 AM.**

Resolutions	Implementation
The minutes of the meeting of BOG held on 08-03-2014 were read by the Principal of the College	The BOG approved the minutes of the last meeting of Board of Governors held on 08-03-2014.
Approval of the revised Budget for financial year 2014-15.	After reviewing the proposed budget for 2014-15 the BOG approved the same with suggestion that the next proposed budget for 2015-16, should be considered for approval in the month of February 2015 itself taking care of amount spent till January 2015, amount to be spent till March 2015, addition or deletion of some of the heads of expenditure as per requirement of the College.
Review of action taken reports as per previous BOG Meeting.	The action taken report as per minutes of the BOG meeting held on 08-03-2014 was discussed by the BOG members in detail and the Principal of the college was directed to implement the same as per decision taken and opinion expressed by the members.
Review of purchases made during 01-04-2014 to 31-07-2014.	Approved the purchases made during 01-04-2014 to 31-07-2014.
Approval for submission of proposal for starting New M.Tech. Courses.	The college can submit the proposal for starting maximum two courses at M.Tech. level in a year, the BOG approved the proposal to be sent by the Principal to AICTE and Visvesvaraya Technological University, Belgaum to start new M.Tech. courses 1. M.Tech. in Digital Electronics & Communication under Electronics & Communication Engineering Department and 2. M.Tech. in Computer Network Engineering under Computer Science & Engg. Dept. from the academic session 2015-16.
Approval for submission of proposal for establishing Research Centre in Mathematics.	The BOG gave approval to submit the proposal to Visvesvaraya Technological University, Belgaum for establishing Research Centre in Mathematics as per request of Principal and Head of Applied Science & Humanities Dept. from the academic session 2015-16.
Measures for filling up intake of various courses.	The admission status for 1 <sup>st</sup> year of various courses was reviewed by the BOG. Considering less admission in various

courses at BE and PG level, the BOG members advised the Principal to direct all the Heads of the Departments for taking more and more interest in admission process involving teaching and non-teaching staff and formulate new strategies and taking various measures to improve images of departments and the college as a whole to have better image and perception in the minds of prospective candidates and their parents. They also advised to improve teaching learning process, academic results, good training & placement activities, stressing for more than 90% attendance by students in each subject in each class at all the time as well as to have better industry-institute interaction etc. so as to survive and sustain in the competitive world such that prospective candidates choose our institute as the first option/priority.

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**Table No. 6.2.10** MINUTES OF THE MEETING OF BOARD OF GOVERNORS HELD ON 19<sup>TH</sup> DECEMBER 2015 AT 10:30 AM.

Resolution	Implementation
The minutes of the meeting of BOG held on 28-03-2015 were presented by the Principal of the College.	The BOG approved the same.
Review of action taken reports as per previous BOG Meeting.	As per the resolutions of the BOG, the suggestion box had been kept for the college employees in April 2015. Later on the suggestion box was opened in the presence of BOG Chairman and Heads of the Departments. The suggestions received were handed over to the BOG Chairman for implementation wherever necessary.
Approval for purchase made during 01-02-2015 to 31-03-2015 and 01-04-2015 to 30-11-2015.	The list of purchases made during 01-02-2015 to 31-03-2015 and 01-04-2015 to 30-11-2015 as enclosed at annexure-2 were put up before the BOG and the same was ratified.
Starting term of Heads of Departments under rotation system with effect from starting of the semester.	The BOG approved for the same.
Review of results of even semester's examinations held in May-July 2015 for BE, M.Tech. and MCA courses.	Results of even semesters examinations held in May-July 2015 for BE, M.Tech. And MCA courses as enclosed at Annexure – 3 were reviewed by the BOG. They directed Heads of Departments to take appropriate measures as deemed fit to improve the result.
Any other matter with the permission of the Chair.	The BOG desired to have presentation by Heads of the Departments for department profile, contribution and future road map for further development of the departments in subsequent meetings.

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**6.2.8 Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If 'yes', what are the efforts made by the institution in obtaining autonomy**

**Yes**

The affiliating university has a provision to accord status of autonomy to an affiliated institution. The efforts made by the institution in obtaining autonomy are as follows:

- The Institute has undergone the National Board of Accreditation process in 2009 and received accreditation for three of its courses viz. Mechanical Engineering, Electronics and communication Engineering and Chemical engineering for a period of three years.
- The Institute has applied for permanent affiliation to VTU Belgaum for Mechanical Engineering, Electronics and communication Engineering and Computer Science Engineering, Chemical Engineering and Civil Engineering.
- The Institution has been awarded research centre status for Mathematics, Physics, Chemistry and Electronics and communication Engineering.

**6.2.9 How does the Institution ensure that grievances / complaints are promptly attended and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder relationship?**

**6.2.9.1 Grievance Redressal committee.**

Sl. No.	Name and Address	Designation	Status
01	Dr. Ashok kumar koti AS&H Dept., BKIT Bhalki-585328 Cell: 9448461738	SWO & HOD AS&H Dept	Chairman
02	Dr. Nagshettappa Biradar Triveni Buliding, Shastri Nagar, Mailoor Rd, Bidar- 585401, Cell: 9448505353	E & CE Dept	Member
03	Prof. Rajkumar Patil CSE Dept, BKIT Bhalki-585328 Cell: 9916607575	CSE Dept	Member
04	Prof. Ashok.G ME Dept, BKIT Bhalki-585328 Cell: 9448024213	ME Dept.	Member
04	Prof. B.S. Patil, 5-9-142/3A, Bhatnagar, Bhalki-585328, Dist: Bidar (Karnataka State),Cell: 9481300244	Chemical Engg. Dept	Member
05	Shri Vijaykumar Baradapure, Admission Section, BKIT Bhalki-585328 Cell: 9448459916	Adm. Section Supt	Member
06	Dr. Geetanjali Alle, C% Sharanappa Alle Opp: Police Quarters, Gunj Bhalki: Pin- 585328 Dist: Bidar Cell: 9448845540	AS&H	Member

**Table No. 6.2.9.2 Anti Sexual Harassment Committee.**

Sl. No	Name	Designation	Status
01	Dr. B.B.Lal	Principal	Chairman
02	Shri. Gangadhar M.	Legal Advisor	Member
03	Smt. Kalpana Chikatwar	Faculty E&CE Dept.	Member secretary
04	Shri Somanth Mulge	Registrar	Member
05	Dr.Veena Kumari	Representative of Voluntary Organization, AMMMV, Bidar	Member
06	Dr. Vazra Hireguoder	Faculty Psychology AMMMV, Bidar	Member
07	Smt.Geetanjali Alle	Faculty AS&H Dept.	Member
08	Smt.Geeta Patil	Faculty CSE Dept.	Member
09	Shri. A.Pandurang	Faculty Civil Dept.	Member
10	Ankita S.	Student	Member
11	Prashant Kaknale	Student	Member

**6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on these?**

There have been no instances of court cases filled by and against institute in the last four years

**6.2.11 Does the Institution have a mechanism for analyzing student feedback on institutional performance? If 'yes', what was the outcome and response of the institution to such an effort?**

- The Institution has a well developed and documented student feedback system in which the Head of the Institution visits all the classes every semester to record academic and extra- curricular feedback of the students pertaining to syllabus, teaching, staff, hostels, mess etc.
- The recorded points are then discussed with the faculty members by the Head of the Institution through a meeting with respective departments. All the findings and problems are discussed and remedial measures taken and implemented immediately.
- All the recorded information along with remedial measures is sent to all stakeholders to view and monitor.

### **6.3 Faculty Empowerment Strategies**

**6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching and non teaching staff?**

- Regular Faculty development programs on various subjects spanning from research to soft skills are conducted in the college.
- The College regularly conducts seminars and conferences at the state /national / international level. At these seminars and conferences, the faculty gets an opportunity to interact with experts from different fields.
- The Institute recognizes and facilitates faculty members who attends conferences and workshops both in the country and abroad. Faculty members are encouraged to attend seminar and conferences.
- The Institute recognizes and facilitates faculty members who publish their research papers in journals of repute.

- The Institute recognizes and facilitates faculty members who upgrade their qualifications to M.Tech, PhD etc. Thus, faculty members are encouraged to upgrade and pursue higher education.
- MOUs have been signed with prestigious research organizations like IIT-Roorkee, IIT-Hyderabad, AVV- Kerala, MGSSK Ltd, Bhalki and so on, which provides faculty members with an opportunity to work with them.
- Experts from the industry and academia are called to address the students & faculty and staff members.
- The Institute also encourages and facilitates faculty member to become members of various professional bodies like Indian Society for Technical Education (ISTE), Institute of Electrical and Electronics Engineers(IEEE),IEI, etc.

### **6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?**

- The Faculty Development initiatives to be taken in the institute and coordinates the Faculty development programs.
- Staff members also work as members and coordinators of various committees. Once a staff member is made in charge of a committee, complete freedom is given to him/her to plan and execute programs. Reasonable financial freedom is also given.
- Progress made on the planned programs is periodically reviewed by the Principal through interaction with faculty.

### **6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.**

- Student feedback is taken during end of each semester, with a component designed to assess the staff members and content delivery.
- HODs also assess the staff members.
- Self appraisal system is followed in the Institute as per BPAS, which contains various components for appraisal of the staff Viz :

## BHEEMANNA KHANDRE INSTITUTE OF TECHNOLOGY, BHALKI BKIT PERFORMANCE APPRAISAL SYSTEM (RPAS) w.e.f. 13-11-2015

(Every faculty has to score minimum passing marks individually in category I, II & III or else Category I, II & IV)

	Due on 1 <sup>st</sup> July	Due on 1 <sup>st</sup> January
Academic	Even sem – Jan to June (Current) Odd sem – July to Dec (Old)	Odd sem – July to December (Current) Even sem – January to June (old)
Result	Even sem – Jan to June (Old) Odd sem – July to Dec (Old)	Even sem – January to June (old) Odd sem – July to December (old)
Assessment Period	June - May	January – December

This RPAS has to be filled in by the concerned staff, Head of the Department and Principal in true perspective. The staff must furnish proof for scoring marks.

Name of the staff: \_\_\_\_\_ Designation: \_\_\_\_\_ Dept. \_\_\_\_\_

### Category – I: Teaching, Learning and Evaluation related activities

Sl. No	Marks	Particulars	Basis for Marks			Marks as per staff	Marks as per HOD	Marks as per Principal/Remarks
1	Max.28 Min.20	No of subjects taken = S Sub-1 _____ Sub-2 _____ Sub-3 _____ Sub-4 _____ Sub-5 _____ Sub-6 _____	50-60 periods Marks = 28 No. of Sub, S1 = Marks scored (28/S) S1 =	40-50 periods Marks = 24 No. of Sub, S2 = Marks scored (24/S) S2 =	<40 periods No. of Sub, S3 = Marks scored = Nil			
2	Max.26 Min.22	Syllabus covered (100% to be covered)	90-100% syllabus covered Marks = 26 No. of Sub, S4 = Marks scored (26/S) S4 =	80-90% syllabus covered Marks = 24 No. of Sub, S5 = Marks scored (24/S) S5 =	<80% syllabus covered No. of Sub, S6 = Marks scored = Nil			
3	06	Tutorial classes engaged (Min. 10 per subject) Note: Extra / Interactive classes are treated as tutorial classes for clarifying doubts/problems	Tutorial classes ≥10 No. of Sub, S7 = Marks scored (06/S) S7 =	Tutorial classes <10 No. of Sub, S8 = Marks scored = Nil				
4	15	Question paper solved in the class (last 03 year VTU / Model question paper) (Proof to be attached )	≥ 3 yrs. VTU/MP QP solved No. of Sub, S9 = Marks scored (15/S) S9 =	< 3 yrs. VTU/MP QP solved No. of Sub, S10 = Marks scored = Nil				
5	08	Subject wise PowerPoint presentation in class min. 5 classes in each subject (Proof to be attached )	No. of power points subjects, S11 = Marks scored (08/S) S11 =					

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# SELF STUDY REPORT (SSR)

6	10	Given lecture not related to subject in the dept./ Institution. (eg. Commn. skills, career guidance, placements etc.,)	≥ 03 lecturers Marks scored =	< 03 lectures Marks scored = Nil				
7	05	Given power point presentation in the department/ Institution a. Not related to subject (R&D, papers etc.,) b. To be given once in a semester	≥ 2 Power Point presentation Marks scored =	< 2 Power Point presentation Marks scored = Nil				
8	05	Conducted seminar/ workshop exclusively for students, to be conducted at least once in a year	Conducted at least one Marks scored =	Not conducted Marks scored = Nil				
9	05	Covered minimum 2 topics beyond the prescribed VTU syllabus? (Give proof)	≥ 2 topics Marks scored =	< 2 topics Marks scored = Nil				
10	06 08	Worked as Invigilator Chief/ Deputy Chief superintendent of VTU exams	≥ 7 days Marks scored =	< 7 days Marks scored = Nil				Proof to be submitted
11	a. 10 b. (-10) c. 00	a) Taking own handwritten notes to the class room? b) Dictating notes in the Class room c) Taking Books to the class room?	Marks scored = Marks scored = Marks scored = Nil					
12	08	Discussed the results/ performance of I/II/III Tests in the class with students?	If discussed marks scored =	If not discussed Marks scored = Nil				
13	08	Providing additional resources like PPTs/Video Lectures in all subjects to students. (Students may copy in their pen drives)	If provided, S14 Marks scored = 08/S*S14	If not provided Marks scored = Nil				
14	05 **	Projects guided (proof should be attached)	If guided Marks scored =	If not guided Marks scored = Nil				
15	05 **	Seminars guided	If guided Marks scored =	If not guided Marks scored = Nil				

\*\* = Not applicable to AS&H faculty, maximum total marks 152/142 (AS&H faculty)

Note: Total Minimum Points to be scored: 120/115 (for AS&H faculty)

Signature of staff

Signature of HOD

Signature of Principal

13/1/2025

Category-II: Co-Curricular, Extension and Professional Development related activities

Sl. No	Particulars	Marks	Marks as per staff	Marks as per HOD	Marks as per Principal/ Remarks
1.	Student related Co-Curricular activities participation like: (at least – 2) a. NSS b. Student counseling c. Local guardian d. ISTE e. Student/Staff Association f. Guided student to present a paper in conference or project exhibition. (Proof to be submitted)	10	Marks scored =		
2.	A. Contribution to the department (other than academic) through : (at least – 1) a. Taking lead for Motivating students in participation of departmental competitions/class coordinator b. Setting the timetables (regular & Tests) c. Additional responsibilities given by Head etc., B. Contribution to the institution (other than academic) (at least – 1) a. Voluntarily accepting any responsibility given by the Principal/Management b. Admission campaign c. Administrative committees d. Additional responsibilities	05     05	Marks scored =		
3.	Professional Development activities: (at least – 1) a. Membership of various professional bodies, at least 2 of (ISTE/IEEE/IETE/CSI/AME/AIMA/ Institution of Engineers etc.) b. Held any Higher post in professional bodies	10	Marks scored =		
4.	Organization of sports/games/quiz/technical events a. Inter departmental/college b. Inter collegiate level c. Zonal level d. University level } (at least - 2 items)	10	Marks scored =		
5.	Contribution to the Society by organizing (at least-2 items) a. Blood donation camp. b. Contributions to Flood relief funds. c. Contributions to earthquake relief funds. d. Blood Donation. e. Any Social work. (proof to be submitted)	10	Marks scored =		
6.	Position held in various bodies at university level a. BOE (Board of Examination) b. BOS (Board of Studies) c. Senate/Academic council/Executive council d. Seminar/Project Coordinator- one person per dept.	10	Marks scored=		
7.	Position held in various bodies at college/ Society level a. Vice Principal b. HOD c. Construction In-charge d. Member BOG e. EMS Coordinator/TPO/SWO/CEO (REC CCS/ Warden/NSSO)	10	Marks scored=		

Note: Total maximum marks = 70

Note: Total maximum marks = 70

Total Minimum Points to be scored: 40

Signature of Staff

Signature of HOD

Signature of Principal

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## Category-III: Research and Academic Contributions (January to December / July to June)

Sl. No	Particulars	Marks	Marks as per staff	Marks as per HOD	Marks as per Principal/Remarks
<b>A. Research Papers Published</b>					
1.	Published paper in International printed Journal with ISSN/ISBN. Journal should have at least 5 earlier volumes published	20 (Min. 1 paper) (with proof)			
2.	Published paper in National printed Journal with ISSN/ISBN.	15 (Min. 1 paper)			
3.	International Conference Proceedings with ISBN (full length paper)	08 (Min. 1 paper)			
4.	National Conference Proceedings with ISBN (full length paper)	05 (Min. 1 paper)			
5.	Any faculty who has published more than 50 papers in journal/conference.	05			
<b>B. Research publications (Books, Chapters in books, Other than refereed journal articles)</b>					
6.	Text or Reference books published by International publishers with an established peer review system.	40 (Min 1 book) If submitted for review, 10 Marks			
7.	Subject books by National level publishers/ State and Central Govt. publications with ISSN/ ISBN no.	20 (Min 1 book) If submitted for review 10 Marks			
<b>C. R &amp; D Projects/ Consultancy Projects/KSCST projects etc.</b>					
8.	Submission of minimum 1 project amount mobilized up to a. ₹ 25000/- b. ₹ 25000/- to 500000/- c. Above ₹ 500000/-	10 20 30			
9.	Projects amount mobilized with grants above 5.0 Lakhs. (during valid period)	30 (Min 1 project)			
10.	Minor projects amount mobilized with grants above ₹ 25000 up to ₹ 5 Lakhs	20 (Min 1 project)			
11.	Consultancy Projects amount mobilized with minimum of ₹ 10 lakhs.	10 (Min 1 project)			
12.	Projects Outcome/ outputs: Patents/ Technology transfer	30 (Min 1 project)			
<b>D. Ph.D.</b>					
13.	Guiding Ph.D. Scholars (proof must be provided)	25 (Min 2 scholars)			Max. for 5 yrs duration for the same scholars
<b>E. Training Courses and Conference/Seminar / Workshop, etc.</b>					
14.	Attended Seminar/Conference (of minimum two days duration)	05 (min 1 workshop)			
15.	Attended Workshop/FDP (of minimum three days duration)	08 (min 1 training)			
16.	Attended Short term training / Refresher course / Orientation Programs/ ISTE Winter school or Summer school (of minimum ten days duration)	15 (min 1 program)			
17.	Key note address during International/ National Conference ((of minimum two days duration)	20 (min 1 key note address)			
18.	Working as Resource person in seminar/ Conference/Workshop/FDP at college or department.	13			
19.	Worked as Chairman of the session in International/ National Conference	15			

20.	Worked as Co-Chairman of the session in International/ National Conference	10			
21.	Paper Reviewed for International/ National Conference	10			
22.	Editor/Co-editor in International / National printed Journal	10			Should have published 5 earlier volumes.
23.	Reviewer in International / National printed Journal/Member of Editorial Committee	10			Should have published 5 earlier volumes.
24.	Involved in Organizing International/ National Conference as : Organizing Secretary -40, Convener(HOD)-10, Chairman of various committee - 05 Member of various committee - 02				All marks for each conference of minimum two days duration
25.	Involved in Organizing National Level Workshop/FDP as: Organizing Secretary- 20 Convener(HOD)-05, Chairman of various committee – 05 , Member of various committee – 02				All marks for each workshop of minimum three days duration
26.	a. Registered for Ph.D.	05			Only once
	b. Ph.D. in progress Note: Progress in Ph.D. means 1. Course work completed 2. Proceedings of Doctoral committee to be submitted.	10			Ph.D. marks to be claimed for five years only from date of registration.
	c. Ph.D. awarded	25			Once

Note: Total Minimum Points to be scored = 90  
Total maximum points 456 or more

## Guidelines for filling up category – IV

- One has to get minimum result of 75% in each subject taught.
- Neutralization in each subject is done as shown below for all BE/M.Tech./MCA Courses,  
 $1^{st}$  year  $(\text{Result \%} - 75\%) \times 4 \text{ weight}$   
 $2^{nd}$  year  $(\text{Result \%} - 75\%) \times 3 \text{ weight}$   
 $3^{rd}$  year  $(\text{Result \%} - 75\%) \times 2 \text{ weight}$   
 $4^{th}$  year BE/ $3^{rd}$  Year MCA/  $(\text{Result \%} - 75\%) \times 1.5 \text{ weight}$   
M.Tech. all sem.  $(\text{Result \%} - 75\%) \times 1.5 \text{ weight}$
- Each individual faculty is required to score overall minimum 70 points after neutralization as grand total in Category -IV

### Example : 1. Staff A

Subject name	Semester	Result	Neutralization	Points
Sub 1	VII	90%	$15 \times 1.5$	22.5
Sub 2	VII	95%	$20 \times 1.5$	30
Sub 3	VIII	92%	$17 \times 1.5$	25.5
Total				77.5

### Example : 2. Staff B

Subject name	Semester	Result	Neutralization	Points
Sub 1	I	82%	$7 \times 4$	28
Sub 2	I	75%	$0 \times 4$	00
Sub 3	II	90%	$15 \times 4$	60
Sub 4	II	60%	$0 \times 4$	00
Total				88

# SELF STUDY REPORT (SSR)

## CATEGORY - IV

### Performance for result Analysis

Sl. No.	July exam	Even sem.	Sub. Code	Subject name	Subject result %	Result % -75	Points after neutralization (A)	Evaluation by HOD	Evaluation by Principal	Remarks
1										
2										
3										
Total										

Sl. No.	Jan exam	Odd sem.	Sub. Code	Subject name	Subject result %	Result % -75	Points after neutralization (B)	Evaluation by HOD	Evaluation by Principal	Remarks
1										
2										
3										
Grand Total (A+B)										

Category	Minimum marks	Scored marks	Total scored marks
I	130/125 (AS&H)		
II	40		
III	90		
IV	70		

NOTE: A faculty having less than one year of experience has to score minimum of 50 marks in Category- III

Recommendation by the Principal:

Decision of the Hon'ble Chairman:

Signature of staff

Signature of HOD

Signature of Principal

### **6.3.4 What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How are they communicated to the appropriate stakeholders?**

- The major outcome of the performance appraisal report is used as a basis for increments and promotion to the deserving candidates.
- In some cases it is also useful in giving out monetary benefits to the faculty. It is communicated to the staff through their increment order and promotion order.

### **6.3.5 What are the welfare schemes available for teaching and non teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?**

The following are service benefits and welfare measures extended to the employees by the college.

- Maternity leave to the women employees.
- Group Insurance
- Employees Provident Fund (EPF).
- Group Superannuation Scheme(GSS)
- Vacation Leave
- Nominal Transportation Charges.
- Health centre is existing in the campus
- Sponsorship for higher education.
- Canteen in the campus provides food on concessional rates.

### **6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?**

- The Institute sponsors candidates for pursuing higher education and grants study leave, duty leave wherever applicable.
- The Institute provides financial assistance for attending seminars conferences, workshops in India and abroad.
- The Institute provides a platform for research endeavors of its faculty through its MOUs with prominent research organizations like IIT, Roorkee, IIIT, Hyderabad, Amrita University Kerala, BLDE University, Bijapur.
- The Institute provides pay scales as per AICTE rules and security of service to the faculty who have desired qualifications, knowledge and skills.
- Additional increment is also given to a candidate with good skills and additional qualification.



### **6.4 Financial Management and Resource Mobilization**

#### **6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?**

Planning and Budgetary Control are effectively monitored in the institution. Institute prepares the budget in accordance with the budget submitted by the departments. Budget is presented before the BOG for approved. A transparent procedure is adopted by the account section of institution where each credit and debit is recorded.

#### **6.4.2 What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.**

The accounts of the Institute are audited regularly as per the Government rules.

- An internal auditor audits and ensures that all payments are duly authorized.
- The external auditor conducts statutory audit at the end of financial year. After the audit, the report is sent to the management for review.
- The last audit was done on 31.03.2015.
- There have been no audit objections in the last four years.
- Audit for the year 2015-16 is in process.

#### **6.4.3 What are the major sources of institutional receipts/funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/corpus available with Institutions, if any.**

- The institute being a private un-aided and not getting any financial aid/grant from the state or central government has only Fee collection is the major source of revenue/income generation for the college.
- In addition to tuition fee, the institution is also collecting fee towards hostel and transport.
- College closely monitors the expenditure so that the excess cash other than cash for urgent requirement will be kept as short term deposits to increase the fund flow.
- The deficit if any is managed through loans from banks.

# SELF STUDY REPORT (SSR)

## Audited income and expenditure statement of academic and administrative activities of the previous four years

Shanti Vardhak Education Society ( Regd.)  
**RURAL ENGINEERING COLLEGE**  
BHALKI, DIST : BIDAR ( KARNATAKA STATE )  
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2012

Prev Year End 31st March 11	Expenditure	SCH. No.	AMOUNT Rs. Ps.	Prev Year End 31st March 11	Income	SCH. No.	AMOUNT Rs. Ps.
55,246,744.00	To Recurring Expenditure	2	73,292,832.00	115,045,080.00	By Fees collection	11	118,894,905.51
190,297.00	" Transport expenses	3	227,660.00	4,846,714.52	" Other receipts	12	5,146,395.72
50,039.00	" Library expenses	4	1,221,398.00		" Other Misc receipts	-	20,118.00
1,382,728.00	" Power supply expenses	5	3,382,866.00				
7,818,716.44	" communication expenses	6	5,192,682.27				
1,184,113.00	" Department Operational (CA)	7	769,047.00				
3,712,660.00	" Statutory payments	8	2,611,510.00				
18,004,199.00	" Other expenditure	9	22,468,811.00				
	" Other Payments		5,955,456.00				
5,362,615.40	" Depreciation		4,935,433.63				
93,952,171.84			120,075,676.90	119,891,794.52			124,161,419.23
25,539,622.68	" Excess of Income over Expenditure transferred to Society Account		4,085,742.33				
119,891,794.52			124,161,419.23	119,891,794.52			124,161,419.23

Place: Bhalki

Date : 21 / May / 2012

Subject to our Audit Report of even date

for, C M MAHADEV  
Chartered Accountants



**PRINCIPAL**  
Bheemanna Khandre Institute  
of Technology, BHALKI

Shanti Vaidhak Education Society ( Regd.)  
**BHEEMANNA KHANDRE INSTITUTE OF TECHNOLOGY - BHALKI**  
 BHALKI, DIST : BIDAR ( KARNATAKA STATE )

**INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2013**

Prev Year End 31st March 12	Expenditure	SCH. No.	AMOUNT Rs. Ps.	Prev Year End 31st March 12	Income	SCH. No.	AMOUNT Rs. Ps.
73,292,832.00	To Recurring Expenditure	2	74,743,004.29	118,994,905.51	By Fees collection	11	111,313,529.00
227,660.00	" Transport expenses	3	322,913.00	5,146,395.72	" Other receipts	12	3,730,111.47
1,221,399.00	" Library expenses	4	20,789.00	20,118.00	" Other Misc receipts	-	-
3,382,866.00	" Power supply expenses	5	1,624,598.00				
5,192,862.27	" communication expenses	6	5,018,001.44				
769,047.00	" Department Operational (CA)	7	528,586.00				
2,611,510.00	" Statutory payments	8	2,695,320.00				
22,486,811.00	" Other expenditure	9	7,465,375.00				
5,955,456.00	" Other Payments	-	11,291,569.00				
4,935,433.63	" Depreciation		4,334,609.35				
120,075,676.90			108,044,765.08	124,161,419.23			115,043,640.47
4,085,742.33	" Excess of Income over Expenditure transferred to Society Account		6,998,875.39				
124,161,419.23			115,043,640.47	124,161,419.23			115,043,640.47

Place: Bhalki  
Date : 30.04.2013

Subject to our Audit Report of even date  
for, C M MAHADEV  
Chartered Accountants



C M MAHADEV  
Proprietor

**PRINCIPAL**  
Bheemanna Khandre Institute  
of Technology, BHALKI

Shanti Vardhak Education Society ( Regd )  
**BHEEMANNA KHANDRE INSTITUTE OF TECHNOLOGY - BHALKI**  
 BHALKI, DIST : BIDAR ( KARNATAKA STATE )

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2014

Prev Year End 31st March 13	Expenditure	SCH. No.	AMOUNT Rs. Ps.	Prev Year End 31st March 13	Income	SCH. No.	AMOUNT Rs. Ps.
74,743,004.29	To Recurring Expenditure	2	76,749,770.00	111,313,529.00	By Fees collection	11	128,076,879.00
322,913.00	" Transport expenses	3	344,751.00	3,730,111.47	" Other receipts	12	3,064,294.46
20,789.00	" Library expenses	4	38,661.00				
1,624,598.00	" Power supply expenses	5	1,385,089.00				
5,018,001.44	" communication expenses	6	4,499,551.34				
528,586.00	" Department Operational (CA)	7	1,249,602.00				
2,695,320.00	" Statutory payments	8	3,874,168.00				
7,465,375.00	" Other expenditure	9	6,949,678.00				
11,291,569.00	" Other Payments	-	7,331,252.00				
4,334,609.35	" Depreciation		4,708,406.62				
108,044,765.08			107,130,968.96	115,043,640.47			131,140,173.46
6,998,875.39	" Excess of Income over Expenditure transferred to Society Account		24,009,204.50				
115,043,640.47			131,140,173.46	115,043,640.47			131,140,173.46

Place: Bhalki  
Date : 28.04.2014

Subject to our Audit Report of even date

for, C.M. MAHADEV  
Chartered Accountants



*[Signature]*  
Principal  
Bheemanna Khandre Institute  
of Technology, BHALKI

C.M. MAHADEV  
Proprietor

**C.M. MAHADEV**  
CHARTERED ACCOUNTANT  
M. No. 219106



Shanti Varadnak Educational Society (Regd.)

**BHEEMANNA KHANDRE INSTITUTE OF TECHNOLOGY - BHALKI**  
BHALKI, DIST : BIDAR ( KARNATAKA STATE )

**INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2015**

Prev Year End 31st March 14	Expenditure	SCH. No.	AMOUNT Rs. Ps.	Prev Year End 31st March 14	Income	SCH. No.	AMOUNT Rs. Ps.
76,749,770.00	To Recurring Expenditure	2	81,955,683.00	128,075,879.00	By Fees collection	11	150,643,305.00
344,791.00	" Transport expenses	3	326,270.00	3,064,294.46	" Other receipts	12	4,947,628.00
38,661.00	" Library expenses	4	16,435.00				
1,385,089.00	" Power supply expenses	5	1,695,413.00				
4,499,551.34	" communication expenses	6	3,454,465.00				
1,249,602.00	" Department Operational (CA)	7	1,653,751.00				
3,874,168.00	" Statutory payments	8	4,709,827.00				
6,949,678.00	" Other expenditure	9	7,112,489.00				
7,331,252.00	" Other Payments	-	4,134,973.06				
4,708,406.62	" Depreciation		5,534,130.66				
107,130,968.96			110,593,436.72	131,140,173.46			155,590,933.00
24,009,204.50	" Excess of Income over Expenditure transferred to Society Account		44,997,496.28				
131,140,173.46			155,590,933.00	131,140,173.46			155,590,933.00

Place: Bhalki  
Date : 30.04.2015

Subject to our Audit Report of even date

for, C M MAHADEV  
Chartered Accountants



*[Signature]*  
**PRINCIPAL**  
Bheemanna Khandre Institute  
of Technology, BHALKI

*[Signature]*  
C M MAHADEV  
Proprietor

### **6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).**

- Faculty members are encouraged and motivated to submit proposal to AICTE VGST/DST/DBT /KSCST, Bangalore, etc.
- Faculty members regularly submitted proposal of organizing the FDP/ Seminar to ISTE/IEI/IETE/AICTE. College received financial assistance from AICTE for organizing national/ international conference and successfully conducted these seminars in college.

## **6.5 Internal Quality Assurance System (IQAS)**

### **6.5.1 Internal Quality Assurance Cell (IQAC)**

#### **a. Has the institution established an Internal Quality Assurance Cell (IQAC)?**

**If ‘yes’, what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes? The formation of Internal Quality Assurance Cell (IQAC) formation is in the process.**

**Yes**

Internal Quality Assurance Cell (IQAC) is constituted in the institute, now onwards all the decisions will be taken through IQAC.

# SELF STUDY REPORT (SSR)

SVE Society's  
**Bheemanna Khandre Institute of Technology, Bhalki**

BKIT/NAAC/2016-17/54

Date: 12-04-2016.

## OFFICE ORDER

The Internal Quality Assurance Cell (IQAC) and National Assessment and Accreditation Council (NAAC) Steering Committee of BKIT, Bhalki are constituted as under, with effect from 15-02-2016.

### Internal Quality Assurance Cell (IQAC):

Sl. No		Name	Details
1	Chair person	Dr. Bipin Bihari Lal	Principal, BKIT, Bhalki
2	Management	Er. Eshwar Khandre Shree Keshavrao Nitturkar	Chairman, SVE Society, Bhalki Vice-President, SVE Society, Bhalki
3	Teachers	Shree Anil Kumar Patil	Mech. Engg. Coordinator
		Dr. Nagashettappa Biradar	E & CE Member
		Shree Shivakumar Anadur	CS & E Member
		Dr. Sanjay Kumar Gowre	E & CE Member
		Shree M.A.Devani	Chemical Engg. Member
		Dr. Jagdish Tawade	AS & H Member
		Shree A. Pandurang	Civil Engg. Member
		Shree Sunil Sangme	MCA Member
4	Administrative officers	Shree Shivaputrappa D.	Administrator, SVE Society, Bhalki
		Shree Somnath Mulge	Registrar, BKIT, Bhalki
5	Local Society	Dr. R.N.Jadhav	Pediatrician, Bhalki

The IQAC will be fully responsible for overall development of the college and getting accreditation from various governing bodies (State & National) to their best at the earliest.

Copy to:

- i. All members, ii. All HODs,
- iii. Registrar, iv. PA to Principal, v. IQAC, vi. Library,
- vii. Maintenance Cell, viii. T & P Cell, ix. SVE Society, x. Sports Cell, xi. O/c

PRINCIPAL  
BKIT, Bhalki  
Bheemanna Khandre Institute  
of Technology, BHALKI

**6.5.2 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If 'yes', give details on its operation.**

### 6.5.2.1 Academic Monitoring Committee (BPMS).

Sl. No.	Name	Designation & Dept.	Status
01	Prof. S.V. Biradar	HOD & Professor, Civil	Chairman
02	Sri Anil kumar patil	Asso.Prof. ME	Member
03	Dr. Nagshettappa Biradar	Asso.Prof. E&CE	Member
04	Smt. Geeta Patil	Asst.Prof. CSE	Member
05	Sri. B.S. Patil	Asst. Prof. CHE	Member
06	Dr. Jagdish Tawade	Asst. Prof AS&H	Member

07	Sri Yogesh G	Asst. Prof. MCA	Member
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Institution has constituted Academic Monitoring Committee (BPMS) to ensure the effective implementation of the curriculum offered by Visveswaraya Technological University, Belgavi.

**6.5.3 Does the institution provide training to its staff for effective implementation of the Quality assurance procedures? If ‘yes’, give details enumerating its impact.**

**Yes**

- Orientation programme on NBA and Mission 10X certification has been conducted to train the staff members. Staff members are aware about the importance of quality procedure and its adoption by the institution.
- Every faculty member is supposed to maintain the system manual along with circulars in each his/her subject file.
- During the two general meeting at the start of each semester of all staff members along with the Head of the Institute all the quality assurance procedures are explained in details thoroughly with presentations by Head of the institution (Principal).

**6.5.4 Does the institution undertake Academic Audit or other external review of the academic provisions? If ‘yes’, how are the outcomes used to improve the institutional activities?      Yes,**

Academic Monitoring Committee(BPMS) conducts Departmental Inspection periodically to assess Attendance Report, Syllabus Coverage, Faculty File, Attendance Register, Work Load Distribution, Student’s Feedback , Blue-book and percentage result in individual subjects etc.

**6.5.5 How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?**

The institute abides by the rules, regulations and guidelines of VTU Belgaum and AICTE- New Delhi in all matters of the academic processes like teaching-learning, conduct of

exams and evaluation. Additionally, the quality assurance systems are aligned with the requirements of NAAC.

**6.5.6 What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?**

- The Head of Department conducts weekly meeting during which he/she takes review of the whole teaching learning process of his department which includes review of teaching plans, attendance sheets, tests, results etc. Parents of weak students are called upon to meet and monthly attendance is sent to all parents along with test performance.
- Chapter wise tests, two unit tests per semester and university exam. results are discussed and reviewed in the department and institute level meetings and corrective measures are planned based on them. Backlog and remedial classes are planned for all students

**6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?**

Institute communicates the internal and external stakeholders its quality assurance policies, mechanisms and outcome through –

- Institute website on which it is uploaded.
- It is communicated to student at the start of each semester on the first day of start of semester by posting the letters to the parents and by SMS.

The Institute informs its external stakeholders through prospectus, pamphlets, publicity in news papers and television

**Any other relevant information regarding Governance Leadership and Management which the college would like to include.**

The college has “Board of Governors” as a top management. Every member of the council including the Chairman BOG, insists for making the college as best among the no. of colleges at national level. The college has well developed infrastructure in all aspects.



## CRITERIA VII: INNOVATIONS AND BEST PRACTICES

### 7.1 Environment Consciousness

#### 7.1.1 Does the Institute conduct a Green Audit of its campus and facilities?

Yes, Institute conducts Green Audit and Energy Audit of the college campus and facilities. Colleges and Universities have broad impact on the world around them, both negative and positive. The activities pursued by colleges can create a variety of adverse environmental impacts. But colleges are also in a unique position as educational institutions to be leaders in pursuing environmentally sustainable solutions. The institution expresses its commitment to sustainability in many ways. It has taken a number of positive steps to reduce its environmental impact. This report serves to highlight many accomplishments of institute for improving the college's environmental sustainability. The college conducts the internal Green Audit and strives to maintain eco friendly atmosphere on the campus.

To maintain eco-friendly ambience a 10 point programme is followed

1. Green building for quality living
2. Know green and think green is promoted on the campus
3. Water conservation and prevention of water wastage
4. Use of LED/CFL bulbs instead florescent bulbs
5. Small generators are substituted with 250 KVA generators to save diesel. CPCB approved.
6. Usage of recycled paper bags was promoted among students by displaying boards like 'Say No to Plastic'
7. Reduce – Reuse – Recycle methods are followed
8. Carbon dioxide neutrality is maintained on the campus by developing greenery
9. All CRT monitors are replaced by TFT monitors.
10. Global warming, bio-diversity and pollution incorporated in the Curriculum practice.

#### 7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?

There are many tasks and activities that are taken by the college to make the campus green and eco-friendly.

### **Energy conservation**

The students and staff members are aware of the importance of energy conservation.

1. Class rooms & laboratories are having natural lighting and good ventilation which reduce the power consumption.
2. Electricity consumption is also reduced by turning off electric devices like computers, fans, lights, air conditioner etc. before leaving the rooms.
3. The fans and lights in each and every room are controlled by a single switch outside the room. It is also controlled through a centralized switch panel. Thus at the click of the switch fans and lights of each room, Department, the entire institute can be turned ON/OFF.
4. Electrical equipments are periodically checked and monitored to ensure energy conservation.
5. The UPS batteries are maintained in good condition which reduces charging current of batteries.
6. Environment friendly-LED and Compact Fluorescent Lamp (CFL) bulbs are used instead of energy consuming tube lights at places like seminar halls, meeting halls, board rooms, hostels, corridors etc., which helps to reduce energy consumption by around 50%.
7. Underground power cables are used to minimize losses.
8. Staggering of classes has been done to reduce peak load.
9. Solar water heaters are used in boys and girls hostel premises to reduce electrical energy consumption.
10. Class rooms, laboratories, offices, seminar hall, board room, library, study room, cabins etc. are equipped with window curtains to reduce heat conduction and reduce the consumption of electricity.
11. Ventilators have been installed in workshop and canteen which help to reduce temperature and provide ample amount of natural light.

### **Use of renewable energy**

#### **Solar Energy:**

Solar energy is the most powerful source of renewable energy. Solar cells are used to convert solar energy into electrical energy to heat the water which fulfills the human needs. Four number of solar water heater systems having 1000 liter per day capacity are used to facilitate hostel students. Solar bulbs are installed in the campus.

#### **Rain Water harvesting:**

The Institute has rain water harvesting facility, in order to increase the water table, as a part of conservation and preservation of natural resource-water.



### **Efforts for Carbon neutrality:**

- ✓ The solar energy is converted in to electrical energy which does not produce carbon dioxide and other air pollutants. Mess waste management is done by vermicompost unit. Tree plantation is carried out by NSS TEAM to reduce the carbon percentage in atmosphere.
- ✓ No Private Vehicle Day is observed by the institute where in staff and students are prohibited from using their private vehicles while coming and leaving the institute.
- ✓ Garden, green lawns and plantation in and around the campus is also helpful in fixation of carbon content present in environment.
- ✓ Frequent inspection of college vehicles and generator set and other equipment ensures lowest possible emission and pollution free environment thereby neutralizing the carbon effect.
- ✓ Solar water heaters are used in hostel premises to reduce electrical energy consumption and thereby it reduces the emission of carbon dioxide.

### **Plantation:**

Open area by the side of Institute and hostel is planted and regularly maintained by watering, cuttings etc. Plantation of trees is a regular phenomenon. The lawns in campus are maintained with water sprinklers. The Institute has successfully implemented a Tree Plantation Programme through the NSS activity, which has resulted in a green and eco friendly campus. The College NSS Unit conducted tree planting programme in the year 2012 and in 2013 and saplings were planted in the campus.

The green Beautiful garden in the college resulted in a green and eco friendly campus.

### **E-waste management:**

Electronic and computer accessories which are declared “Obsolete” are sold through auction to a licensed vendor on periodical basis. Low-end systems are being sponsored to schools and colleges of sister institutions of the society.

### **Hazardous waste management:**

Chemicals and Hazardous materials used for the purpose of training and practical sessions are purchased in limited quantities hence no managing/disposing of outdated chemicals is

required. All the toilets and bathrooms waste water lines are directly connected to the common drainage system.

### **Vermicompost:**

Vermicomposting is the processing of organic wastes through earthworms. Earthworms ingest waste then excrete casts – dark, odorless, nutrient- and organically rich, soil mud granules that make an excellent soil conditioner. Earthworm casts are a ready-to-use fertilizer that can be used at a higher rate of application than compost, since nutrients are released at rates that growing plants prefer. Vermicasting can be done using organic wastes such as fruit and vegetable cull materials.

Four vermicompost units is of size 10 x 3 x 3 are built near the Girls hostel which uses organic wastes such as food and vegetable cull materials from the mess and garden.

## **7.2 Innovations**

**7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the college.**

### **Academic Innovations**

- Academic monitoring is performed regularly which includes data submission regarding lecture's and practical conducted and student attendance.
- Remedial classes are conducted for students who have failed in university examinations.
- Student feedback system for taking feedback of teachers and departments.
- Book- bank scheme for all students.
- Parent teacher for every 20 students (proctor/ mentorship scheme), where staff conducts meeting for these students every week to resolve their academic and other problems.
- Orientation for the newly admitted students of the college is an annual feature. The students are acquainted with the rules and regulations of the institute which helps them to adapt themselves to new atmosphere.
- A senior faculty member is assigned as class coordinator for each class to take care of each student.
- Guest lectures by experienced people from leading industries and reputed institutions are organized for the students and faculty.

- The college has a very effective feedback system from parents, alumni and students. This feedback acts as a lighthouse for the faculty and there are always chances for them to improve their performance.

### **Usage of LCD Projectors:**

Computer Systems and LCD projectors were fixed in more than 40% of the class rooms in each department and teachers are encouraged to use the projectors to provide quality teaching.

### **Training Programs from first year:**

Personality development is a major requirement for professional students. The college is organizing several training programs from the first year itself for better improvement of their personality. Campus Recruitment Training classes are also conducted in each department. The programs being conducted from first year to final year are playing vital role in placements and career development of the students.

### **Administrative Innovations**

#### ➤ **Office Automation:**

The administrative work of the college is completely automated and systems are provided to the office staff. Sufficient training was given to the office staff for efficient utilization of the computers. Office automation helps to reduce the delays in providing service to the stake holders.

#### ➤ **Library automation:**

The central library is fully automated to cater the needs of students and staff. The library offers computerized catalogue search through the OPAC Service. The library has provision for reading e-books, e-journals, online courses and watching CDs/DVDs. The library is open till midnight.

The college has an anti- ragging, guidance and counseling cell. Anti-Ragging committee ensures that no incident of ragging happens in the college premises. It instills a feeling of confidence among new students. Guidance and counseling cell guides the students about the trends, opportunities and challenges in the job market and prepares them to choose careers of their choice.

### 7.3 Best Practices

7.3.1 Elaborate on any two best practices in the given format at page no. 98, which have contributed to the achievement of the Institutional Objectives and/or contributed to the Quality improvement of the core activities of the college.

#### **Best Practice-1:**

**1. Title of the Practice:** “Practical/Industrial Exposure to the Students”

**2. Goal:**

The goal of this practice is to provide practical exposure to students, so as to broaden their knowledge base thereby enhancing their confidence, employability and research skills. This practice would ensure a good academic record and develop leadership qualities.

**3. The Context:**

Due to the rapid up gradation of technology, a demand for new products, globalization and a highly competitive market, students need to keep themselves abreast with the latest trends in the industry. In order to bridge the gap between academic and industry the students need to get practical exposure. Need of the hour is for academic to identify, understand and provide solutions for problems faced by the industry and to train the students to tackle the same. Hence it is vital to give relevant practical exposure to the students, so that they gain technical knowledge and enhance their confidence.

**4. The Practice:**

Students are expected to be academically strong and have a good practical exposure. Students are encouraged to upgrade their knowledge in their respective disciplines. Besides having a good academic records, students need to have good communication skills, soft skills and learn ability skills. To cater to these aspects of student development eminent personalities from various reputed Institutes and industries are invited to impart practical exposure to the students through conferences, workshops, seminars, guest lecturers etc. Industrial visits are arranged for students to get an insight into the industrial environment. Students are encouraged to undertake sponsored projects to get hands on experience. Students are motivated to participate in project competitions, National/International conferences/ Workshops and, seminars. They are encouraged to

share their ideas with the outside world by presenting their research work in National and International conferences and Journals. The progress of the students is regularly monitored by their project guides. The training and placement cell conducts aptitude tests to prepare students to face job interviews. Coaching sessions are arranged for preparing students to appear for competitive exams like GATE.

### **5. Evidence of Success**

The Institute efforts are indicative in student's academic performance and placements. Sizeable numbers of students are pursuing post graduate programs. The Institutes success is evident from the MoUs with reputed organizations/industries such as IIT Roorkee, Amrita University Kerala, IIIT Hyderabad, BLDE University Bijapur, Preva Systems Bangalore.

### **6. Problems Encountered**

Time constraints due to the semester pattern and in-sem examinations limit the number of workshops, seminars and guest lectures.

### **7. Resources Required**

Necessary provisions are made in the budget allocation.

The confidence of the students is boosted by arranging the expertise training and corrective measures taken by the Institute. There is recognition and appreciation by the Industry and students, and they are actively participating in all such Programmes. Due to the impact of above practice, noticeable positive change has been observed in education process. The student's measurable performance is observed through their better placement, the efforts made by the Institute are well appreciated by the industries.

### **Best Practice-2:**

#### **1. Title: Comprehensive Student Monitoring System.**

#### **2. Goal/Objectives:**

The objectives of the comprehensive student monitoring system are

- To monitor the students regularity & discipline.
- To enable the parents to know about the performance & regularity of their wards.
- To counsel and direct the students to achieve the intended goals.

### 3. The Context:

Inculcating discipline, punctuality and motivation among the students is the main objective in career building of a student. In this direction, the college has a well established system to monitor the students' activity. The organizational structures, policies, and practices support monitoring the student's progress and commitment to learning during each semester.

### 4. The Practice:

- The college has an effective Student Information system for recording students' attendance as well as performance in the internal Exams being conducted in each semester.
- The teacher takes students attendance in every class during the first five minutes and after the class enters the list of absentees in the academic activity register to enable the head of the department to monitor the students in each period of the day.
- The class co-coordinator prepares the monthly attendance of the students for each section and sends the information to the parents of irregular student through proper channel.
- The following measures are being taken for improvement of the attendance of the students
- The concerned teacher enquires and counsels the student if he/she is absent for two continuous classes. The class-coordinator enquires and counsels the student if he/she is continuously absent for more than four days and directs him to HOD for necessary action.
- The HOD warns the student if he/she is absent continuously for more than one week and informs the parents about his/her irregularity.
- The HOD calls the parents of a student if he /she is absent continuously for more than two weeks, enquires the reason and advises them to take care of their ward. The HOD forwards the details of a student to the Principal for further action if he/she is absent continuously even after informing his parents. Periodic meetings are conducted by the Principal with HODs to review the punctuality and regularity of the students.

- Weightage is given to attendance and internal marks to improve the student's regularity.
- Students participate in the events conducted in the college or other colleges with the prior permission of the concerned HOD.
- Disciplinary Committee of the college promptly curbs the indiscipline in the campus.
- Anti-Ragging Committee monitors the fresher's by frequently visiting the sensitive areas within the campus and outside the campus.
- Additional duty is assigned to the faculty members to monitor the fresher's from being affected by any sort of ragging in and around the campus.

### **5. Evidence of Success:**

The improvement in attendance of the students speaks volumes regarding steps taken for monitoring the students. The decrease in detention rate justifies the mechanisms adopted for monitoring the students. The enhancement in performance of the students due to regular monitoring and discipline in the college is an evidence of success of the practice. It has also been observed that due to the systemic monitoring of the students their academic performance has shown improvement. Alumni of this college are doing well in the corporate world. The college has produced a number of Entrepreneurs.

### **6. Problems Encountered:**

No problems are encountered in forming various committees and conducting meetings due to proper distribution of load among the staff.

#### **Few problems are encountered in the implementation:**

1. Enquiring the student in the class, regarding his absence, wastage of time for all the students in the class.
2. Poor response of the parents for enquiries from the college Resources Required:
3. Extra efforts of staff and the HOD to counsel the students and to explain the parents about their role and cooperation in monitoring their wards.
4. Students are reluctant to wait after college hours for attending extra classes.
5. Students hesitate to report to the proctor. Counseling of students from rural area becomes difficult since they are shy and do not openly discuss their problems.



These problems are solved with the total involvement of the Principal, the HOD and the staff and they are successful in making the parents aware of their role in building the career of their wards.

### **7. Resources Required:**

The only resource required for this practice is motivated faculty and there is no dearth of such faculty in the Institute.

### **Best Practice-3:**

#### **1. Title: BPAS (BKIT Performance Appraisal System) and BPMS (BKIT Performance Management System).**

#### **2. Goal:**

BPAS and BPMS are the indigenously developed mechanism for ensuring effective implementation of teaching – learning process, overall development of the students and ongoing development of faculty members. BPAS consists of four distinctive components (categories) out of which first two focuses on teachers-Student development and curricular development activities for becoming an outstanding teacher, where as, third category focuses on research activity carried out by individual faculty and last one focus on result achievements for getting excellent academic performance .Where as BPMS focuses on duties and responsibilities of each faculty and students. It also tells about discipline aspects for faculty and students.

In short the formula is:

**BPAS and BPMS= TEACHERS' DEVELOPMENT + TEACHING APPROACH + STUDY APPROACH + STUDENTS'DEVELOPMENT = EXCELLENT ACADEMIC and OVERALL PERFORMANCE**

### 3. Context:

Institute is located in rural part of North Karnataka. Most of the students admitted to the college were from rural and agricultural background. The students as well as the parents lack of awareness about technical education. Hence it is essential to ensure the academic development of the students. Students lacked confidence and were over anxious which led to poor academic performance in spite of ability. Through channelized efforts, by a proper mechanism, performance of the students can be improved. Hence, teaching and study approaches had to be defined in order to cater to this need.

Bhalki does not have any industry presence. Students had to compete with students of other urban established colleges for employment. Therefore to improve the employability, overall development of the students is essential in addition to academic performance. BPAS and BPMS was designed and developed to overcome these challenges.

### 4. The Practice:

Details of BPAS components are described below:

- A. **Teachers' development:** This component takes care about teachers being up-to-date on academic, research and communication fronts. For competence on academic front, teachers are required to upgrade their qualification. They should attend summer/ winter schools/workshops/training programs etc. They are required to get industrial exposure through visits and training for one month during vacation. They are required to study and present journal papers. They are required to present papers and publish articles in National and International conferences/seminars and journals.
- B. **Teaching approach:** It helps the teachers to deal with the subject and the concerned students. It explains, how the teacher should maintain the records such as subject file, attendance of the students, performance of students, behavioral aspects of students, feedback from the students, teaching plan, etc. Teachers are required to prepare the teaching plan well in advance and maintain it up-to-date. After coverage of the syllabus the previous three year VTU exam question papers are solved in the class.

Teachers are required to remember the names of the concerned students. They are required to be in class/lab in time and also leave in time. They are required to ensure

that the students occupy the benches from the first row. They are further required to take due care about attendance of the students. It deals with how the teachers should handle teaching of the subject.

**C. Study approach:** It tells the students about the importance of maintaining record, being up-to-date and also gives guidelines about how to study for excellent academic performance. The students are required to maintain separate notebooks for all the subjects, have collection of question papers, understand the importance of attendance and act accordingly, go for write-up of concepts taught in the classroom, etc.

**D. Students' development:** Students have to submit the assignments given by the teacher every fortnight which will improve their academic performance. Students are required to undergo the activities like aptitude tests, paper presentations, Quiz competitions etc.

### **5. Evidence of Success:**

Many the students are placed through campus interviews. Many industries revisit the campus for placements. This indicates the quality of education in the institute. The pass percentage of students is being maintained above 80 %. This clearly indicates the effectiveness of implementing the teaching-learning process as per BPAS.

In the last four years, about 50% of the faculty members have been supported by the college for upgrading their Knowledge base and qualification. Total 12 faculties have completed their Ph. D. during the last four years. Presently there are about 50 faculty members are pursuing the same.

Maximum of the faculty members have attended Faculty Development Programs (FDPs)/Industrial training/Workshops/Conference/Seminars in the past four years. This indicates the overall exposure of the faculty to advanced technologies and industry.

College has received grants of Rs 1.7 Cr as on date. At present about 50% of the faculty are involved in research. Paper publications of the faculty and students in national/ international journals/ conferences have reached about 500. This indicates the exposure and development of research culture.

### **6. Problems Encountered and Resources Required**

Among the most difficult problems faced for implementation of BPAS are, those associated with teaching effectiveness. The preparation of teachers, specific subject matter, specific academic skills, etc., did not take into consideration sufficiently the complexity of factors required for becoming an excellent teacher. There is strong need to train faculty to adapt to instruction style of BPAS and BPMS.

Primary problem faced in the implementation of BPAS was lack of awareness. The students were not aware of the right approach of study and were not adaptive to change. The emotional problems encountered are excessive stress in doing academic tasks and low self-esteem or not believing in one's capabilities.

Gradually after witnessing the merits of the pattern, BPAS and BPMS was duly accepted and now it is deeply embedded in the fabric of the teaching learning process of the Institute. The required resources and infrastructure have been provided by the institute to support the process.

**SECTION – C**

**EVALUATIVE REPORT  
OF THE DEPARTMENTS**

[illegible]

## 7. Courses in collaboration with other universities, Industries, foreign institutions, etc.: **Yes**

Sl. No.	Institute/ Industries	Contact Person	Details	Academic Year of Signing
1.	SPHR solutions, Mumbai	Rahul Desai, Director	SPHR solutions Pvt. Ltd. Mumbai	2011-12
2.	MEDINI, Bangalore	MEDINI Bangalore	MEDINI Bangalore	2012-13
3.	IIT Roorkee	Dr. Vinod Kumar, Deputy Director and Professor, Department of EEE, IITR	Expression of Interest(EOI) for Virtual Labs Nodal Centre (VLNC)	2015-16
4.	IIIT, Hyderabad	Dr. Venkatesh Chopalla, Professor, Department of Computer Science Engg.,IIITH.	Expression of Interest(EOI) for Virtual Labs Nodal Centre (VLNC)	2015-16
5.	Amrita University	Miss. Shilpa Selvan	Expression of Interest(EOI) for Virtual Labs Nodal Centre (VLNC)	2015-16
6.	Pro-SIM R & D Pvt. Ltd., Bangalore	Mr. Chidanand G., Technical Head	Pro-SIM learning centre	2015-16
7.	COPES Tech. India Pvt. Ltd., Bangalore	Mr. Rajesh Deshilinge Gowda, M.D.	COPES Tech. India Pvt. Ltd.,	2015-16
8.	Preva Systems, Bangalore	Mr. Sharan K. M.D.	Internet of Things, Centre of Excellence	2015-16

## 8. Detail of courses /programme discontinued (If any) with reasons: **NIL**



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### 9. Number of teaching posts:

Teaching Post	UG		PG	
	Sanctioned	Filled	Sanctioned	Filled
Professors	03	02	01	01
Associate Professors	09	09	01	01
Asst. Professors	24	21	01	01

### 10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided/guiding for the last 4 years
Dr. T. S. Vishwanath	Ph.D.	Professor	Control System	24	Guiding: 05
Dr. C. M.Tavade	Ph.D.	Professor	Material Science	30	Guiding: 08
Prof. A. S.Inamdar	M. E.	Professor	Power Electronics	40	-----
Dr. B Suryakanth	Ph.D.	Assoc. Prof.	Smart Antenna	25	Guiding: 07
Dr. Sanjaykumar Gowre	Ph.D.	Assoc. Prof.	Optics & Photonics	21	Guiding: 08
Dr. Nagashettappa Biradar	Ph.D.	Assoc. Prof.	Bio Medical Image Processing	16	Guiding: 02
Ramesh D	M. Tech. (Ph. D)	Assoc. Prof.	Biomedical Signal Processing	19	NA
Kalpana C	M. Tech. (Ph. D)	Assoc. Prof.	Antenna	18	NA
Gurupadappa H	M. Tech. (Ph.D)	Assoc. Prof.	Power Systems	26	NA
Satish K	M. Tech. (Ph. D)	Assoc. Prof.	MW Communication	14	NA
Sharanbasappa B	M.E. (Ph. D)	Assoc. Prof.	Antennas	16	NA
Udaykumar K.	M. Tech. (Ph.D)	Assoc. Prof.	VLSI& ES	15	NA
Sanjeev Gogga	M. Tech. (Ph. D)	Assoc. Prof.	Power & Photonics	19	NA
Dhiraj D	M. Tech.	Asst Prof.	Communication Systems	21	NA

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Hameed M	M. Tech. (Ph. D)	Asst Prof.	Wireless communication	15	NA
Mallikarjun Sarsamba	M. Tech. (Ph. D)	Asst Prof.	Power & Antenna	13	NA
Nagnath Biradar	M. Tech. (Ph. D)	Asst Prof.	Wireless Sensor Network	12	NA
Dhanraj Biradar	M. Tech.	Asst Prof.	VLSI& ES	08	NA
Vijaykumar Katgi	M. Tech. (Ph. D)	Asst Prof.	VLSI& ES	07	NA
Pralhad S	M. Tech.	Asst Prof.	VLSI& ES	07	NA
Amit Kumar Singh	M. Tech.	Asst Prof.	Embedded System	07	NA
Prashant Sangulgi	M. Tech. (Ph. D)	Asst Prof.	Digital Communication	5.5	NA
Mallikarjun T	M. Tech. (Ph. D)	Asst Prof.	Embedded System	5.5	NA
Saba Fatima	M. Tech. (Ph. D)	Asst Prof.	VLSI& ES	3.5	NA
Shivkumar Raga	M. Tech.	Asst Prof.	Electronics	01	NA
Meenaxi Patil	M. Tech.	Asst Prof.	Embedded system	01	NA
Santosh A.	M. Tech.	Asst Prof.	VLSI	01	NA
Sandeep K.	M. Tech.	Asst Prof.	Communication system	01	NA
Prasanth K.	M. Tech.	Asst Prof.	VLSI & Embedded system	01	NA
Nilambika H.	M. Tech.	Asst Prof.	Embedded system	01	NA
Malshetty T	M. Tech. (Ph.D.)	Asst Prof.	Digital electronics	01	NA
Prasanth S. H.	M. Tech.	Asst Prof.	VLSI & Embedded system	01	NA
Masum S.	M. Tech.	Asst Prof.	Digital system networking	01	NA
Vinodkumar B.	M. Tech.	Asst Prof.	Digital communication	01	NA
Asha Rani	M. Tech.	Asst Prof.	Biomedical electronics	01	NA

11. List of senior visiting faculty: **All classes are held by regular faculty members**

12. Percentage of lectures delivered and practical classes handled by temporary faculty:

All classes are handled by regular faculty members only.

13. Student -Teacher Ratio (programme wise)

Programme of Study	No. of Students	No. of Teachers	Student -Teacher Ratio
UG	284	32	10:1
PG	17	03	2:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled.

Post	Sanctioned	Filled
Academic Support Staff (Technical)	16	16
Administrative Staff	05	05

15. Qualifications of teaching faculty with D.Sc./ D.Litt./ Ph.D./ M.Phil. / PG.

Ph. D. faculties	Ph. D pursuing faculty	PG faculty
05	14	16

16. Number of faculty with ongoing projects from a) National b) International funding

Agencies and grants received:

Sl. No.	Title of the Project	National /International	Funding Agency	Principal Investigator & Co-Investigator	Amount Sanctioned	Academic Year
1.	Photonic devices for optical networks	National	VTU Belagavi	Dr. Sanjaykumar Gowre	10 lacs	2010-11
2.	Design of photonic communication system	National	VGST Bengaluru	Dr. Sanjaykumar Gowre	20 lacs	2014-15

17. Departmental projects funded by DST – FIST; UGC, DBT, ICSSR, etc. and total

Grants received: **Yes**

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Sl. No.	Funding Agency	Title of Project	Amount Sanctioned	Principal Investigator	Academic Year
1.	KSCST Bengaluru	Wavelet Transform based Signal Filtering of Ocular Artifacts in EEG signal	4000	Hameed Miyan	2012-2013
2.	VGST Bengaluru	Design of photonic communication system	20lacs	Dr. Sanjaykumar Gowre	2014-2015
3.	KSCST Bengaluru	Black Box For Vehicle	6000	Saba Fatima	2014-2015
4.	KSCST Bengaluru	Semi Smart Antennae	5000	Mallikarjun C S	2014-2015

18. Research Centre /facility recognized by the University: **Yes**

a) State Recognition: i. R & D Centre recognized by VTU

ii. VGST K-FIST Level 1 Lab

b) National Recognition: c) International Recognition:

Sl. No.	Position Held	Name of Faculty	National/ International	Organization	Academic Year
1.	Executive member	Prof. Dhiraj D	National	IETE Gulbarga Sub-Centre	2015-16
2.	Recognized Reviewer	Dr. Nagashettappa B	International	Computers in Biology and Medicine, Elsevier Journal	2015-16
3.	Recognized Reviewer	Dr. Nagashettappa B	International	Computers and Electrical Engineering, Elsevier Journal	2015-16
4.	Secretary	Dr.Sanjaykumar Gowre	National	IETE Gulbarga Sub-Centre	2015-16

## 19. Publications: **200**

- Publication per faculty: **08**
- Number of papers published in peer reviewed journals (national /International) by faculty and students: **140**
- Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Science Directory, EBSCO host, etc.): **140**
- Monographs\* Chapter in Books\* Books Edited: **Nil**
- Books with ISBN/ISSN numbers with details of publishers: **Nil**
- Citation Index: **53**
- SNIP: **0.717-1.186**
- SJR: **0.316-0.4**
- Impact factor: **0.5 to 3.4**
- h-index: **15**

Sl. No.	Papers Published in International Journal	Papers Published in National Journal	Papers Published in International Conference	Papers Published in National Conference	Total	Year
1.	11	00	00	01	12	2011-12
2.	28	04	06	05	43	2012-13
3.	22	08	02	28	60	2013-14
4.	50	17	05	13	85	2014-15
	111	29	13	47	200	Total

## 20. Areas of consultancy and income generated:

Name	Project	Year
Dr. T. S. Viswanath	GESCOM	2010-2011

21. Faculty as members in

National and International Committees	Editorial Board	Life Membership	Reviewer Board	Fellowship
ISTE(Indian Society for Technical Education)	-----	5	-----	-----
IETE (The Institution of Electronics and Telecommunication Engineers)	-----	18	-----	2
IACSIT(International Association of Computer Science and Information Technology)	-----	3	-----	-----
IJEEEE(International Journal of Ethics in Engineering and Management Education)	1	-----	1	-----
ELSEVIER	-----	-----	1	-----
IAENG(International Association of Engineers)	-----	1	-----	-----
IJSER(International Journal of Scientific and Engineering Research)	1	-----	1	-----
International Journal of Advanced Research in Electronics Electrical & Instrumentation Engineering (IJAREEIE)	1	-----	-----	-----
International Research Journal of Electrical and Electronics Engineering (IRJEEE)	-----	-----	1	-----
IJRET	-----	-----	1	-----
<b>Total</b>	3	27	5	2

22. Student projects

**a) UG:**

- Percentage of students who have done in-house projects including inter-departmental: 90%
- Percentage of students doing projects in collaboration with industries / institutes: 10% (Each project is carried out by four student's maximum in each batch).

**b) PG:**

- Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies:80%
- Percentage of students who have done in-house projects including inter-departmental: 20%

## 23. Awards / Recognitions received by faculty and students:

Sl. No.	Name of the Student	Details of the Award	National /International	Academic Year
1.	Prasanth K.	Runner up in E-BUZZ-7 event Word war 7 Held at, GNDEC Bidar, Karnataka	National Technical and cultural fest	2014-15
2.	Prasanth K.	Runner up in E-BUZZ-7 event Word war 7 Held at, GNDEC Bidar, Karnataka.	National Technical and cultural fest	2014-15
3.	Prasanth K.	Best paper award, Techovision-2016, Technical paper presentation contest held at Govt. College of Engg. Jalagaon. Maharashtra	National Technical paper presentation contest	2015-16

## 24. List of eminent academicians and scientists / visitors to theDepartment

Sl. No.	Name of Faculty	Organization	Purpose of Visit	Academic Year
1.	Dr. Venu Govindraju	University of Buffalo, USA.	International Conference on Communication, Computation, Control & Nanotechnology (ICN-2011)	2011-12
2.	Dr. Nagabhushan	Mysore University, Mysore.	International Conference on Communication, Computation, Control & Nanotechnology (ICN-2011)	2011-12
3.	Dr. Babu M	IDRBT Hyderabad.	International Conference on Communication, Computation, Control & Nanotechnology (ICN-2011)	2011-12
4.	Dr. Sharat Chandra C	IBM, USA.	International Conference on Communication, Computation, Control & Nanotechnology (ICN-2011)	2011-12
5.	Dr. Ishwar Sethi	Ookland University, USA.	International Conference on Communication, Computation, Control & Nanotechnology (ICN-2011)	2011-12
6.	Dr. M A R M Fernando	Peradeniya University, Kandy, Sri Lanka	International Conference on Communication, Computation, Control &	2011-12



			Nanotechnology (ICN-2011)	
7.	Dr. B Chakravarthy	Jawaharlal Nehru Technological University, Hyderabad.	International Conference on Communication, Computation, Control & Nanotechnology (ICN-2011)	2011-12
8.	Mr. Krishanan	MIT, Delhi.	International Conference on Communication, Computation, Control & Nanotechnology (ICN-2011)	2011-12
9.	Dr. Anil Kumar Nandi	Professor ECE Department, B.V.B. Hubli	One Day workshop on Ultra low power MSP430-	2011-12
10.	Dr. D.G. Rao	Senior Scientist, DRDO, Hyderabad	National Conference on Recent Emerging Innovations and Technology (NCRIET)	2013-14
11.	Dr. Vinod Kumar	Dean, Faculty and Professor, Department of EEE, IIT Roorkee	National Conference on Recent Emerging Innovations and Technology (NCRIET)	2013-14
12.	Dr. S. N. Kurbet	Head, Department of Mechanical Engg. B.E.C., Bagalkot.	National Conference on Recent Emerging Innovations and Technology (NCRIET)	2013-14
13.	Mrs. G Gourishanker	Wipro Tech, Hyderabad	National Conference on Recent Advances in Science and Technology (NCST)	2013-14
14.	Dr. R V Rajakumar	Vice Chancellor, IIIT Hyderabad.	National Conference on Recent Advances in Science and Technology (NCST)	2013-14
15.	Mr. Uma Maheshwar	Sr. IT Manager ,CMC Limited, Hyderabad	National Conference on Recent Advances in Science and Technology (NCST-2014)	2013-14
16.	Dr. S. N. Mulge	Professor, Applied Electronics, Gulbarga University, Gulbarga.	Second National Conference on Recent Emerging Innovations and Technology (NCRIET-2015)& NCST-2014	2013-14 2015-16
17.	Dr. Suryakanth G	IIIT, Hyderabad	VTU-VGST sponsored FDP on "Future Research Trends & Innovations in Information	2013-14

			Communication & Technology”	
18.	Dr. Rama Murthy	IIIT Hyderabad	VTU-VGST sponsored FDP on “Future Research Trends & Innovations in Information Communication & Technology”	2013-14
19.	Dr. Anil V	IIIT Hyderabad	VTU-VGST sponsored FDP on “Future Research Trends & Innovations in Information Communication & Technology”	2013-14
20.	Dr. Siddarama Patil	PDACE Gulbarga	VTU-VGST sponsored FDP on “Future Research Trends & Innovations in Information Communication & Technology”	2013-14
21.	Mr. Madhukeshwar	HCL Technologies	VTU-VGST sponsored FDP on “Future Research Trends & Innovations in Information Communication & Technology”	2013-14
22.	Mr. Veeresh N	Winslow Systems, Bangalore	VTU-VGST sponsored FDP on “Future Research Trends & Innovations in Information Communication & Technology”	2013-14
23.	Mr. Arvind	UTC Aerospace, Bangalore	VTU-VGST sponsored FDP on “Future Research Trends & Innovations in Information Communication & Technology”	2013-14
24.	Mr. Santosh W	Xlinix Hyderabad	Industry Institute Interaction on VLSI Design, Embedded System & Telecommunication	2013-14
25.	Dr. Kishore	IIT, Varanasi	Industry Institute	2013-14

			Interaction on VLSI Design, Embedded System & Telecommunication	
26.	Mr. Rajeshkar Reddy Masi	Sr. Software Engineer,	Industry Institute Interaction on VLSI Design, Embedded System & Telecommunication	2013-14
27.	Mr. Sharan K	Preva Systems, Bangalore	Industry Institute Interaction on VLSI Design, Embedded System & Telecommunication	2013-14
28.	Mr. Radhesh Fadnis	System architect, Wipro, Bangalore	Industry Institute Interaction on VLSI Design, Embedded System & Telecommunication	2013-14
29.	Dr. Hara Prasad	Scientist G, DLRL, Hyderabad.	Second National Conference on Recent Emerging Innovations and Technology (NCRIET-2015)	2014-15
30.	Dr. Venkatesh Kulkarni	Former Special Officer, VTU, RO Kalaburagi	Second National Conference on Recent Emerging Innovations and Technology (NCRIET-2015)	2014-15
31.	Dr. Basavaraj Gadgay	Special Officer, VTU, RO Kalaburagi	Second National Conference on Recent Emerging Innovations and Technology (NCRIET-2015)	2014-15
32.	Dr. Reshma Chengappa	International Basket Ball Player and PG Co-ordinator, Maharani Women PG College, Mysuru	National Conference on Women Empowerment (NCWE-2015)	2014-15
33.	Mr. Pravin Kulkarni	System Consultant, Wipro Technologies, Pune	Address to VI Sem students and project Demo inspection Special Guest	2014-15
34.	Mr. Praveen Dua	Entrepreneur, Ludhiana	Address to VI Sem students as Special Guest	2014-15
35.	Mrs. Shruti G.	Manager, Lead Nation Telangana	National Conference on Women Empowerment (NCWE-2015)	2014-15
36.	Mrs. Sangeeta	ASP, Bidar	National Conference on	2014-15

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			Women Empowerment (NCWE-2015)	
37.	Mrs. Parveen B	Civil Judge, Bidar	National Conference on Women Empowerment (NCWE-2015)	2014-15
38.	Mrs. Ujwala V	Civil Judge, Bidar	National Conference on Women Empowerment (NCWE-2015)	2014-15

### 25. Seminars/ Conferences/Workshops organized & the source of funding

Sl. No.	Seminars/Conferences/ Workshops organized	National /International	Source of funding	Duration	Academic Year
1.	Mission 10X Workshop for Staff	Muttuswamy, Jayaprakash, Sai Vijay	Wipro	07	2011- 12
2.	One day Faculty Development Program	Mr. V K Nadimpalli,	MSME Govt. of India	01	2011-12
3.	Advanced Mission 10X Workshop for Staff	Mr. Ashok Kumar,	Wipro Bangalore		2011-12
4.	International Conference on Communication , Computation and Management (ICN-2011)	International	VTU, ISTE	23-25 September, 2011	2011-12
5.	One Day National Level workshop on Women Empowerment-2012	National	Self	20 March, 2012	2011-12
6.	Faculty development programme on Micro-electronics and circuits.	National	ISTE	16 <sup>th</sup> Feb. 2013	2012-13
7.	Two days National Level Seminar on WE-Women for Excellence-2013	National	Self	8 March, 2013	2012-13
8.	National level workshop on “Recent Research Trends in Communication and Network”	National	ISTE	March 15-16, 2013	2012-13
9.	III on VLSI Design, Embedded System & Telecommunication	National	Self	27-28 Sept. 2013	2013-14
10.	One week winter school program on Recent innovations in HDL and Microprocessor 2014	National	ISTE	21-25 Jan. 2014	2013-14
11.	One day National Level Workshop on WE-	National	Self	8 March, 2014	2013-14

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	Women in New Era-2014				
12.	National Conference on Recent Advances in Science and Technology (NCST-2014)	National	VTU, ISTE, IETE, Science and Technology	22-23 March, 2014	2013-14
13.	National workshop on “Advances in Communication” 2014	National	ISTE	4 <sup>th</sup> and 5 <sup>th</sup> April 2014	2013-14
14.	National Conference on Recent Emerging Innovations and Technology (NCRIET-2014)	National	VTU, ISTE	3-4 May, 2014	2013-14
15.	VTU-VGST sponsored FDP on “Future Research Trends & Innovations in Information Communication & Technology”	National	VGST Bangalore, Science and Technology, VTU Belgaum	8 <sup>th</sup> to 11 <sup>th</sup> May 2014	2013-14
16.	Workshop on Advances in Network Simulator Tools (ANST-2014)	National	ISTE, IETE	31 July-02 Aug. 2014	2014-15
17.	National Conference on Women Empowerment(WE-2015)	National	Self	29-30 March, 2015	2014-15
18.	Second National Conference on Recent Emerging Innovations and Technology (NCRIET-2015)	National	VTU, ISTE, IETE	7-8 November, 2015	2015-16

26. Student profile programme/course wise:

i) UG: **Total Intake 180 w.e.f. 2013-2014**, earlier years it was 120

Name of the Course/programme	Applications Received	Selected	Enrolled		Pass percentage	Academic Year
			*M	*F		
BE E&CE	98	98	51	47	94.73	2011-12
BE E&CE	110	110	47	63	95.74	2012-13
BE E&CE	154	154	78	76	87.59	2013-14
BE E&CE	108	108	45	63	86	2014-15

**ii) PG: Total intake 18 w.e.f. 2013-2014**

Name of the Course/programme	Applications Received	Selected	Enrolled		Pass percentage	Academic Year
			*M	*F		
PG DCN	-	-	-	-	--	2011-12
PG DCN	-	-	-	-	--	2012-13
PG DCN	18	18	07	11	100	2013-14
PG DCN	16	16	04	12	100	2014-15

**\*M=Male \*F=Female**

**27. Diversity of Students**

**i) UG:**

Name of the Course	% students from the same state	% of students from other States	% of students from abroad	Academic Year
BE E&CE	88.77	11.22	-	2011-12
BE E&CE	90.00	08.18	01.81	2012-13
BE E&CE	94.80	05.19	-	2013-14
BE E&CE	93.51	05.55	0.92	2014-15

**ii) PG:**

Name of the Course	% students from the same state	% of students from other States	% of students from abroad	Academic Year
PG DCN	-	-	-	2011-12
PG DCN	-	-	-	2012-13
PG DCN	88.88	11.11	-	2013-14
PG DCN	100.00	00	-	2014-15

**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. ?**

Students appeared for GATE/Civil Services/ Defense Services	Academic Year
15	2011-2012
25	2012-2013
30	2013-2014
40	2014-2015

29. Student progression

Year	2012-13	2013-14	2014-15	2015-16
Student progression	Against % enrolled	Against % enrolled	Against % enrolled	Against % enrolled
UG to PG	45	55	62	60
PG to M.Phil.	NA	NA	NA	NA
PG to Ph.D.	NIL	NIL	NIL	NIL
Ph.D. to Post-Doctoral	NIL	NIL	NIL	NIL
Employed				
-Campus selection	30	10	15	12
-Other than campus recruitment	15	11	13	19
Entrepreneurship/Self-employment	01	-	01	01

30. Details of Infrastructural facilities

a) **Library**

1. Seating capacity: **20 Students**

2. Library holdings:

Library Holdings	No. of Volumes
Books	2717
Project reports	126
Seminar reports	592
Vocational Training Report	14

b) **Internet facilities for Staff & Students**

<b>Internet Service Provider (ISP)</b>	BSNL
<b>Lease Line</b>	20Mbps
<b>Compression Ratio</b>	1:1
<b>Wi-Fi facility</b>	Yes
<b>Firewall</b>	Cyberoam150NG
<b>Router</b>	Cisco SG300-28

c) **Class rooms with ICT facility**

Room Description	Usage	Shared/ Exclusive	Capacity	Rooms equipped with PC, internet, book rack, meeting space, etc.
Old Seminar Hall	Class room 2nd Year	Exclusive	100	Desk, platform, fans, tube lights, green board, Chairs, podium.
L-18	Class room 2nd year	Exclusive	80	Desk, platform, fans, tube lights, green board, Chairs, podium.
L-19	Class room 4th year	Exclusive	80	Desk, platform, fans, tube lights, green board, Chairs,

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				podium.
L-20	Class room 4th Year	Exclusive	60	Desk, platform, fans, tube lights, green board, Chairs, podium.
L-21	Class room 3rd year	Exclusive	60	Desk, platform, fans, tube lights, green board, Chairs, podium.
L-22	Classroom 3rd Year	Exclusive	80	Desk, platform, fans, tube lights, green board, Chairs, podium.
L-23	Class Room	Exclusive	80	Desk, platform, fans, tube lights, green board, Chairs, podium.
New Seminar Hall	Tutorial Room	Seminar and Conference Hall	100	Chairs with pad, table and white board, LCD projector, PC, Wireless Monitoring System, Speakers, AC, Interactive Panel
TE Seminar Hall	M. Tech Class Room 1st Year	Exclusive	50	Chairs with pad, table and green board, podium LCD projector, PC, Wireless Monitoring system
IT Seminar Hall	M. Tech Class Room 2nd Year	Exclusive	50	Chairs with pad, table and green board, podium, LCD projector, PC
First Floor Staff Room (AE Lab)	Faculty room and personal interaction with students	Shared	05	Tables and chairs, fans, tubes, computer with LAN connection
Ground Floor Staff Room (Project Lab)	Faculty room and personal interaction with students	Shared	05	Tables and chairs, fans, tubes, computer with LAN connection
Second Floor Staff	Faculty room and personal interaction with students	Shared	06	Tables and chairs, fans, tubes, computer with LAN connection
Ground Floor	HOD Cabin	Exclusive	01	Tables and chairs, fans, tubes, Almira computers with LAN connection.



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First Floor	Department Library	Exclusive	10	Tables and chairs, fans, tubes, 3 Almira.
Girls Waiting Room	Girl Students	Exclusive	30	Tables and chairs, fans, tubes, cot, mirrors.

### d) Laboratories

Lab Description in Curriculum	Usage	Space (Sq.m), Number of students	List of labs/ number of Experiments	Quality of Instruments	Lab Manuals
Power Electronics Lab	Exclusive	112 sqmt, 20	Industrial Electronics / 12	Excellent	Available
Analog Electronics Lab I	Exclusive	130 sqmt 20 each	1.Electronic Circuit Analysis and Design-I /04 2.Circuits and Networks / 08	Excellent	Available
Analog Electronics Lab II	Exclusive	130 sqmt 20 each	1.Electronic Circuit Analysis and Design-I / 04 2.Circuits and Networks / 08	Excellent	Available
Microprocessor or /Microcontroller Lab	Exclusive	100 sq. mt. 20	1.Microprocessor 12 2.Microcontroller 12	Excellent Intel P-4, 2.66 GHz PCs	Available
Analog Communication+LIC/Advanced Communication Lab	Exclusive	100 sq. mt. 20	1.Analog Communication 12 2.Digital Communication 12	Excellent	Available
Logic Design Lab	Exclusive	100 Sq. mt. 20	12	Excellent	Available
HDL/VLSI/DSP lab	Exclusive	100 Sq. mt 20	1.Digital Signal Processing / 12 2.HDL programming / 12 3. VLSI /10	Excellent HP Desktops	Available
UPS Room	Exclusive	25 sqmt	UPS & Batteries	Excellent	Available

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Project Lab	Exclusive	100 sq. mt	-----	Systems, Projector, CRO, Function Generator, etc..	Available
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31. Number of students receiving financial assistance from college, university, government or other agencies:

### i) UG Students

Sl. No.	Category	No. of Students	Rate of Concession Scholarship	Total amount in Rs.	Academic Year
1	SC	25	40390	1009750	2011-12
2	ST	20	40390	807800	
3	OBC	221	26000	5746000	
1	SC	24	41590	998160	2012-13
2	ST	18	41590	748620	
3	OBC	216	36000	7776000	
1	SC	29	42675	1237575	2013-14
2	ST	36	42675	1536300	
3	OBC	186	16170	3007620	
1	SC	37	42675	1578975	2014-15
2	ST	42	42675	1792350	
3	OBC	311	16170	5028870	
1	SC	29	42675	1237575	2015-16
2	ST	34	42675	1450950	
3	OBC	260	16170	4204200	

### ii) PG Students

Sl. No.	Category	No. of Students	Rate of Concession Scholarship	Total amount in Rs.	Academic Year
1	SC	<b>PG Course was started in the 2013-14</b>			2011-12
2	ST				
3	OBC				
1	SC				2012-13
2	ST				
3	OBC				
1	SC	2	66490	132980	2013-14
2	ST	1	66490	66490	
3	OBC	13	25000	325000	
1	SC	2	65175	130350	2014-15
2	ST	1	65175	65175	
3	OBC	15	26735	401025	

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1	SC	0	0	0	2015-16
2	ST	0	0	0	
3	OBC	3	26560	79680	

32. Details on student enrichment programme (special lectures / workshops /seminar) with external experts

**a) Invited Talk:**

Sl. No.	Title	Guest speaker	Company	Academic Year
1.	Invited Talk for students	Mr. Tarun S Kumar, Mr.Ashok Shetty	M/s. Akuva Infotek Pvt. Ltd. Bangalore	2011-2012
2.	Robotics	Mr. Sourabh kumar Mr. Krishna Teja	Robo Sapiens, India & CCAIC, IIT Delhi	2012- 2013
3.	Problem Solving in Engg. Context	Dr. S. Pilli	Belgaum	2014-2015
4.	Enhancing inner strength	Ms. B K Veena	Prajapati Brahmakumari Ishwari Vishwa Vidyalaya, Rajastahn	2014-2015
5.	Invited talk	Dr. Arun Umarji	IISC, Bangalore	2015-2016

**b) Personality Development Programs:**

Sl. No.	Title	Guest speaker	Company	Academic Year
1.	Personality Development Workshop	Dr. Jangannath Rao	Bangalore	2011- 2012
2.	Personality development	Dr. Jaganath Rao,	Bangalore	2013-2014
3.	Personality development	Dr. Jaganagth Rao	Bangalore	2014-2015
4.	Personality Development for 1st semester	Mr. Trimbak Pawar	Udigir	2015-2016

**c)Entrepreneurial Development Program:**

Sl. No.	Title	Guest speaker	Company	Academic Year
1.	Employment Training program	Mr. Rahul Desai, M/s Monika	Rishicool.com, Mumbai	2011-2012
2.	Employability Training	Rahul Desai, Prakash Tiwari, Dr. Shailaja	Rishicool.com Mumbai	2011-2012
3.	Seminar on Soft Skill	Dr. N. Shivkumar	Corporate Trainer, Bangalore	2012-2013

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4.	Seminar on Employability Skills	S V Venkatesh MD & CEO , Moksha Gundam Alur	RIIT, Mysore	2012-2013
5.	Entrepreneurial Development Program	VTU, RO, Gulbarga	VTU	2014- 2015
6.	Employment Empowerment Program	Mr. Srinidhi,	RIIT, Mysore	2014- 2015
7.	Life skill development for 2nd sem students	Mr. George Salihe Mrs. Shrithi G	Lead Nation Ltd., Bangalore	2014-2015
8.	Employability skills enhancement programme	Mr. Lokesh Mathur Mrs. Prerna,	HireEX, Mumbai	2014-2015
9.	Aptitude Skill	Mr. Raghupati P, Bangalore	The GATE Academy Pvt. Ltd., Bangalore	2014-2015
10.	Entrepreneurship awareness camp	Mr. Jagadish Y.	CEDOK, Dharwar	2015-2016
11.	Leadership & entrepreneurship	Mr. Neelkant	Deshpande Foundation, Hubli	2015-2016

### d) Training for preparation to appear Competitive Exams:

Sl. No.	Title	Guest speaker	Company	Academic Year
1.	Training for Competitive Exams	Mr. Vaibhav Inamdar	CDAC	2011-2012
2.	DAC Campus	BKIT, Bhalki	CDAC	2011-2012
3.	Seminar On GATE Preparation	Mr. Liyaqatali .N. Dafedor	Director GATE Academy Bangalore	2012-2013
4.	MOCK-Test on GATE	Mr. Mukhtar	Manager GATE Academy Bangalore	2012-2013
5.	C-DAC	Mr. Ranjan Raj Mr. Vaibhav Inamdar	C-DAC Pune	2014-2015
6.	GATE awareness & scholarship exam	Mr. Manoj Sharma	TIME, Hyderabad	2014-2015

### e) Workshop/ FDP:

Sl. No.	Title	Guest speaker	Company	Academic Year
1.	AMCAT(Aspiring minds Computer Adaptive Test)	Mr. Sheshank Sinha	Aspiring Minds	2011-2012
2.	Seminar on 3DMAX,	Mr. Pradeep Kallur	MEDINI	2012-2013

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	CATIA, CAD		Bangalore	
3.	Mech-Mantra National Level Symposium	BKIT, Bhalki	Mechanical Engg, Dept	2012- 2013
4.	National level Robotics Workshop	Mr. Sourabh kumar Mr. Krishna Teja	Robosapiens India &CCAIC, IIT Delhi	2012- 2013
5.	Seminar on Campus Recruitment Training Programme (CRT)	Mr. G B Prasad, Chief Trainer and Director of GCP	Global Career Point Hyderabad	2012-2013
6.	Workshop on Rural Reach Program for Primary & High school Teachers	BKIT, Bhalki	CSE Dept	2012-2013
7.	Cyborg- ROBOTICS Workshop	Kyrion Robotics Club New Delhi	Kyrion Robotics Club New Delhi	2012-2013
8.	SPP Exhibition Belgaum	Suresh Angadi College Belgaum	Suresh Angadi College Belgaum	2013-2014

### 33. Teaching methods adopted to improve student learning.

Faculty members adopt various teaching methods to cater to the needs of the entire spectrum of students in a particular class. The following are the frequently used teaching methods by the faculty:

#### UG:

- Classroom teaching using Chalk-Board
- ICT, Tutorials, Question answer Session through practical exercise, projects, and seminars.
- Industrial visits

#### PG:

- Classroom teaching using Chalk-Board
- ICT, Tutorials, Question answer Session through practical exercise, projects, and seminars.
- Working model/ experimental set up
- Seminars

### 34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

NSS UNIT is headed by our department staff and co-ordinates by faculties of various departments of the organization. Every year promptly and with full zeal all the events listed under NSS is organized successfully. Students of our department have participated in various social activities viz.

1. Blood donation camp on various occasions
2. Tree plantation Programme
3. Organizing Poster exhibitions like “to save girl child”, “Save Environment on occasion of Swatch Bharat Abhiyaan”
4. Free health checkup camps for surrounding rural Villages
5. Bringing Awareness about Yoga and its benefits on International Yoga day and many more.

### 35. SWOC analysis of the department and Future plans:

#### **Strength**

1. Highly qualified, experienced and self motivated faculty with high retentions rate.
2. State of the art of labs
3. Active research and development centre, with good number of research publication and relevant facilities.
4. Participation of students and staff in various enrichment/orientation/refresher courses/workshops/conferences.
5. Distinguished alumni placed in high position around the globe
6. Encouraging students to write competitive exams and higher studies.

#### **Weakness**

1. Poor institute to industry and institute to institute interaction
2. Poor publicity

#### **Opportunities**

1. MoU with many other reputed organizations
2. Innovative teaching-learning methods
3. Integrated/Composite program in various specialization
4. Placement in reputed companies/MNC's
5. Generation of funds through R & D and consultancy

#### **Challenges**

1. Tendency of students to pursue degree in cities
2. Intense competition in education
3. Autonomous/Deemed status for the institution

## Evaluative Report of Mechanical Engineering Department

1. Name of the Department: Mechanical Engineering Department
2. Year of Establishment: 1982
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.): **UG (Bachelor of Engineering)**
4. Names of Interdisciplinary courses and the departments/units involved: **Department does not offer any interdisciplinary programs, but the 1<sup>st</sup> year subjects are common to all engineering departments. At UG level Elements of Mechanical Engineering and Computer Aided Engineering Drawing subjects are taught by ME department faculty.**

Name of the Subject with code	Name of Department	Name of the faculty
Process Engineering Economics	Chemical Engineering	Pradeep Mise Asst. Prof. Mech. Engg. Dept.
Computer Aided Machine Drawing	Chemical Engineering	Shantkumar B. Asst. Prof. Mech. Engg. Dept.

5. Annual/ semester/choice based credit system (programme wise):  
Semester Based Credit System:1. **UG-Credits based semester w. e. f. 2015-16**  
**2. Semester scheme for other students**
6. Participation of the department in the courses offered by other departments: **Though interdisciplinary open electives are offered in 3<sup>rd</sup> and 4<sup>th</sup> year but none of the other departments offered.**
7. Courses in collaboration with other universities, industries, foreign institutions, etc.: **Nil**
8. Details of courses/programmes discontinued (if any) with reasons: **Nil**
9. Number of teaching posts:

Teaching post	Sanctioned	Filled
Professors	03	05
Associate Professors	09	03
Assistant Professors	24	27

## SELF STUDY REPORT (SSR)

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D./ M. Phil. etc.,)

Sl. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D Students guided * for the last 4 years
01	Dr. B.P. Yadav	Ph.D	Prof.	Design	32	02
02	Dr. B Anilkumar	Ph.D	Prof.	Thermal Engg.	27	-----
03	Prof. P.N.Divakar	M.E	Prof.	Thermal Engg.	32	-----
04	Prof. M. Chandrashekhar	M.E	Prof.	AME	30	-----
05	Prof. Sanjeev Doijode	M.E (Ph. D)	Prof. & HOD	Heat Power	29	-----
06	Anil Patil	M.Tech (Ph. D)	Assoc. Prof.	Heat Power	28	-----
07	Basawaraj Kawdi	M.E (Ph. D)	Assoc. Prof.	Machine Design	26	-----
08	Ashok G	M.E (Ph. D)	Assoc. Prof.	Prod. Engg.	23	-----
09	Shivkumar B	M.E (Ph. D)	Asst.Prof.	Design Engg.	22	-----
10	Basawaraj Patil	M.E (Ph. D)	Asst.Prof.	Design Engg.	21	-----
11	Jayaraj Siddan	M.Tech	Asst.Prof.	Material Engg.	17	-----
12	Rajshekhar M	M.E (Ph. D)	Asst.Prof.	Design Engg.	20	-----
13	Umakanth M	M.Tech (Ph. D)	Asst.Prof.	Prod. Engg.	8	-----
14	Jeevaraj	M.Tech	Asst.Prof.	Thermal Engg.	7	-----
15	Vijaykumar C	M.Tech (Ph. D)	Asst.Prof.	Thermal Engg.	7	-----
16	Srinath Bhosle	M.Tech (Ph. D)	Asst.Prof.	Prod. Engg.	8	-----
17	Anandkumar T	M.E (Ph. D)	Asst.Prof.	Machine Design	9	-----
18	Ebinezar	M.Tech	Asst.Prof.	Prod. Engg.	4	-----
19	Bheemrao K	M.Tech (Ph. D)	Asst.Prof.	Thermal Engg.	7	-----
20	Raj Reddy	M.Tech	Asst.Prof.	Thermal	4	-----



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		(Ph. D)		Engg.		
21	Adarsh Adeppa	M.Tech (Ph. D)	Asst.Prof.	C I M	4	-----
22	Rajkumar H	M.Tech	Asst.Prof.	Thermal Engg.	2	-----
23	Somshekhar	M.Tech	Asst.Prof.	Machine Design	2	-----
24	Baquer	M.Tech (Ph. D)	Asst.Prof.	Machine Design	2	-----
25	Amar	M.Tech	Asst.Prof.	Thermal Engg.	1.5	-----
26	Shantkumar	M.Tech	Asst.Prof.	CAD/CAM	1	-----
27	Vishnukant	M.Tech	Asst.Prof.	CAD/CAM	1	-----
28	Laxmiputra	M.Tech	Asst.Prof.	Prod. Engg.	fresh	-----
29	Sangamesh D	M.Tech	Asst.Prof.	Machine Design	fresh	-----
30	Santosh Kullur	M.Tech	Asst.Prof.	Machine Design	fresh	-----
31	Sunil Telang	M.Tech	Asst.Prof.	Manufacturin g Sc. & Engg	fresh	-----
32	Veerandra	M.Tech	Asst.Prof.	CIM	fresh	-----
33	Vishwanath	M.Tech	Asst.Prof.	PPE & Energy	fresh	-----
34	Avinash H	M.Tech	Asst.Prof.	Machine Design	fresh	-----
35	Pradeep Mise	M.Tech	Asst.Prof.	CAE	01	-----

### \* Guiding

11. List of senior visiting faculty: **All the classes engaged by regular faculty**
12. Percentage of lectures delivered and practical classes handled (programme wise)  
by temporary faculty : **Nil**
13. Student -Teacher Ratio (programme wise) :

Programme of Study	No. of Students	No. of Teachers	Student -Teacher Ratio
UG	419	35	12:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: Technical Staff – 13 and Ministerial Staff – 07.

	Sanctioned	Filled
Academic Support Staff (technical)	13	13
Ministerial Staff	07	07

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15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.:

Ph. D. faculties	02
Ph. D pursuing faculty	15
PG faculty	18
UG faculty	NIL

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Received

**a) National.**

Sl. No.	Title of the Project	National /International	Funding Agency	Principal Investigator & Co-Investigator	Year	Amount Sanctioned
01	Modernization of IC Engine Lab	National	MODROB ,AICTE New Delhi	Prof.Sanjeev Doijode	2012-13	6.95 Lakhs
02	Modernization of CIM & Automation Lab	National	MODROB ,AICTE New Delhi	Prof.M.Chandrashekar.	2013-14	14.50 Lakhs
03	Modernization of Fluid Mechanics and Machinery Lab	National	MODROB ,AICTE New Delhi	Prof.Anil Patil	2013-14	14.11 Lakhs

**b) International: - NIL**

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received: **KSCST – 03.**

Sl. No.	Project Title	Under Guidance	Amount Sanctioned (Rs)	Year
1	Effective Gym Workout	Prof. Sanjeev Doijode	7500	2013-14
2	Design and Analysis of Solar Powered Domestic Desire Machine	Prof. Rajshekar.M	7500	2013-14
3.	Design Analysis and Development of Hybrid Power Inter Cultivator.	Prof. Rajshekar.M	7000	2015-16

18. Research Centre /facility recognized by the University: **Nil.**

19. Publications: **104**

a) Publication per faculty: **104/35 =2.97**

- Number of papers published in peer reviewed journals (national /International) by faculty and students: - 84
- Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Science Directory, EBSCO host, etc.): - 15
- Monographs\* Chapter in Books\* Books Edited:- Nil
- Books with ISBN/ISSN numbers with details of publishers:- Nil
- Citation Index: - 15
- SNIP:-
- SJR:-
- Impact factor: - **0.5 to 2.413**
- h-index:-

Sl. No.	Year	Papers Published in International Journal	Papers Published in National Journal	Papers Published in International Conference	Papers Published in National Conference	Total
1.	2011-12	06	-----	01	01	08
2.	2012-13	15	01	-----	---	16
3.	2013-14	11	06	-----	08	25
4.	2014-15	25	20	-----	10	55
	Total	57	27	01	19	104

20. Areas of consultancy and income generated: **Nil**

21. Faculty as members in

a) **National committees:**

Sl.No.	Name of the staff	Conference	Position held
1.	Prof. P N Divarkar	NCRIET – 2014 & 2015	Chairman
2.	Prof. Chandrashekhar	NCRIET – 2014 & 2015	Chairman
3.	Prof. Sanjeev Doijode	NCRIET – 2014 & 2015	Chairman
4.	Dr. B P Yadav	NCRIET – 2015	Chairman
5.	Prof. Anil Patil	NCRIET – 2015	Chairman
6.	Prof. Baswaraj Kawdi	NCRIET – 2015	Chairman

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7.	Prof. Ashok G	NCRIET – 2015	Co- Chairman
8.	Prof. Shivkumar Biradar	NCRIET – 2014	Co- Chairman
9.	Prof. B M Patil	NCRIET – 2015	Co- Chairman
10.	Prof. Rajshekhar Mathapati	NCRIET – 2014	Co- Chairman
11.	Prof. Jayaraj Siddan	NCRIET – 2015	Co- Chairman
12.	Prof. Raj Reddy	NCRIET – 2014	Co- Chairman

**b) International Committees: Nil**

**c) Editorial Boards: 12**

Sl.No.	Name of the staff	Board	Position held
1.	Prof. Sanjeev Doijode	IJSER Editorial review board	Committee member
2.	Prof. Basawaraj Kawdi	IJSER Editorial review board	Committee member
3.	Prof. Ashok G	IJSER Editorial review board	Committee member
4.	Prof. Shivkumar Biradar	IJSER Editorial review board	Committee member
5.	Prof. B M Patil	IJSER Editorial review board	Committee member
6.	Prof. Rajshekhar Mathapati	Editorial review of IJSER, IJRATE and CIGR	Committee member
7.	Prof. Umaknath Mathapati	IJSER and IJRET Editorial review board	Committee member
8.	Prof. Jeevraj Samuel	IJSER and IJRET Editorial review board	Committee member
9.	Prof. Vijaykumar C	IJSER Editorial review board	Committee member
10.	Prof. Anandkumar T	IJSER Editorial review board	Committee member
11.	Prof. Raj reddy	IJSER Editorial review board	Committee member
12.	Prof. Adarsh Adeppa	IJSER Editorial review board	Committee member

**d) ISTE Life Membership (LM): 15**

Sl.No.	Name of the staff	ISTE Number
1.	Prof. M Chandrashekhar	LM13862
2.	Prof. Sanjeev Doijode	LM 9394
3.	Dr. B P Yadav	LM25354
4.	Prof. P N Divakar	LM9391
5.	Prof. Anil Patil	LM9389
6.	Prof. Basawaraj Kawdi	LM18510
7.	Prof. Ashok G	LM26897

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8.	Prof. Shivkumar Biradar	LM24515
9.	Prof. B M Patil	LM26898
10.	Prof. Jayraj B Siddan	LM96568
11.	Prof. Rajshekhar Mathapati	LM41564
12.	Prof. Umaknath Mathapati	LM86794
13.	Prof. Jeevraj Samuel	LM86795
14.	Prof. Ebinizer	LM90073
15.	Prof. Adrash Adeppa	LM90625

22. Student projects

- Percentage of students who have done in-house projects including inter-departmental: 90%
- Percentage of students doing projects in collaboration with industries / institutes: 10% (Each project is carried out by four student's maximum in each batch).

23. Awards / Recognitions received by faculty and students:

24. List of eminent academicians and scientists / visitors to the department:

Sl. No.	Name of Faculty	Organization	Purpose of Visit
1	Sachhidanand Das	Scientist, DRDO, Hyderabad.	A Technical Talk on Finite Element Techniques and its industrial applications-Mar. 13
2	Dr. Venkatesh Kulkarni	PG Coordinator, VTU Regional Office Kalburgi.	National level Workshop on "Computational Fluid Dynamics & Multi-Body Dynamics simulation & Analysis" –Mar. 14.
3	Dr. Mohan Kumar	Principal SDM College of Engineering and Technology, Dharwad.	Summer school on Recent practices in CAE & Automation-April 2014.
4	Mr. Subhash Beerge	Solution Manager, Geo-Metric Ltd. Pune	3D-Printing and connected cars-Oct. 2015
5	Dr. Narsimhan	IISc, Bangalore	Solar Cooling-Feb 2016.
6	Dr. N. Siva Prasad	Director, Gitam University Hyderabad.	Faculty Development programme on Practical approaches in CAED & FEM -March 2016

25. Seminars/ Conferences/Workshops organized & the source of funding

a) National

Sl. No.	Name	Organizing Secretaries	Duration	Date	Sponsored
01	National level Symposium "Mech – Mantra".	1. Sanjeev Doijode 2. Anil Patil 3. Basawarai	3 Days.	14 <sup>th</sup> to 16 <sup>th</sup> May 2013.	Self Funding

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		Kawadi 4.Ashok G			
02	National level Workshop on “Computational Fluid Dynamics & Multi-Body Dynamics simulation & Analysis”.	1.Shivkumar Biradar 2. Rajashekar Matpathi	1 Week.	19 <sup>th</sup> to 23 <sup>rd</sup> March 2014.	Self Funding
03	Recent practices in CAE and Automation (Summer School)	1.Jayraj Siddan 2. Umakanth Mathpathi	1 Week.	11 <sup>th</sup> to 15 <sup>th</sup> April 2014.	Self Funding
05	Recent Developments in Renewable Energies – Future Energy(FDP) (DTE Sponsored)	1.Anil Patil 2.Vijayakumar Chanshetty	1 Week.	18 <sup>th</sup> to 22 <sup>nd</sup> Sept2014.	Self Funding
06	Computer Aided Analysis using Altair Hypermesh and MSC – NASTRAN (STTP)	1.Rajashekar Matpathi 2.Shanthakumar Bochare	2 Weeks	5 <sup>th</sup> to 16 <sup>th</sup> Jan.2016	Self Funding
07	Practical Approaches In Computer Aided Design and Finite Element Analysis	1.Rajashekar Matpathi 2. Anand kumar T	1 Week.	30 <sup>th</sup> March to 03 <sup>rd</sup> April 2016	Self Funding

### 26. Student profile programme/course wise: UG: Total Intake 180

Year	Name of the Course/ programme	Applications received	Selected	Enrolled		Pass percentage
				*M	*F	
2011-12	BE Mechanical Engg.	127	127	127	-	85.03
2012-13	BE Mechanical Engg.	115	115	114	1	88
2013-14	BE Mechanical Engg.	109	109	109	-	88
2014-15	BE Mechanical Engg.	116	116	114	2	96

\*M = Male \*F = Female

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### 27. Diversity of Students

Year	Name of the Course	Students from the same state	Students from other States	Students from abroad
2011-12	BE Mechanical Engg.	78	41	----
2012-13	BE Mechanical Engg.	97	34	----
2013-14	BE Mechanical Engg.	161	27	----
2014-15	BE Mechanical Engg.	156	22	----
2015-16	BE Mechanical Engg.	167	09	05

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. :

Academic Year	NET	SLET	GATE	Civil Services	Defense Services
2014-2015	---	-----	01	-----	-----
2011-2012	-----	-----	01	-----	-----

### 29. Student progression

Academic Year	UG to PG	PG to M.Phil.	PG to Ph.D.	Ph.D. to Post-Doctoral	Employed		Entrepreneurship/ Self-employment
					Campus selection	Other than campus recruitment	
2011-12	39	--	--	--	19	61	09
2012-13	30	--	--	--	30	50	06
2013-14	32	--	--	--	30	42	04
2014-15	30	--	--	--	14	66	06
2015-16		--	--	--	39		

### 30. Details of Infrastructural facilities

#### a) Library:

1) Seating capacity: 10 Students

2) Library holdings:

Library Holdings	No. of Volumes
Books	2341
Journals/periodicals	----

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Newspapers	English and Kannada
E-resources	-----
Project reports	150
Seminar reports	475
Hardware Mini Projects	---
Vocational Training Report	---

### b) Internet facilities for Staff & Students

ISP	BSNL
Lease Line	20Mbps
Compression Ratio	1:1
Wi-Fi facility	Yes
Firewall	Cyberoam150NG
Router	Cisco SG300-28

### c) Class rooms with ICT facility: 03 LCD projectors in CAED, CAMD and seminar Hall.

Sl. No	Lab/ Staff Room	Size in Meters	Area in Sq. Meter
<b><u>Ground Floor</u></b>			
01	Fuel Testing Lab	9.2 x 4.4	40.50
02	Energy conversion Lab	32 x 9.2	294.4
03	Staff Room ( A.P)	3.6 x 3.6	12.96
04	Power Room	3.6 x 5	18.00
05	Staff Room ( Prof. C.M)	3.6 x 3.6	12.96
06	Machine shop	35 x 9.2	322.00
07	Tool Room	3.6 x 3.6	12.96
08	Open space in front (power room & staff room )	7.6 x 4	30.4
09	Waranda From ECE Lab to Dept. Lib.	92.5 x 4	370.00
10	HOD Chamber	7.7 x 3.6	27.70
11	HOD Toilet	2.3 x 1.7	3.91
12	Staff Room ( BMP)	3.6 X 3.6	12.96
13	Staff Room ( UM)	3.6 X 3.6	12.96
14	Open Space in front ( HOD & staff room )	7.8 x 3.7	28.86
15	Dept. Library (1)	3.6 x 3.6	12.96
16	Dept. Library (2)	5.1 x 3.6	18.36



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17	Fluid Mechanics Lab	12 x 7.1	85.20
18	Fluid M/c Lab	9 x 8	72.00
19	Staff Toilet (1)	4.8 x 3.8	18.24
20	Staff Toilet (2)	3.8 x 2.4	9.12
21	Open Space	12 x 1.7	20.4
22	Foundry Lab	11.9 x 9.1	108.30
23	Open Space in between( FM. F &F)	9.1 x 4.2	38.22
24	Welding Shop	9 x 8.1	72.90
25	Fitting Shop	20 x 11	220.00
26	Forging Shop	16.3 x 11	179.30
27	W/S Store room	3.6 x 3.6	12.96
28	Staff Room (A.T.)	3.6 x 3.5	12.60
29	Staff Room ( S.B.)	3.6 x 3.5	12.60
29	MESSA Office Room	3.6 x 3.5	12.60
30	Open Space in between(Staff room )	7.5 x 3.7	27.75
31	Waranda From W/S to Staff room	24.3 x 2.4	58.32
32	M.M &M Lab	7.9 x 7.9	62.41
33	Design Lab	8 x 8	64.00
34	Staff Cabin ( B. Kawadi )	3.8 x 2.75	10.45
35	Staff Cabin ( J. S & V.C)	3.8 x 3	11.40
36	HMT Lab	12 x 7.9	94.80
37	CAM&A Lab	12.2 x 7.9	96.38
38	Open Space in between( Design & CAM lab )	10.2 x 3.9	39.80
39	M & MT Lab	7.9 x 7.9	62.41
40	Class Room (L7)	12 x 8	96.00
41	Open Space in between( L7 & MMT lab )	12 x 3.9	46.80
42	Waranda From MMM lab TO M&MT lab	37 x 2.4	88.80
	<b>Total</b>		<b>2865.65</b>
<b><u>First floor</u></b>			
44	Class Room (L1)	7.9 x 7.9	62.41

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45	Class Room (L2)	8.1 x 7.9	64.00
46	Class Room (L3)	12.3 x 7.9	97.17
47	Store Room	4 x 3.8	15.20
48	Open Space	3.9 x 3.8	14.82
49	Class Room (L4)	12.1 x 7.9	95.60
50	Open Space	7.8 x 3.8	29.65
51	Class Room (L5)	12 x 7.9	94.80
52	Class Room (L6)	8 x 7.9	63.20
53	Open Space	7.2 x 3.8	27.36
54	Waranda in front of class rooms	37 x 2.4	88.80
	<b>Total</b>		<b>653.01</b>
<b><u>Second floor</u></b>			
52	CAMD Lab	12.2 x 8	96.60
53	NEW CAMA & CIM Lab	12.2 X 8	96.60
54	Staff Room (Raj. math.)	6.1 x 4.2	25.62
55	Staff Room (Dr. B.P.Y)	6.1 x 4.2	25.62
56	Staff Room (Raj. Reddy )	6.1 x 4.4	26.84
57	CAED Lab	12.6 x 8	100.80
58	Staff Room (B.K ; EBIZER )	7.9 X 7.9	62.41
59	Seminar Hall	7.9 x 7.9	62.41
60	Staff Room	17.9 x 4.2	75.18
61	CNC. M/C Lab	7.9 x 4.2	33.18
62	Open Space in between ( Raj R. & CNC lab)	16 x 1.8	28.80
63	Open Space in front of CAMD lab	10.1 X 4.2	42.42
64	UPS Room	4.7 x 2.5	11.75
65	Waranda in front of CAED Lab	37 X 2.6	96.20
	<b>Total</b>		<b>784.43</b>
	<b>Total Area ( Ground floor + First floor + Second Floor)</b>		<b>4303.09</b>

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### d) Laboratories: Well Equipped Laboratories

Lab Description in Curriculum	Exclusive Use / shared	Space (Sq.m), Number of students	List of labs and number of Experiments	Quality of Instruments	Lab Manuals
Basic Workshop	Exclusive	300 sqmt, 22	1.Fitting-03 jobs 2.Welding-04 jobs 3.Sheet metal-06 jobs	Excellent	Available
Computer aided engineering drawing	Exclusive	100 sqmt, 22 each	Problems on 1.projection of points 2.projection of lines 3. projection of planes 4.projection of solids 5. isometric projections 6.Development	Excellent	Available
Computer Aided Machine Drawing	Exclusive	100 sqmt, 20 each	Problems on Part-A 1.Section of Solids and orthographic views 2. thread forms and fasteners Part-B 1. Keys & Joints 2. Riveted Joints 3.Couplings Part-c 1,Assembly Drawings-07	Excellent	Available
Foundry and forging lab	Exclusive	300 sqmt, 20	1.Testing of moulding sand and core sand-05 Expts. 1.Foundry-03 jobs 2.Forging-03 jobs	Excellent	Available
Machine Shop	Exclusive	322 sqmt, 20	Part A- 04 Jobs Part B- 02 Jobs	Excellent	Available
Metallography And Material Testing	Exclusive	64 Sqmt, 20	Part A-04. Expts. Part B-06 Expts.	Excellent	Available
Mechanical Measurement and metrology	Exclusive	64 Sqmt, 20	Part A 1.Mechanical Measurements-05	Excellent	Available

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			Expts. Part A 1.Metrology-09 Expts.		
Energy Conversion Engineering	Exclusive	344 Sqmt, 20	Part A-05 Expts. Part B -05 Expts.	Excellent	Available
Fluid Mechanics and Machines	Exclusive	160 Sqmt, 20	Part A-04 Expts. Part B -04 Expts.	Excellent	Available
Heat & Mass Transfer	Exclusive	100 Sq. mt 20	Part A-06 Expts. Part B -06 Expts.	Excellent	Available
Computer aided modeling and analysis	Exclusive	200 Sqmt, 20	Part A-03 models analysis. Part B -03 models analysis	Excellent IBM & HP PCs	Available
Design Lab	Exclusive	85 Sqmt, 20	Part A-06 Expts. Part B -06 Expts.	Excellent	Available
Computer Aided Engineering & Automation	Exclusive	200 Sqmt, 20	Part A-03 models Simulations Part B -03 programs Part c -03 experiments	Excellent IBM & HP PCs	Available

31. Number of students receiving financial assistance from college, university, government or other agencies :

Details		Scholarship Assistance	CFY 2015-16 (Rs. in Lakh)	CFY 2014-15 (Rs. in Lakh)	CFY 2013-14 (Rs. in Lakh)	CFY 2012-13 (Rs. in Lakh)	CFY 2011-12 (Rs. in Lakh)
Category	SC	Merit Cum Scholarship Government of Karnataka	2219100	2005725	2304450	1122930	1090530
	ST		981525	1621650	810825	374310	565460
	OBC, GM		5239080	4721640	2053590	7092000	4628000
Total Amount			8439705	8349015	5168865	8589240	6283990

32. Details on student enrichment programmes (special lectures / workshops /

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seminar) with external experts:

Sl. No.	Resource Person	Topic	Date
1.	Sachhidanand Das DRDO – Hyderabad	Finite Element Techniques & its Industrial Applications	02/03/2013
2.	Mr.Venkatesh RIIT - Mysore	Job Empowerment	21/03/2013
3.	Mr.Pradeep Kallar MD-MEDINI AutoDesk Bangalore	Auto Cad software Auto Cad, 3D – Max ETZ	21/03/2013
4.	Prof . S.Jaykumar International School of Business and Media	Personality Development	24/02/2014
5.	Mr.Rajesh.V.D COPEES Technologies – Bangalore	Innovative Product Design	08/09/2014
6.	Mr.Sheshank Nahar Tech –Director ASE –Bangalore	Software Training in CATIA – Pro E, Hypermesh	07/03/2015
7.	Mr.Subhash Birge Solution Manager,Geometric Ltd.Pune.	3D – printing and connected cars	03/10/2015
8.	Dr.Narsimhan Prof.IISc – Bangalore	Solar Cooling	06/02/2016

33. Teaching methods adopted to improve student learning:

1. Power Point Presentation and Showing Animations of different working components.
2. Taking Flow charts of different machineries and Showing their working principles.
3. Giving assignment questions on each topic, etc.
4. Classroom teaching using Chalk-Board.
5. ICT, Tutorials, Question answer Session through practical exercise, projects and seminars.
6. Industrial visits.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

1. Participated in Blood donation camp jointly organized by NSS Unit of BKIT & District Health Centre.
2. Participated in Health checkup camp jointly organized by Life Care Hospital, Udgir & SVE Society.
3. Distributed fruits and bread to patients at Govt. Hospital, Bhalki on the occasion of Dr. B .R. Ambedkar jayanti.

35. SWOC analysis of the department and Future plans:

**Strength:**

- Excellent reputation for high quality programs, faculty and research.
- Commitment of students, faculty and staff towards quality, dedication and work ethics.
- Content beyond syllabus is taught to impart futuristic technical education to improve the students' standards in today's global arena.
- Constant encouragement is given to faculty members for doing research leading to Ph.D.
- Well maintained infrastructure and laboratories.

**Weakness**

- Students are from rural background so emphasis is needed for improving English communication skills.
- Inadequate industries in nearby area.

**Opportunity:**

- Though students belong to rural area but they have abundant hidden talent. This has to be explored so that they could be big assets towards nation building with respect to mission 2020.
- Preparing students for GATE/GRE and PSUs.
- Enter into collaborative projects with industries and other institutes for better exposure to students.
- Strengthen the industry institute interaction for better placement and overall development of students

**Challenges:**

- Risk of losing prominent faculty and staff for genuinely better opportunities at other nearby colleges.
- Growing competition from nearby colleges.
- Collaboration with foreign universities to promote study abroad and student exchange program.
- Since college is located in rural area, average and below average students takes the admissions, hence teaching them and getting good results is a challenging job.

**And future challenges like:**

- To start M.Tech. courses in Design and Thermal Engineering.
- To establish R&D center.
- To establish center of excellence in CAE to impart training to students and general public.

## Evaluative Report of Computer Science and Engineering Department

1. Name of the Department: **Computer Science and Engineering.**
2. Year of Establishment: **1984**
3. Names of Programme / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters, Integrated Ph.D., etc)
  - i) **UG in Computer Science and Engineering (1984)**
  - ii) **PG in Computer Science and Engineering (2013)**
4. Names of Interdisciplinary courses and the departments/units involved:  
The 1<sup>st</sup> year subjects are common to all engineering departments. At UG level Computer Concepts and programming and PCD Lab are taught by CSE department Faculty.
5. Annual/ semester/choice based credit system (Programme wise):  
Semester Based Credit System:
  - a) **UG-Choice based credits system w. e. f. 2015-16**
  - b) **Semester for other scheme students and PG Students**
6. Participation of the department in the courses offered by other departments: **MCA**  
The following subjects of MCA department are offered by following Faculty.

Sl. No	Name of the Faculty	Courses offered	Year
01	Ambika Mangalgi	Software Testing and Practices	2014-2015
02	Ambika Mangalgi	Software Testing and Practices	2013-2014
03	Shilpa Harnale	Discrete Mathematical Structures	2013-2014
04	Sudarshan Adeppa	Unix Shell Programming	2013-2014
06	Bhimrao Patil	Computer Networks	2013-2014
08	Geeta Patil	Computer Graphics	2013-2014
09	Sangamesh Kalyane	Object Oriented modeling and Design	2013-2014
05	Sudarshan Adeppa	Unix Shell Programming	2012-2013
07	Bhimrao Patil	Computer Networks	2012-2013
10	Sangamesh Kalyane	Object Oriented modeling and Design	2012-2013
11	Sudarshan Adeppa	Problem Solving Using C	2011-2012

7. Courses in collaboration with other universities, Industries, foreign institutions, etc.: **Yes**

Sl.No.	Name of the Organization	Details	Year
1.	IIT, Roorkee	Expression of Interest(EOI) for Virtual Labs Nodal Centre (VLNC)	2014-15
2.	IIIT, Hyderabad	Expression of Interest(EOI) for	2014-15



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		Virtual Labs Nodal Centre (VLNC)	
3	Amrita Vishwa Vidyapeth, Amirtapuri, Kolam	VLABS	2014-15
4	Preva Systems, Bangalore	Internet of Things, Centre of Excellence	2015-16
5	Pro-SIM R & D Pvt. Ltd., Bangalore	Pro-SIM learning centre	2015-16
6	COPEs Tech. India Pvt. Ltd., Bangalore	COPEs Tech. India Pvt. Ltd.,	2015-16
7	MEDINI, Bangalore	MEDINI Bangalore	2012-13
8	SPHR solutions, Mumbai	SPHR solutions Pvt. Ltd. Mumbai	2011-12

8. Details of courses /programme discontinued (If any) with reasons: NIL

9. Number of teaching posts:

Teaching Post	UG		PG	
	Sanctioned	Filled	Sanctioned	Filled
Professor	02	01	01	01
Associate Professor	06	03	01	01
Assistant Professor	19	24	01	01

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt.

/Ph.D. / M. Phil. etc.)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students Guided* for the last 4 years
Dr.Arvind Bhavikatti	Ph.D.	Professor	Material science	29	08
Hanmanth Kulkarni	M.Tech (Ph.D)	Assoc. Prof.	CSE	24	--
Rajkumar B Patil	M.Tech (Ph.D)	Assoc. Prof.	CSE	16	--
Vinayak G Biradar	M.Tech (Ph.D)	Assoc. Prof.	CSE	18	--
Shivakumar A.	M.Tech (Ph.D)	Assoc. Prof.	CSE	14	--
Mallikarjun B. Mugali	M.Tech (Ph.D)	Asst. Prof.	CSE	18	
Geeta V Patil	M.Tech (Ph.D)	Asst. Prof.	CSE	11	
Nagashetty B Kolar	M.Tech (Ph.D)	Asst. Prof.	CSE	10	--
Romy Sinha	M.Tech	Asst. Prof.	CSE	06	--
Md Rafeeq	M.Tech (Ph.D)	Asst. Prof.	CSE	12	--

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Vishal R More	M.Tech (Ph.D)	Asst. Prof.	CSE	07	--
L M Deshpande	M.Tech (Ph.D)	Asst. Prof.	CSE	16	--
Shilpa Harnale	M.Tech (Ph.D)	Asst. Prof.	CSE	10	--
Sangamesh Kalyane	M.Tech (Ph.D)	Asst. Prof.	CSE	04	--
Sudarshan Adeppa	M.Tech	Asst. Prof.	CSE	04	--
Ambika Mangalgi	M.Tech (Ph.D)	Asst. Prof.	CSE	06	--
Sushma Priyadarshini	M.Tech	Asst. Prof.	CSE	09	--
Sangamesh Gama	M.Tech (Ph.D)	Asst. Prof.	CSE	04	--
Bhimrao Patil	M.Tech (Ph.D)	Asst. Prof.	CSE	04	--
Chamundeshwari	M.Tech (Ph.D)	Asst. Prof.	CSE	05	--
Swamy Vivekanand	M.Tech	Asst. Prof.	CSE	02	--
Priyanka C Patil	M.Tech	Asst. Prof.	CSE	02	--
Shweta Kalappa	M.Tech	Asst. Prof.	CSE	02	--
Saurabh Suman	M.Tech	Asst. Prof.	CSE	02	--
Santosh Patil	M.Tech	Asst. Prof.	CSE	02	--
Omprakash B	M.Tech	Asst. Prof.	CSE	02	--
Aruna Shankerappa	M.Tech	Asst. Prof.	CSE	02	--
Jagdanna Bandeppa	M.Tech	Asst. Prof.	CSE	02	--
Ambika Rajshekar	M.Tech	Asst. Prof.	CSE	02	--

\* = guiding

11. List of senior visiting faculty: **All classes are handled by regular faculty members**

12. Percentage of lectures delivered and practical classes handled by temporary faculty:

**All classes are handled by regular faculty members only.**

13. Student -Teacher Ratio (programme wise)

Programme of Study	No. of Students	No. of Teachers	Student -Teacher Ratio
UG	190	27	<b>7:1</b>
PG	16	03	<b>6:1</b>

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled.

Post	Sanctioned	Filled
Academic Support Staff (technical)	13	13
Administrative Staff	06	04

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Name of the Tech Staff	Designation (Pay-scale)	Exclusive /Shared Work?	Date of Joining	Qualification		Other Technical Skills gained?
				At Joining	Now?	
Manoj Khandre	Programmer	Exclusive	1/7/2001	M.Sc	M.Sc	
Santosh Tapsale	Programmer	Exclusive	1/1/2005	B.Sc	M.Sc	
Baswaraj Nagure	Programmer	Exclusive	23/03/2009	MCM	MCM	
Sanjeev Kankatte	Programmer	Exclusive	17/02/2010	M.Sc	M.Phil	
Sharanappa	Foreman	Exclusive	01/01/2015	Diploma	----	
A.Y.Shedole	Instructor	Exclusive	11.06.1988	Voc. DCT	Voc.	
Nagaraj C	Instructor	Exclusive	4.8.2010	Diploma	Diploma	
Chandrakant	Instructor	Exclusive	14.8.2008	BCA	BCA	APTech
Prashant Biradar	Instructor	Exclusive	16-09-2008	B.Sc.	B.Sc.	H/W, N/W
Navnath Kulkarni	Instructor	Exclusive	10/03/2010	Diploma	Diploma	
Nikhil Talwade	Instructor	Exclusive	20/01/2015	Diploma	Diploma	
Kum.Rekha	Instructor	Exclusive	27/01/2015	Diploma	Diploma	
Kum.Sweta A	Instructor	Exclusive	27/01/2015	Diploma	Diploma	

### 15. Qualifications of teaching faculty with D.Sc./ D.Litt./ Ph.D./ M.Phil. / PG.

Ph. D. faculties	<b>01</b>
Ph. D pursuing faculty	<b>16</b>
PG faculty	<b>12</b>

### 16. Number of faculty with ongoing projects from a) National b) International funding Agencies and grants received. **NIL**

### 17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total Grants received: **Yes**

Sl. No.	Funding Agency	Title of Project	Year	Amount Sanctioned	Principal Investigator
1.	KSCST Bengaluru	Mahatama Gandhi National Rural Employment Guarantee act (MGNREGA) program administrator	2014-15	Rs. 3000.00	Shivkumar A
2.	KSCST Bengaluru	Security analysis of single sign-on mechanism for distributed computer network	2013-14	Rs. 3000.00	Sudarshan A
3.	KSCST Bengaluru	Consistency as a service: Auditing cloud consistency	2013-14	Rs. 3000.00	Shilpa H
4.	KSCST Bengaluru	Alert : An Anonymous Location Based Efficient Routing Protocol In	2012-13	Rs.4500.00	Shivkumar A

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		MANETS.			
5.	KSCST Bengaluru	Requisite Trust Based Secure Routing Protocol for MANETS	2011-2012	Rs.5000.00	Shivkumar A
6.	KSCST Bengaluru	Towards energy efficient trust system through watching optimization for WSNs	2011-2012	Rs. 3000.00	Geeta Patil

18. Research Centre /facility recognized by the University:

Research center of E&CE is being used for all research activities of the Department.

19. Publications: -102

- Publication per faculty: - 07
- Number of papers published in peer reviewed journals (national /International) by faculty and students: - 44
- Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Science Directory, EBSCO host, etc.): - 06
- Monographs
- Chapter in Books
- Books Edited:-Nil
- Books with ISBN/ISSN numbers with details of publishers: Nil
- Citation Index: -43
- SNIP : - Nil
- SJR: - Nil
- Impact factor: - 0.5 to 2.5
- h-index: - Nil

Year	National Journals	National Conference	International Journal	International Conference	Total
2011-12	2	4	6	4	16
2012-13	4	3	4	3	14
2013-14	8	14	10	7	39
2014-15	5	11	12	7	35
<b>Total</b>	19	32	32	21	104

20. Areas of consultancy and income generated: **NIL**

21. Faculty as members in

<b>National and International Committees</b>	<b>Editorial Board</b>	<b>Life Membership</b>	<b>Reviewer Board</b>	<b>Fellowship</b>
ISTE (Indian Society for Technical Education)	----	6	----	----
IETE(The Institution of Electronics and Telecommunication Engineers)	----	15	----	2
IACSIT(International Association of Computer Science and Information Technology)	05	3	----	----
IAENG (International Association of Engineers)	----	3		----
IJSER(International Journal of Scientific and Engineering Research)	----	----	3	----
<b>Total</b>	<b>05</b>	<b>27</b>	<b>02</b>	<b>02</b>

22. Student projects

a) **UG:**

- Percentage of students who have done in-house projects including inter-departmental: 90%
- Percentage of students doing projects in collaboration with industries / institutes: 10%  
(Each project is carried out by four student's maximum in each batch).

b) **PG:**

- Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies:75 %
- Percentage of students who have done in-house projects including inter-departmental: 25%

23. Awards / Recognitions received by faculty and students:

**Students:**

<b>Sl. No</b>	<b>Name of the Students</b>	<b>Event</b>	<b>Details of the Award</b>	<b>National /International</b>	<b>Cash Prize</b>	<b>Year</b>
1	Ropangshu Sharma & S.Nagendra	TCS-Techbytes Quiz	Regional Winner	National	Rs.12000	2013
2	Pawan Pola & Ashay Mishra	TCS-Techbytes Quiz	Runner-up	National	Rs. 8000	2015
3	Ankit B & Sagar Jaiswal	TCS-Techbytes Quiz	Regional Winner	National	Rs.12000	2016

## 24. List of eminent academicians and scientists / visitors to the Department.

Sl. No.	Name of Faculty	Organization	Purpose of Visit
1)	Dr. Venu Govindraju	University of Buffalo, USA.	International Conference on Communication, Computation, Control & Nanotechnology (ICN)-2011
2)	Dr. Nagabhushan	Mysore University, Mysore.	International Conference on Communication, Computation, Control & Nanotechnology (ICN-2011)
3)	Dr. Babu M	IDRBT Hyderabad.	International Conference on Communication, Computation, Control & Nanotechnology (ICN-2011)
4)	Dr. Sharat Chandra C	IBM, USA.	International Conference on Communication, Computation, Control & Nanotechnology (ICN-2011)
5)	Dr. IshwarSethi	Ookland University, USA.	International Conference on Communication, Computation, Control & Nanotechnology (ICN-2011)
6)	Dr. M A R M Fernando	Peradeniya University, Kandy, Sri Lanka	International Conference on Communication, Computation, Control & Nanotechnology (ICN-2011)
7)	Dr. B Chakravarthy	Jawaharlal Nehru Technological University, Hyderabad.	International Conference on Communication, Computation, Control & Nanotechnology (ICN-2011)
8)	Mr. Krishanan	MIT, Delhi.	International Conference on Communication, Computation, Control & Nanotechnology (ICN-2011)
9)	Dr. Savita Sonoli	RYMC, Bellary	Biomedical Signal Process sing on 12-03-2016
10)	Dr. K.Prabhushetty	SGBIT, Belgaum	Signal Processing on 12-03-2016
11)	Dr. Basavaraj Amarapur	PDACE, Gulbarga	Image Processing on 01-02-2015
12)	Dr.Subhash Kulkarni	PESSE, Bangalore	Image Processing on 01-02-2015
13)	Dr. Basvaraj Amarapur	PDACE, Gulbarga	Image Processing on 01-02-2015

25. Seminars/ Conferences/Workshops organized & the source of funding

**a) National**

Sl. No.	Event	Topic	Date	Duration	Organizing Secretaries	No. of Participants	Resource Person	Funding/Sponsors
1	Workshop	Ethical hacking	1/3/2013 to 2/3/2013	2 Days	Vinayak G Biradar Hanumant Kulkarni	70	Sahil Mahaj N	BKIT, Bhalki
2	Training program for High School Students of Bhalki	Internet World	18/11/13 to 21/11/13	04 Days	Rajkumar Patil & Geeta Patil	500	Geeta Patil Sangamesh k Sangamesh G Ambika M	BKIT, Bhalki
3	WORKSHOP	Hands on Networking 2014 (HONI-2014)	9/3/14 to 10/3/14	2 Days	Mallikarjun Mugli & Vinayak Biradar	112	Piyush Katariya SATISH .H CISCO ACM IIT DELHI	BKIT, Bhalki
4	Special Talk	Ethical Hacking	11/3/2014	1 Day	Mallikarjun Mugli & Vinayak	65	Prof Prateek from Chennai	BKIT, Bhalki
5	Summer School	Fundamentals of C & C++	24/4/2014 To 28/4/2014	5 Days	H.S Kulkarni & Vishal M	30	S. R Tandale Basavaraj P Rajkumar Patil	IETE
6	Workshop	Web Designing	22/8/2014 to 24/8/2014	3 Days	Rajkumar Patil & Geeta Patil	45	Geeta Patil Vishal More	ISTE
7	FDP	Advances in implementation of computer	22/7/2015 To 24/7/2015	3 Days	H.S Kulkarni & Md. Rafeeq	25	Md Rafeeq Sangamesh k Sangamesh G	IETE

		networks						
8	THREE Day's National Workshop	E-Commerce	30/10/2015 To 1/11/2015	3 Days	Vinayak Biradar Rajkumar Patil	48	Prof. A M Bhavikatti Prof. L M Deshpande Prof. Vishal More	BKIT, Bhalki
9	Refresher Course	Computer Basics & M S Office	08/12/2015 To 17/12/2015	10 Days	Vishal More & Sangamesh kalyane	60	Prof Rajkumar Patil Dr. A M Bhavikatti	BKIT, Bhalki

**B) International**

Sl.No	Event	Title	Date From-To	Duration	Organizer	No. of participant s/ Papers	Resource person	Sponsors
1	International Conference	ICN-2011	23/09/2011 To 25/09/2011	3 Days	Shivkumar Sunilkumar G.P.Tiwari	450	Dr.Babu mehetry Dr. T Nagbhusan Dr. Venu govindraj Dr. sureh P Dr. B. Anami	ISTE, IETE, MGSSK, VTU. Belgavi



26. Student profile - programme/course wise:

**UG:-120 Intake**

Year	Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
				*M	*F	
2011-12	BE (CSE)	72	72	28	44	93
2012-13	BE (CSE)	82	82	31	51	96
2013-14	BE (CSE)	94	94	25	69	86
2014-15	BE (CSE)	89	89	25	64	88

**PG: Total intake 18w.e.f. 2013-2014**

Year	Name of the Course/programme	Applications received	Selected	Enrolled		Pass Percentage
				*M	*F	
2011-12	M.Tech (CSE)	-	-	-	-	--
2012-13	M.Tech (CSE)	-	-	-	-	--
2013-14	M.Tech (CSE)	18	18	09	09	100
2014-15	M.Tech (CSE)	14	14	06	08	100

**\*M=Male \*F=Female**

27. Diversity of Students

**UG**

Year	Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
2011-12	BE (CSE)	80.5	19.4	-
2012-13	BE (CSE)	90.2	19.5	1.21
2013-14	BE (CSE)	91.4	4.25	4.25
2014-15	BE (CSE)	96.6	3.37	-

**PG**

Year	Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
2011-12	M.Tech (CSE)	-	-	-
2012-13	M.Tech (CSE)	-	-	-
2013-14	M.Tech (CSE)	83.3	16.6	-
2014-15	M.Tech (CSE)	100	00	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. ?

Academic Year	NET	SLET	GATE	Civil Services	Defense Services
2014-2015	---	-----	25	-----	-----
2013-2014			34	1	-----
2012-2013	----	-----	15	3	2
2011-2012	-----	-----	5	2	-----

29. Student progression

Year	2011-12	2012-13	2013-14	2014-15
Student progression	Against % enrolled	Against % enrolled	Against % enrolled	Against % enrolled
UG to PG	12%	21%	10%	26%
PG to M.Phil.	NIL	NIL	NIL	NIL
PG to Ph.D.	NIL	NIL	NIL	NIL
Ph.D. to Post-Doctoral	NIL	NIL	NIL	NIL
Employed	27%	59%	20%	29%
-Campus selection	61%	20%	70%	45%
-Other than campus recruitment				
Entrepreneurship/Self-employment	NIL	Nil	NIL	NIL

30. Details of Infrastructural facilities

a) Library

- i) Seating capacity: **15 Students**
- ii) Library holdings:

Sl.No	Details	No of copies
1	Number of books	1800
2	Number of titles	165
3	Number of main project reports	597
4	Number of mini project reports	277
5	Number of seminar reports	322
6	Number of CD's	322

## b) Internet facilities for Staff &amp; Students

<b>ISP</b>	BSNL
<b>Lease Line</b>	20Mbps
<b>Compression Ratio</b>	1:1
<b>Wi-Fi facility</b>	Yes
<b>Firewall</b>	Cyberoam150NG
<b>Router</b>	Cisco SG300-28

## c) Class-rooms with ICT facility

<b>Room Description</b>	<b>Usage</b>	<b>Shared/ Exclusive</b>	<b>Capacity</b>	<b>Rooms equipped with PC, internet, book rack, meeting space, etc.</b>
<b>L14</b>	Class room 3 <sup>rd</sup> Year	Exclusive	65	Desk, platform, fans, tube lights, black board.
<b>L16</b>	Class room 3 <sup>rd</sup> year	Exclusive	65	Desk, platform, fans, tube lights, black board..
<b>L17</b>	Class room 2 <sup>nd</sup> year	Exclusive	65	Desk, platform, fans, tube lights, black board.
<b>L27</b>	Class room 4th Year	Exclusive	65	Desk, platform, fans, tube lights, black board, LCD projector.
<b>L30</b>	Class room 4 <sup>th</sup> year	Exclusive	65	Desk, platform, fans, tube lights, black board.
<b>CSE seminar hall</b>	M.Tech 1 <sup>st</sup> year	Seminar and Conference	180	Desk, platform, fans, tube lights, white board, Chairs, podium, LCD projector, interactive panel
<b>Hi-Tech Lab</b>	M.Tech 2 <sup>nd</sup> year	Project work	40	Desk, fans, AC, tube lights, white board, Chairs, podium, LCD projector.
<b>Edusat</b>	Tutorial Room	Seminar and Conference	100	Chairs with pad, table and black board, LCD projector, PC.

## d) Laboratories

## SELF STUDY REPORT (SSR)

Name of the Lab	Major Equipments	Quantity	Amount Spent Till Date	Budget for the current year	Budget for consumable
Lab-I Network Lab / Project Work	HP DX 2480 Intel core duo Duo	38 No.s	1072453	625000	15000
	HP-LaserJet All-	1	13500		
	LG Air	4	80000		
Lab-II Data Structure / ADA Lab	HP Pro i5 4GB RAM /500 GB HDD /18.5" TFT	25	796612.75	625000	15000
	HP1010	01	7500		
	AC LG	04	80000		
Lab-III Web Programing Lab / Microprocessor Lab	HP DX 2480 Intel core duo	20	519230	625000	15000
	HP-LaserJet All-in-one 3020	1	13500		
Lab-IV SS & OS Lab / Computer	HP Pro i5 4GB RAM /500 GB	25	944312.75	625000	15000
	HP Laser Jet 3020	1	13500		
Lab-V Database Applications / USP Lab	HP DX 2480 Intel core duo	16	379531	625000	15000
	HP Laserjet All-in-one 3020	1	13500		
Lab-VI Comp. Prog. Lab	Assemble	25	612500	625000	15000
	HP Laserjet All-in-one 3020	1	13500		
Lab-VII Browsing Centre	Assemble	23	599000	625000	15000
	HP Laserjet All-in-one 3020	1	13500		
Server Room	IBM X-226 Intel	3	897000		15000
	Compaq Presario	02	78000		
	Acer 18.5 LCD	05	40000		
	LAN,POE		521807		
Total Rs.			6708946.5	5000000	120000

31. Number of students receiving financial assistance from college, university, government or other agencies:

**UG Program**

Sl No	Category	Year	No. of Students	Rate of Concession Scholarship	Total Amount
1	SC	2011-12	12	40390	484680
2	ST		6	40390	242340
3	OBC		134	26000	3484000
1	SC	2012-13	12	41590	499080
2	ST		5	41590	207950
3	OBC		127	36000	4572000
1	SC	2013-14	22	42675	938850
2	ST		17	42675	725475
3	OBC		72	16170	1164240
1	SC	2014-15	26	42675	1109550
2	ST		12	42675	512100
3	OBC		131	16170	2118270
1	SC	2015-16	22	42675	938850
2	ST		8	42675	341400
3	OBC		158	16170	2554860

**PG Program\***

Sl No	Category	Year	No. of Students	Rate of Concession Scholarship	Total Amount
1	SC	2013-14	1	66490	66490
2	ST		0	0	0
3	OBC		12	25000	300000
1	SC	2014-15	3	64175	192525
2	ST		0	0	0
3	OBC		12	25000	300000
1	SC	2015-16	1	65175	65175
2	ST		0	0	0
3	OBC		8	25000	200000

**\* PG Course was started in the year 2013-14.**

32. Details on student enrichment programme (special lectures / workshops /seminar) with External experts

**\* Invited Talk:**

## SELF STUDY REPORT (SSR)

Sl.No.	Title	Guest speaker	Company	Year
1.	Invited talk	Dr. Arun Umarji	IISC, Bangalore	29 Jan. 2016
2.	Problem Solving in Engg Context	Dr. S. Pilli	Belgaum	14 Feb. 15
3.	Enhancing inner strength	B K Veena	Prajapat iBrahmakumarilshwari VishwaVidyalaya, Rajastahn	24 Feb. 15
4.	Robotics	Sourabhkumar& Krishna Teja	Robo Sapiens, India & CCAIC, IIT Delhi	2013
5	Invited Talk for students	Tarun S Kumar, Ashok Shetty	M/s. AkuvaInfotek Pvt. Ltd. Bangalore	05 May 2012

### Personality Development Programs:

Sl. No.	Title	Guest speaker	Company	Year
1.	Personality Development for 1st semester	Trimbak Pawar	Udgir	18 Nov 2015
2.	Personality development	Dr. Jaganath Rao, Bangalore	Bangalore	29 - 30 Apr.15
3.	Personality development	Dr. Jaganagth Rao	Bangalore	2014
4.	Personality Development Workshop	Dr. Jagannath Rao, Bangalore	Bangalore	17 Feb. 2012
5.	Personality Development Workshop	Dr. Jangannath Rao, Bangalore	BKIT, Bhalki	17 Feb. 2012

### Entrepreneurial Development Program:

Sl. No.	Title	Guest speaker	Company	Year
1.	Enterpreneurial Development Program	VTU, RO, Gulbarga	VTU	13 March, 2015
2.	Employment Empowerment Program	Srinidhi,	RIIT, Mysore	27-28 March, 2015
3.	Lead Programme	Neelkant	Deshpande foundation Hubli	30-31 March 2016
4.	Entrepreneurship awareness camp	Jagadish Y.	CEDOK, Dharwar	27 - 29 Feb'16
5.	Leadership &	Neelkant	Deshpande	4 Nov

	entrepreneurship		Foundation, Hubli	2015
6.	Employment Empowerment Programme	BKIT, Bhalki	RIIT, Mysore	27 & 28 Mar' 15
7.	Life skill development	Mr. George Salihe & Shrithi G	Lead Nation Ltd., Bangalore	29 - 30 Apr'15
8.	Employability skills enhancement programme	Mr. Lokesh Mathur & Prerna, Mumbai	HireEX, Mumbai	16 -25 Sep. 2014
9.	Aptitude Skill	Mr. Raghupati.P,Bangalore	The GATE Academy Pvt. Ltd., Bangalore	30 Sep.2014
10	Seminar on Employability Skills	S V Venkatesh MD & CEO , Moksha GundamAlur	RIIT, Mysore	21-03-2013
11.	Seminar on Soft Skill	Dr. N. Shivkumar	Corporate Trainer, Bangalore	2012
12.	Soft Skill Seminar	Dr.Shivkumar, Bangalore	Bangalore	18 Oct. 2012
13.	Employment Training program	Mr. Rahul Desai, M/s Monika, Mumbai	Rishicool.com, Mumbai	12-17 Sep. 2011
14.	Employability Training	Rahul Desai, Prakash Tiwari, Dr. Shailaja	Rishicool.com Mumbai	12 to 17 Sep 2011

**Training for preparation to appear Competitive Exams:**

Sl. No	Title	Guest Speaker	Company	Year
1.	C-DAC	Ranjan Raj Vaibhav Inamdar	C-DAC Pune	2014
2.	GATE Awareness & Scholarship exam	Manoj Sharma	TIME, Hyderabad	2014
3.	Training for Competitive Exams	CDAC	CDAC	19-04-2012
4.	Seminar On GATE Preparation	Liyaqatali N. Dafedor	Director GATE Academy Bangalore	05-10-2012
5.	MOCK-Test on GATE	Mukhtar	Manager GATE Academy Bangalore	05-10-2012
6.	DAC Campus	BKIT, Bhalki	CDAC	19 April. 2012

**33. Teaching methods adopted to improve student learning.**

Faculty members adopt various teaching methods to cater to the needs of the entire spectrum of students in a particular class. The following are the frequently used teaching methods by the faculty:

**UG:**

- Classroom teaching using Chalk-Board
- ICT, Tutorials, Question answer Session through practical exercise, projects, and seminar
- Industrial visits
- Power point presentation (PPT) in the class room.
- PPTs are presented unit wise and print outs of PPTs are given to students for reference.

**PG:**

- Classroom teaching using Chalk-Board
- ICT, Tutorials, Question answer Session through practical exercise, projects, and seminars.
- Working model/ experimental set up
- Seminars
- Power point presentation (PPT) in the class room PPTs are presented module wise.

**34. Participation in Institutional Social Responsibility (ISR) and Extension activities:**

NSS UNIT is headed by our department staff and co-ordinates by faculties of various departments of the organization. Every year promptly and with full zeal all the events listed under NSS is organized successfully. Students of our department have participated in various social activities viz.

- a. Blood donation camp on various occasions
- b. Tree plantation Programme
- c. Organizing Poster exhibitions like “to save girl child”, “Save Environment on occasion of Swatch Bharat Abhiyaan”
- d. Free health checkup camps for surrounding rural Villages
- e. Bringing Awareness about Yoga and its benefits on International Yoga day and many more.

**35. SWOC analysis of the department and Future plans.**



**1. Strengths**

- a) Dedicated faculty members having good teaching experience
- b) Well established infrastructure
- c) Good environment for the overall development of students
- d) Effective monitoring system in place for students
- e) Most stable faculty in the region
- f) Strong presence of alumni in industry at national and international level

**2. Weakness**

- a) Communication skill of students
- b) Lack of public transportation
- c) Effect on culture of students of nearby rural area
- d) Lack of advanced training programs to faculty
- e) Lack of effective R&D facilities

**3. Opportunities**

- a) Scope for creation of R&D opportunities in campus
- b) Scope for advanced teaching & learning aids in class room
- c) Scope for educational collaboration with international university/Industries
- d) Scope for quality research publication
- e) Scope for advanced infrastructural facilities

**4. Challenges**

- a) Increase in number of engineering colleges in the nearby region
- b) Poor quality of students being admitted
- c) Increasing number of low quality institutions
- d) Institution is isolated and situated in rural area
- e) Increasing indiscipline among students of the college
- f) Less no of students getting eligible for placement drive.

**5. Future Plans**

- a) Start a research center in the Department.
- b) To have a MoU with institutions of national importance.

**EVALUATIVE REPORT OF CIVIL ENGINEERING**

1. Name of the Department: **Civil Engineering**
2. Year of Establishment: **1982**
3. Names of Programme / Courses offered (UG, PG )
  - i) **B.E. in Civil Engineering**
  - ii) **M. Tech. in Geotechnical Engineering**
  - iii) **M. Tech. in Water Resources Management**
4. Names of Interdisciplinary courses and the departments/units involved: **Department does not offer any interdisciplinary programs. But the I<sup>st</sup> year subjects are common to all engineering departments. At UG level Elements of Civil Engineering & Engineering Mechanics subject is taught by CIVIL Department faculty.**

Name of the Subject with code	Name of Department	Name of the faculty
HSIDD 10CV 65	Civil Engineering Dept. Shetty Institute of Technology, Kalburgi.	Prof. S.V. Biradar
Applied Engineering Geology	Civil Engineering Dept. BEC, Basavakalyan	Prof. S.Y.Awali

5. Annual/ semester/choice based credit system (Programme wise):  

Semester Based Credit System: 1. **UG-Credits based semester w. e. f. 2015-16**

2. **PG-Semester System**
6. Participation of the department in the courses offered by other departments: **NIL**
7. Courses in collaboration with other Universities, Industries, Foreign Institutions, etc.: **NIL**
8. Detail of courses /programme discontinued (If any) with reasons: **NIL**

## SELF STUDY REPORT (SSR)

### 9. Number of teaching posts:

Teaching Post	UG		PG	
	Sanctioned	Filled	Sanctioned	Filled
Professors	02	01	02	01
Associate Professors	04	03	02	01
Asst. Professors	18	18	02	02

### 10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt.

/Ph.D. / M. Phil. etc.)

Name	Qualification	Designation	Specialization	No of Years of Experience	No of Ph.D. Students guided for the last 4 years
S.V. Biradar	M. Tech (Ph.D.)	Prof.	Irrigation & Hydraulics	30	--
Dr. Arun Kumar	Ph.D.	Prof.	S.M.& F.E.	30	--
C. K.Patil	M. Tech	Assoc. Prof	Env. Engg	29	--
D.K.Kanna	M. Tech (Ph.D.)	Asso. Prof.	Water Resources Engg.	28	--
A. Pandurang	M. Tech (Ph.D.)	Asso. Prof.	Env. Engg.	27	--
Omkar Biradar	M. Tech	Asso. Prof.	Construction Technology	29	--
S.Y . Awali	M.Sc.	Asst. Prof.	Geology	34	--
M.D. Honna	M. Tech.	Asst. Prof.	Structural Engg.	21	--
Ramesh Bashetty	M. Tech.	Asst. Prof.	Geotechnical Engg.	05	--
Nagraj Bacha	M. Tech.	Asst. Prof.	Geotechnical	21	--
Santosh Dhadde	M. Tech.	Asst. Prof.	Structural Engg.	02	-
Md. Khaja	M .Tech. (Ph. D)	Asst. Prof.	Earthquake Engg.	07	-
Ullas Jaje	M. Tech.	Asst. Prof.	Transportation Engg.	02	-
Surekha Shaka	M. Tech. (Ph. D)	Asst. Prof.	Structural Engg.	02	-
Gangambika Patil	M. Tech.	Asst. Prof.	Structural Engg.	02	-

## SELF STUDY REPORT (SSR)

Goudappa Biradar	M. Tech.	Asst. Prof.	Structural Engg.	03	-
Winny Joseph	M. Tech.	Asst. Prof.	Geotechnical Engg.	01	-
Kiran J.	M. Tech.	Asst. Prof.	Geotechnical Engg	01	-
Chandrashekhar	M. Tech.	Asst. Prof.	Transportation Engg.	01	-
Nagesh Mustapure	M. Tech.	Asst. Prof.	Cad in Civil Engg.	01	-
Praveen Hatkar	M. Tech.	Asst. Prof.	Geotechnical Engg	01	-
Jagdish Swamy	M. Tech.	Asst. Prof.	Transportation Engg	01	-
Poojeshwari Kotgi	M. Tech.	Asst. Prof.	Geotechnical Engg	01	-
Vishnu Kulkarni	M. Tech.	Asst. Prof.	Geotechnical Engg	01	-
Santosh P.	M. Tech.	Asst. Prof.	Geotechnical Engg	01	-
Akshay Kumar	M. Tech.	Asst. Prof.	Geotechnical Engg	01	-

11. List of senior visiting faculty: **All classes are handled by regular faculty members.**

12. Percentage of lectures delivered and practical classes handled by temporary faculty:

**All classes are conducted by regular faculty members only.**

13. Student -Teacher Ratio (programme wise)

Programme of Study	No. of Students	No. of Teachers	Student-Teacher Ratio
UG+PG	359+22=381	26 + 2 ( F. Y.)	<b>15:1</b>

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled.

Staff Type	Sanctioned	Filled
Academic Supporting Staff (Technical)	8	8
Administrative Staff	SDA 01	1

## SELF STUDY REPORT (SSR)

15. Qualifications of teaching faculty with D.Sc./ D.Litt./ Ph.D./ M. Phil. / PG.

Ph. D. faculty	01
Ph. D pursuing faculty	05
PG faculty	22

16. Number of faculty with ongoing projects from a) National b) International funding

Agencies and grants received: Nil

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total Grants received:

Sl. No.	Title of the Project	National /International	Funding Agency	Principal Investigator & Co-Investigator	Year	Amount Sanctioned
01	A case study on Nitrate adsorption characteristics on red soil	National	KSCST	Ramesh Bashetty	2012-13	6000=00
	Strength comparison of conventional concrete and reactive powder concrete an approach to tensile and compressive strength using steel fibers.	National	KSCST	Santosh Dhadde	2014-15	7500=00
03	Stabilization of black cotton soil using fly-ash in Bidar – Bhalki Municipal Corporation area	National	KSCST	Md. Khaja	2014-15	4500=00
04	Compaction and strength characteristics of black cotton soil in presence of Chloride and Sulphates.	National	KSCST	Md. Khaja	2014-15	6000=00

18. Research Centre /facility recognized by the University: No

a. State Recognition: i. NIL

- b. National Recognition: 22
- c. International Recognition: 11

## 19. Publications: 31

- a) Publication per faculty: - 2.5
- b) Number of papers published in peer reviewed journals (national /International) by faculty and students: - 27
- c) Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Science Directory, EBSCO host, etc.): - 10
- d) Monographs\* Chapter in Books\* Books Edited: - Nil
- e) Books with ISBN/ISSN numbers with details of publishers: Nil
- f) Citation Index: - 05
- g) SNIP: - Nil
- h) SJR: - Nil
- i) Impact factor: - 0.5 to 1.65
- j) h-index: - Nil

Sl. No.	Year	Papers Published in International Journal	Papers Published in National Journal	Papers Published in International Conference	Papers Published in National Conference	Total
1.	2012	Nil	Nil	Nil	Nil	Nil
2.	2013	Nil	Nil	Nil	Nil	Nil
3.	2014	04	Nil	02	01	07
4.	2015	11	03	09	01	24
	Total	15	03	11	02	31

## 20. Areas of consultancy and income generated:

## SELF STUDY REPORT (SSR)

### a) Consultancy of materials

Sl. No.	Year	Title of Consultancy Project	Funding Agencies Firms/Organization	Amount (Rs. in Lakhs)
01	2012-13	Mix Design, Material Testing , Steel, Soil, Estimating & Costing Reports etc	PWD, ZP, TP, NEKRTC, KUWS 7 DB, CADA Kalburgi, DUDC Bhalki, Sharda Construction Nanded, Laxmi Construction Kolhapur, and PMGSY Bidar.	0.99
02	2013-14	Mix Design, Material Testing , Steel, Soil, Estimating & Costing Reports etc	PWD, ZP, TP, NEKRTC, KUWS 7 DB, CADA Kalburgi, DUDC Bhalki, Sharda Construction Nanded, Laxmi Construction Kolhapur, and PMGSY Bidar	3.31
03	2014-15	Mix Design, Material Testing , Steel, Soil, Estimating & Costing Reports etc	PWD, ZP, TP, NEKRTC, KUWS 7 DB, CADA Kalburgi, DUDC Bhalki, Sharda Construction Nanded, Laxmi Construction Kolhapur, and PMGSY Bidar	3.99
04	2015-16	Mix Design, Material Testing , Steel, Soil, Estimating & Costing Reports etc	PWD, ZP, TP, NEKRTC, KUWS 7 DB, CADA Kalburgi, DUDC Bhalki, Sharda Construction Nanded, Laxmi Construction Kolhapur, and PMGSY Bidar	4.16

## b) Third Party Inspection Works

Sl. No	Year	Title of Consultancy Project	Funding Agencies	Amount (RS in Lakhs)
01	2012-13	CC Road, CC drain, Water pipeline, bore wells , buildings and electrical works,	Taluka Panchayat Bhalki & TMC Humnabad	2.38
02	2013-14	CC Road, CC drain, Water pipeline, bore wells , buildings and electrical works,	Taluka Panchayat Bhalki & TMC Humnabad	3.81
03	2014-15	CC Road, CC drain, Water pipeline, bore wells , buildings and electrical works,	Taluka Panchayat Bhalki & TMC Humnabad	7.96
04	2015-16	CC Road, CC drain, Water pipeline, bore wells , buildings and electrical works,	Taluka Panchayat Bhalki & TMC Humnabad	9.30

## 21. Faculty as members in

National and International Committees	Life Membership	Reviewer Board
ISTE(Indian Society for Technical Education)	7	
American Society of Civil Engineers (ASCE)	01	
Member of Institution of Engineers ( MIE )	04	
International Association of Engineers ( IAENG )	9	
CSTA	7	
NICEE	3	
IWWA	1	
IAH	1	
IJRET		1
IJARCS		1
<b>Total</b>	<b>33</b>	<b>02</b>



## 22. Student projects

### a) UG:

- Percentage of students who have done in-house projects including inter-departmental: 90%
- Percentage of students doing projects in collaboration with industries / institutes: 10% (Each project is carried out by four student's maximum in each batch).

### b) PG:

- Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies: 20%
- Percentage of students who have done in-house projects including inter-departmental: 80%
- The M.Tech. Students undergo internship at various industries during their III semester. M.Tech. in Geo Technical Engineering Internship Programme held

**during 01-08-2015 to 31-12-2015**

Sl. No	Name of the Student	USN	Name of the Company	Name of the Guide	Student Contact No.
01	Chetan K	3RB14CGT01	Aishwaryagiri Constructions Bangalore	Prof. A. Pandurang	9164340457
02	Pradeep Kumar	3RB14CGT04	G.K. Constructions Bidar	Dr. V.M.Devappa	9738604591
03	Ramesh	3RB14CGT05	D.K. Constructions Humanabad	Dr.Arunkumar	9739757121
04	Ravikumar	3RB14CGT06	Mailalingashwar Constructions Kalaburgi.	Dr.Arunkumar	7411721218
05	Satishkumar	3RB14CGT07	Sharada Constructions Pvt. Ltd. Nanded.	Prof.S.V.Biradar	8867579490

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06	Veershetty	3RB14CGT08	Kotarki Constructions Kalaburgi.	Prof.D.K.Kanna	9945678666
07	Vijayarani	3RB14CGT09	PMGSY Bidar	Prof.Nagraj Bacha	9686799904

### 23. Awards / Recognitions received by faculty and students:

Sl. No	Name of the Student	Details of the Award	National /International	Year
1	Harsha Patil	Highest scorer in Concrete technology	Ultratech Cement Bidar	2015
2	Bhagyashree	Second Highest scorer	Ultratech Cement Bidar	2015

### 24. List of eminent academicians and scientists / visitors to the Department

Sl. No.	Name of Faculty	Organization	Purpose of Visit
1.	Dr. P.G. Shastry	Emirate Professor, NIT Warangal	A special talk on Engg. Mechanics to B.E. I and II semester students
2.	Dr P.G. Shastry	Emirate Professor, NIT Warangal	A special talk on Ground water Hydrology for UG and PG students
3.	Dr. P.G. Shastry	Emirate Professor, NIT Warangal	A special talk on Engg. Mechanics to B.E. I and II semester students
4	Hemant	M. Visvesvaraya Technologies, Bangalore	Invited talk on Use of Total Station/LIDAR
5	Prashant Biradar		National level Workshop On AUTO DESK building information modeling (BIM) 1 <sup>st</sup> to 5 <sup>th</sup> march-2016

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6	Dr. Katta Venkatramana Dr. SK Prasad. Prof SJCE Mysore Dr. S M Azam , Dr. Vageesh M. Dr.L Govindaraju, Dr. Chetan K  Mr Vijay K	Prof and Dean at NITK Prof SJCE Mysore  Principal KBNCE, Gulbarga Principal FCER, Sangola Associate Prof. UVCE Bangalore Asst Prof UVCE Bangalore  Asst Prof . Govt. Engineering College Raichur.	National level Workshop On Earth Quake Resistance Practices in Civil engineering ( ERPCE- 2015 ) 09 <sup>th</sup> to 11 <sup>th</sup> Mar. 2015
7	Dr. P G Sastry,  Dr. K Jaykumar,  Dr. Rajanna,	Former Director NITK Warangal Prof. and Head NITK Warangal Director KRSAC, GUG Campus, Gulbarga, VTU Belagavi	National level Workshop On Water – Planning and management for Sustainability 25 <sup>th</sup> to 27 <sup>th</sup> Apr. 2014
8	Dr. Sulochana,  Dr. Sandeep Patil,  Dr. Rajanna,	Prof. Dept. of Earth Science Central University Karnataka Regional Coordinator, KSCST Regional Office Gulbarga  Director, KRSAC, GUG Campus, Gulbarga	National level Workshop On GEOSPATIAL TECHNOLOGIES (Using open source GIS) 9 <sup>th</sup> to 11 <sup>th</sup> Oct. 2015

### 25. Seminars/ Conferences/Workshops organized & the source of funding

Sl. No.	Seminars/Conferences/ Workshops organized	National /International	The Source of funding	Duration
1	National Level Workshop on Earthquake resistant Practices in Civil Engg. (ERPCE 2015)	National	Ministry of Earth Sciences New Delhi	9-3-2015 to 11-3-2015
2	Geospatial Technologies(Using Open Source GIS)	National	Self	9-10-2015 to 11-10-2015
3	Water Planning and Management for sustainability	National	Self	25-04-2014 to 27-04-2014
4	One Day Seminar On Total Station	National	Self	09-05-2014
5	National Level Five Days Workshop on AutoDesk – Building information Modelling (BIM)	National	Self	1-3-2016 to 5-3-2016

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6	Invited talk on Advanced Surveying Technologies Using Total Station/LIDAR Shri M.V. Institute of Engineering Skills	Seminar	Self	9-5-2014
7.	Invited talk on application of Prima Vera in Civil Engineering by Kumar Jayant Singh Manager of J.D- CAD Technologies Kolkata	Seminar	Self	2-4-2016

26. Student profile programme/course wise:

UG: Total Intake 30/120

Year	Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
				*M	*F	
2011-12	B.E. Civil	33	33	32	1	63
2012-13	BE Civil	34	34	32	2	77
2013-14	BE Civil	31	31	29	02	81
2014-15	BE Civil	28	28	26	02	79

PG: Total intake 18

Year	Name of the Course/programme GTE	Applications received	Selected	Enrolled		Pass percentage
				*M	*F	
2011-12	--	--	--	--	--	--
2012-13	13	13	13	12	1	40
2013-14	7	7	7	5	2	100
2014-15	16	16	16	13	3	88

\*M=Male \*F=Female

Year	Name of the Course/programme WRM	Applications received	Selected	Enrolled		Pass percentage
				*M	*F	
2011-12	--	--	--	--	--	--
2012-13	03	03	03	03		34
2013-14	02	02	02	02		50
2014-15	03	03	03	03	--	33

\*M=Male \*F=Female

## 27. Diversity of Students B.E. Civil

Year	Name of the Course4)	% students from the same state	% of students from other States	% of students from abroad
2011-12	B.E. Civil	60	40	--
2012-13	B.E. Civil	81	19	--
2013-14	B.E. Civil	84	16	--
2014-15	B.E. Civil	92	08	--

## P.G. Courses GTE & Water Resources Management

Year	Name of the Course	% students from the same	% of students from other	% of students from abroad
2011-12	GTE & WRM	75	25	-
2012-13	GTE & WRM	80	20	-
2013-14	GTE & WRM	82	18	-
2014-15	GTE & WRM	90	10	-

## 28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. ?

Academic Year	NET	SLET	GATE	Civil Services	Defense Services
2014-2015	---	-----	05	-----	01
2013-2014			02	-----	-----
2012-2013	----	-----	03	01	-----
2011-2012	-----	-----	10	01	-----

## 29. Student progression

	2011-12	2012-13	2013-14	2014-15	2015-16
Student progression	Against % enrolled	Against % enrolled	Against % enrolled	Against % enrolled	Against % enrolled
UG to PG from office	10	12	21	21	
PG to M.Phil.	Nil	Nil	Nil	Nil	
PG to Ph.D.	Nil	Nil	Nil	Nil	
Ph.D. to Post-Doctoral	Nil	Nil	Nil	Nil	
Employed -Campus selection -Other than campus recruitment	35	61	63	57	
Entrepreneurship/Self-employment	01	02	02	03	

## 30. Details of Infrastructural facilities

### a) Library

i) Seating capacity: 10 Students:

ii) Library holdings:

Library Holdings	No. of Volumes
Books	1028
Journals/periodicals	02
Newspapers	--
E-resources	--
Project reports	40
Seminar reports	156
Hardware Mini Projects	--
Vocational Training Report	07

### b) Internet facilities for Staff & Students

ISP	BSNL
Lease Line	20Mbps
Compression Ratio	1:1
Wi-Fi facility	Yes
Firewall	Cyberoam150NG
Router	Cisco SG300-28

### c) Class rooms with ICT facility

Room Description	Usage	Shared/ Exclusive	Capacity	Rooms equipped with PC, internet, book rack, meeting space, etc.
Seminar Hall (Ground Floor)	Class room 2nd Year	Exclusive	100	Desk, platform, fans, tube lights, green board, Chairs, podium. A/c, Projector etc
L-1 (First Floor)	Class room 2nd year	Exclusive	80	Desk, platform, fans, tube lights, green board, Chairs, podium.
L-2(First Floor)	Class room 2 <sup>nd</sup> year	Exclusive	80	Desk, platform, fans, tube lights, green board, Chairs, podium.
L-3(First Floor)	Class room 3rd Year	Exclusive	60	Desk, platform, fans, tube lights, green board, Chairs, podium.
L-4 (First Floor)	Class room 3rd year	Exclusive	60	Desk, platform, fans, tube lights, green board, Chairs, podium.

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L-5 (Second Floor)	Classroom 4 <sup>th</sup> Year	Exclusive	80	Desk, platform, fans, tube lights, green board, Chairs, podium.
L-6 (Second Floor)	Class Room 4 <sup>th</sup> year	Exclusive	80	Desk, platform, fans, tube lights, green board, Chairs, podium.
L-7(Second Floor)	PG Class	Seminar and Conference	100	Chairs with pad, table and white board, LCD projector, PC, Wireless Monitoring System, Speakers, AC.
L-8(Second Floor)	PG Class	Exclusive	50	Chairs with pad, table and green board, podium LCD projector, PC, Wireless Monitoring system
L-9 (Second Floor)	PG Class	Exclusive	50	Chairs with pad, table and green board, podium, LCD projector, PC,
Staff Rooms Ground Floor	Faculty room and personal interaction with students	Exclusive	1	Tables and chairs, fans, tubes, cot, mirrors.
Staff Rooms Ground Floor	Faculty room and personal interaction with students	Exclusive	1	Tables and chairs, fans, tubes, cot, mirrors.
Staff Rooms Ground Floor	Faculty room and personal interaction with students	Exclusive	1	Tables and chairs, fans, tubes, cot, mirrors.
Staff Rooms Ground Floor	Faculty room and personal interaction with students	Exclusive	1	Tables and chairs, fans, tubes,
Department Office Room	Exclusive	25 sq m		Excellent

d) Laboratories

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Lab Descripti on in Curriculum	Exclusive Use / shared	Space (Sq.m), Number of students	List of labs and number of Experiments	Quality of Instruments	Lab Manuals
CAD Lab	Exclusive	100 sqmt, 20	CAD Experiments 12	Excellent	Available
UPS Room	Exclusive	3mx2.8m	10 kV UPS with batteries	Excellent	Available
GTE Lab	Exclusive	100 sqmt 20 each	GTE Experiments 15	Excellent	Available
Geology Lab	Exclusive	100 sqmt 20 each	1.Geology lab expts 04 2. Geology lab maps 08 3.Geology lab problems 3	Excellent	Available
Env Engg. Lab	Exclusive	100 sq. mt. 20	1.Env Engg Lab 16	Excellent	Available
C & HM Lab	Exclusive	100 sq. mt. 20	Lab Experiments 14	Excellent	Available
H &HM Lab	Exclusive	150 Sq. mt. 20	Lab Experiments 14	Excellent	Available
BMT Lab	Exclusive	150 Sq. mt 20	Lab Experiments 15	Excellent	Available
Survey Lab	Exclusive	100 Sq mt	Lab Experiments 12	Excellent	Available
PG Research WRM	Exclusive	25 sq m	Lab Experiments 12	Excellent	Available

31. Number of students receiving financial assistance from College, University, Government or other agencies:



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Details of students of B.E. Civil		Scholarship Assistance	CFY 2014-15 (Rs. in Lakh)	CFY1 2013-14 (Rs. in Lakh)	CFY2 2012-13 (Rs. in Lakh)	CFY3 2011-12 (Rs. in Lakh)	CFY4 2010-11 (Rs. in Lakh)
Category	SC	Merit Cum Scholarship Government of Karnataka	12.8	11.09	6.65	3.63	Nil
	ST		8.96	5.12	3.74	16.15	Nil
	OBC, GM		30.07	12.77	31.32	12.22	Nil
Total Amount			51.83	28.98	41.71	32.00	Nil

Details of students of M.Tech.		Scholarship Assistance	CFY 2014-15 (Rs. in Lakh)	CFY1 2013-14 (Rs. in Lakh)	CFY2 2012-13 (Rs. in Lakh)	CFY3 2011-12 (Rs. in Lakh)	CFY4 2010-11 (Rs. in Lakh)
Category	SC	Merit Cum Scholarship Government of Karnataka	19.50	13.29	6.12	6.63	Nil
	ST		13.03	13.29	6.12	6.63	Nil
	OBC, GM		25.00	25.00	0.00	0.00	Nil
Total Amount			57.38	51.52	12.24	13.26	

32. Details on student enrichment programme (special lectures / workshops /seminar) with external experts

Sl. No.	Title	Guest speaker	Year
1.	A special talk on Engg. Mechanics to B.E. I and II semester students	Dr. P.G. Shastry NIT Warangal	2015
2.	A special talk on Ground water Hydrology for UG and PG students	Dr. P.G. Shastry NIT Warangal	2015
3.	A special talk on Engg. Mechanics to B.E. I and II semester students	Dr. P.G. Shastry NIT Warangal	2015

### 33. Teaching methods adopted to improve student learning.

Staff members strive hard in their Endeavour to improve teaching methodology. In this regard they adopt various methods as listed below.

#### **UG:**

- Well prepared notes and study material while going to class.
- Better usage of projectors to explain the students the complicated figures and drawings.
- Ongoing Construction sites visits.
- Use of models and construction charts.
- Using seminars and projects as aid to enhance knowledge.
- Study hours for completed syllabus weekly

#### **PG:**

- Well prepared notes and study material while going to class
- Using Projectors and other tools for teaching
- Internship programs assignments
- Seminars

### 34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

NSS UNIT is headed by our college staff B. Suryakant and co-ordinated by our faculty members. Every year promptly and with full zeal all the events listed under NSS is organized successfully. Students of our department have participated in various social activities viz.

- a. Blood donation camp on various occasions
- b. Tree plantation Programme
- c. Organizing Poster exhibitions like “to save girl child”, “Save Environment on occasion of Swach Bharat Abhiyaan”
- d. Free health check up camps for surrounding rural Villages
- e. Bringing Awareness about Yoga and its benefits on International Yoga day and many more.
- f. Educating rural people on computers under Pradhanmantri Yojna.
- g. Conducting job mela for unemployed youth of the district.
- h. Organizing World Water Day Programme to create awareness on effective utilization of water.

### 35. SWOC analysis of the department and Future plans

#### **Strengths:-**

1. Highly reputed and experienced staff
2. Well equipped laboratories and class rooms.
3. Highly resourceful Departmental library helping the students to excel in their fields.
4. Faculty members have both field and academic experience catering the needs of the students.
5. Content beyond syllabus is taught to impart futuristic technical education to improve the students' standards in today's global arena.

#### **Weakness:-**

1. College is situated in rural area of North Karnataka.
2. Difficult to have interaction with industries which limit the exposure to the students.
3. As the quality of students is poor it is difficult to get quality results in competitive exams.
4. Difficult to attract potential faculty members due to geographical constraints.
5. Majority of students are coming from rural background with poor skills.
6. Reputed organizations/ Industries are reluctant for campus interview due geographical constraints.

#### **Opportunities:-**

1. Technical Education to the door steps to the rural mass.
2. Technical support to rural part for the holistic growth.
3. To extend skill development to rural youth.
4. To provide Third Party support to different construction activity in and around Bhalki .
5. Promote youth of rural area for the nation building .
6. Promotion of technologies suitable for nearby area.
7. Use of local materials in construction industry.

#### **Challenges:-**

1. To nurture good engineers from poor inputs as good students are inclined towards cities.
2. To prepare quality engineers to cater the needs of industry.

3. To retain prominent faculty and staff for the growth of teaching and learning environment of the institute.
4. Stiff competition from city colleges.
5. Collaboration with leading University/ Institute of leading countries and institutes of national importance.

## EVALUATIVE REPORT OF THE CHEMICAL ENGINEERING DEPARTMENT

1. Name of the department: **Chemical Engineering**
2. Year of Establishment: **1994**
3. Names of Programmes / Courses offered (UG, PG, M. Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.): **UG**
4. Names of Interdisciplinary courses and the departments/units involved:  
**Department does not offer any interdisciplinary programs.**
5. Annual/ semester/choice based credit system (programme wise):  
**UG: Semester (For 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> year) / CBCS (For 1<sup>st</sup> year)**
6. Participation of the department in the courses offered by other departments

Name of the Subject	Name of Department	Name of the faculty
Heat Transfer Lab	Mechanical Engg	Sudhakar
Momentum Transfer	Civil Engg.	Sudhakar
PHE Lab	Haralaiah Polytechnic Bhalki	B.S. Patil

7. Courses in collaboration with other universities, industries, foreign institutions, etc.:  
**Yes**

Sl. No.	Institute/ Industries	Contact Person	Details	Academic Year of Signing
1.	MEDINI, Bangalore	MEDINI Bangalore	MEDINI Bangalore	2012-2013
2.	IIT Roorkee	Dr. Vinod Kumar, Deputy Director, IITR	Virtual Labs Nodal Centre (VLNC)	2015-2016
3.	IIIT, Hyderabad	Dr. Venkatesh Chopalla, Professor, Department of Computer Science Engg., IIITH.	Expression of Interest (EOI) for Virtual Labs Nodal Centre (VLNC)	2015-2016
4.	Amrita University	Miss. Shilpa Selvan	Expression of Interest (EOI) for Virtual Labs Nodal Centre (VLNC)	2015-2016
5.	Preva Systems, Bangalore	Mr. Sharan K. M.D.	Internet of Things, Centre of Excellence	2015-2016

8. Details of courses/programmes discontinued (if any) with reasons: **No.**

## SELF STUDY REPORT (SSR)

### 9. Number of teaching posts

	Sanctioned	Filled
Professors	01	00
Associate Professors	02	01
Asst. Professors	03	04

### 10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)

Sl. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
01	M. A. Devani	M.Tech. (Ph.D)	Associate Professor	Chemical Engg.	17	--
02	B.S. Patil	M.Tech	Asst. Professor	Environmental Engg.	20	--
03	Sudhakar B.H.	M.Tech	Assistant Professor	Chemical Engg.	03	--
04	Bhagayashree	M.Tech	Assistant Professor	Chemical Engg.	01	--
05	Shilpa M.	M.Tech	Assistant Professor	Chemical Engg.	01	--

### 11. List of senior visiting faculty: **All classes are handled by regular faculty members**

### 12. Percentage of lectures delivered and practical classes handled (programme wise)

by temporary faculty: **All classes are handled by regular faculty members only.**

### 13. Student -Teacher Ratio (programme wise):

Programme of Study	No. of Students	No. of Teachers	Student -Teacher Ratio
UG	53	05	10:1

### 14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Staff type	Sanctioned	Filled
Academic Support Staff (technical)	06	06
Administrative	Nil	Nil

## SELF STUDY REPORT (SSR)

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG

Ph.D. pursuing faculty	01
PG faculty	04

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

Sl. No.	Title of the Project	National /International	Funding Agency	Principal Investigator & Co-Investigator	Year	Amount Sanctioned
01	A Solution for the Remediation of Hazardous Arsenic in Ground Water of Hyderabad – Karnataka Region	National	VGST Bengaluru	Principal Investigator: Prof. M. A. Devani Co-Investigator: NO	2015-16	20 lacs

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received

Sl. No.	Faculty Name	Project Name	Year	Financing Agency	Total Amount
01	M.A. Devani	A Solution for the Remediation of Hazardous Arsenic in Ground Water of Hyderabad – Karnataka Region	2015-16	VGST Bengaluru	20 lacs
02	M.A. Devani	Adsorption of Phenolic water in a fixed bed column	2013-14	KSCST	4000/-
03	Shaik Shadulla	Removal of phenol by electrochemical oxidation technique to avoid contamination in the environment	2013-14	KSCST	5500/-
04	Koteshwara Rao	Removal of As from water by adsorption technique	2013-14	KSCST	4000/-
05	B.S. Patil	De fluoridation of drinking water using Bricks	2012-13	KSCST	5000/-
Total grants received					20,18,500/-

18. Research Centre /facility recognized by the University **VGST K-FIST Level 1**

19. Publications:11

a) Publication per faculty:02

b) Number of papers published in peer reviewed journals (national / International ) by faculty and students

## SELF STUDY REPORT (SSR)

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

Monographs

Chapter in Books

Books Edited

Books with ISBN/ISSN numbers with details of publishers

Citation Index

SNIP = 1.054

SJR = 0.520

Impact factor – 3.127

h-index

Sl. No.	Year	Papers Published in International Journal	Papers Published in National Journal	Papers Published in International Conference	Papers Published in National Conference	Total
1.	2011-2012	---	---	---	02	02
2.	2012-2013	01		02	---	03
3.	2013-2014	01	---	01	02	04
4.	2014-2015	02	---	01	---	03
	Total	04	---	04	04	11

20. Areas of consultancy and income generated:

Name	Type of consultancy	Income generated
Prof. B.S. Patil	Drinking Water Testing	Part of social responsibility we are providing this facility free of cost

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards....

Sl. No	Name of the faculty	National Committees	Inter National paper Committees	Editorial Board (International Journal)	Conference Reviewer/Chair/co-chair	
					National	International
01	M.A. Devani	ISTE, BOE	IACSTA, IAENG	02 (Reviewer – 01- Elsevier	Chair – 02 Co-chair	Chair – 02 Co-chair



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				01-IJRET)	- 02	- 02 Reviewer - 02
02	B.S. Patil	ISTE, BOE	IAENG,CSTA	Nil	Chair – 01 C0-chair - 01	
03	Sudhakar B. H	Nil	IAENG,CSTA, IACSIT	Nil		
04	Bhagyashre e	Nil	IAENG	Nil		
05	Shilpa M.	Nil	IAENG	Nil		

ISTE – Indian Society for Technical Education

BOE – Board of Examiners

IACSTA - International Association of Computer Science and Information Technology

IAENG - International Association of Engineers

CSTA – Computer Science Teachers Association

### 22. Student projects

- a) Percentage of students who have done in-house projects including inter departmental / programme: **100**
- b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies: **Nil**

### 23. Awards / Recognitions received by faculty and students

Sl. No	Name of the Faculty/Student	Details of the Award	National /International	Year
1	M. A. Devani (Faculty)	Best technical paper award	International Conference on “Frontiers in Engineering” (ICFCE -2013)	9 <sup>th</sup> – 11 <sup>th</sup> Dec. 2013

### 24. List of eminent academicians and scientists / visitors to the department

SL. No	Name of the Academicians/Scientist	Organization	Purpose	Date
01	Dr. Sandeep M.	Dalmia Cement Research Institute	Invited talk	05.03.16
02	Dr. Akhilesh K.	NIT Raipur	Invited talk	21.08.15
03	Dr John U. Kenedy	PDACE Kalaburgi	Invited talk	16.09.14
04	Dr. Maharudrayya S.	Research Scientist, Heat Transfer and Fluid Dynamics Technical Sciences TNO Stieltjesweg 1 2628 CK Delft	Invited talk	10.05.14

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		The Netherlands		
05	Dr. B.M. Patre	SGGS Nanded	Resource person in Research Methodology workshop	18 <sup>th</sup> and 19 <sup>th</sup> March 2014
06	Dr. Suhas Gajre	SGGS Nanded	Resource person in Research Methodology workshop	18 <sup>th</sup> and 19 <sup>th</sup> March 2014
07	Dr. Manthalkar Ramchandra R.	SGGS Nanded	Resource person in Research Methodology workshop	18 <sup>th</sup> and 19 <sup>th</sup> March 2014
08	Dr. S. R. Pandey	PDACE Kalaburgi	Chief Guest	13.04.2013

### 25. Seminars/ Conferences/Workshops organized & the source of funding

Seminars/Conferences/ Workshops organized	National /International	The Source of funding	Duration
Workshop on “Research Methodology”	National	Self	18 <sup>th</sup> and 19 <sup>th</sup> March 2014. 02 days
Symposium “Chemvision 2013”	National	Self	13 <sup>th</sup> April 2013 01 day
One day seminar “ Trends in Heat and Mass Transfer”	-	-	16 <sup>th</sup> April 2012

### 26. Student profile programme /course wise:

Name of the Course/programme (refer question no. 4)	Academic year	Applications received	Selected	Enrolled		Pass percentage
				*M	*F	
Chemical Engineering	2014-15	11	11	10	01	100
	2013-14	22	22	17	05	100
	2012-13	27	27	25	02	92.5
	2011-12	19	19	16	03	94.7

\*M = Male \*F = Female

## 27. Diversity of Students

Year	Name of the Course	% students from the same state	% of students from other States	% of students from abroad
2011-12	BE Chemical Engg	72.72	27.27	Nil
2012-13	BE Chemical Engg	75.00	25	Nil
2013-14	BE Chemical Engg	100	Nil	Nil
2014-15	BE Chemical Engg	78.57	21.42	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?:

Academic Year	GATE	Civil Services	Defense Services
2014-2015	--	08	--
2013-2014	01	04	--
2012-2013	04	03	--
2011-2012	--	01	--

## 29. Student progression

Year	2012-13	2013-14	2014-15	2015-16
Student progression	Against % enrolled	Against % enrolled	Against % enrolled	Against % enrolled
UG to PG	14.81	0.45	--	--
PG to M.Phil.	--	--	--	--
PG to Ph.D.				
Ph.D. to Post-Doctoral	--	--	--	--
Employed -Campus selection -Other than campus recruitment	80	63.63	100	
Entrepreneurship/Self-employment	--	--	--	--

## 30. Details of Infrastructural facilities

a) Library: CHESSA Library,

1. Seating capacity: 15 Students

2. Library holdings:

Library Holdings	No. of Volumes
Books	601
Journals/periodicals	-
Newspapers	-
E-resources	10

## SELF STUDY REPORT (SSR)

Project reports	23
Seminar reports	187
Hardware Mini Projects	-
Vocational Training Report	-

### b) Internet facilities for Staff & Students:

ISP	BSNL
Lease Line	20Mbps
Compression Ratio	1:1
Wi-Fi facility	Yes
Firewall	Cyberoam150NG
Router	Cisco SG300-28

Through WI-Fi

### c) Class rooms with ICT facility - 3 Class rooms

Room Description	Usage	Shared/ Exclusive	Capacity	Rooms equipped with PC, internet, book rack, meeting space, etc.
L-11	Class room 4 <sup>th</sup> Year	Exclusive	60	Desk, platform, fans, tube lights, Black board, Chairs, podium.
CLSH-1	Class room 3 <sup>rd</sup> year	Exclusive	60	Desk, platform, fans, tube lights, green board, Chairs, podium.
CL-2	Class room 2 <sup>nd</sup> year	Exclusive	60	Desk, platform, fans, tube lights, black board, Chairs, podium.

### d) Laboratories

Lab Description in Curriculum	Exclusive Use / shared	Space (Sq.m), Number of students	List of major equipments and no. of experiments	Quality of Instruments	Lab Manuals
Momentum Transfer Lab	Exclusive	100 sq. mt. 10 each	<ol style="list-style-type: none"> <li>Flow rate measurement using venturi meter</li> <li>Flow rate measurement using orifice meter</li> <li>Local velocity measurement using pitot tube</li> <li>Flow over notches</li> </ol> No. of Experiments: 12	Excellent	Available
Technical Chemistry Lab I & II	Exclusive	75 sq. mt. 10 each	<ol style="list-style-type: none"> <li>Digital balance</li> </ol> No. of Experiments: 12	Excellent	Available

## SELF STUDY REPORT (SSR)

Mechanical Operations Lab	Exclusive	100 sq. mt. 10 each	<ol style="list-style-type: none"> <li>1. Ball mill</li> <li>2. Cyclone separator</li> <li>3. Drop weight crusher</li> <li>4. Froth flotation</li> <li>5. ICI sedimentation</li> <li>6. Leaf filter</li> </ol> <p>No. of Experiments: 11</p>	Excellent	Available
Heat Transfer	Exclusive	100 sq. mt. 10 each	<ol style="list-style-type: none"> <li>1. Vertical condenser</li> <li>2. Shell and tube condenser</li> <li>3. Emissivity determination</li> <li>4. Double pipe heat exchanger</li> <li>5. Spiral plate heat exchanger</li> </ol> <p>No. of Experiments: 12</p>	Excellent Intel P-4, 2.66 GHz PCs	Available
Pollution control & I.A. Lab	Exclusive	75 sq. mt. 10 each	<ol style="list-style-type: none"> <li>1. Measurement of particulate matter in air</li> <li>2. UV-Spectrophotometer.</li> <li>3. Flame photometer.</li> <li>4. KF-autotitrator.</li> <li>5. Turbidity meter</li> </ol> <p>No. of Experiments: 10</p>	Excellent	Available
Mass Transfer	Exclusive	100 m <sup>2</sup> 10 each	<ol style="list-style-type: none"> <li>1. Plate column Distillation.</li> <li>2. Surface Evaporation</li> <li>3. Adsorption studies</li> <li>4. Hold up studies in packed column.</li> <li>5. Vacuum tray dryer</li> </ol> <p>No. of Experiments: 12</p>	Excellent	Available
Chemical Reaction Engg.	Exclusive	100 sq. mt. 10 each	<ol style="list-style-type: none"> <li>1. Batch Reactor</li> <li>2. Plug flow reactor</li> <li>3. Mixed flow reactor</li> <li>4. Semi batch reactor.</li> </ol> <p>No. of Experiments: 12</p>	Excellent HP Desktops	Available
Process Control	Exclusive	100 sq. mt. 10 each	<ol style="list-style-type: none"> <li>1. Time constant determination and response to step change of thermo meter</li> <li>2. Pressure system –I order</li> <li>3. Single tank system –I order</li> <li>4. Non interacting – First order elements in series</li> <li>5. Interacting – First order elements in series</li> </ol> <p>No. of Experiments: 10</p>		Available

## SELF STUDY REPORT (SSR)

Computer Applications & Simulation Lab	Exclusive	100 sq. mt. 10 each	1. Wipro computers - 09 Nos 2. Chirag computers – 03 Nos 3. HP impact computers- 05Nos 4. HP laserJetP1007 printer – 01Nos No. of Experiments: 10		Available
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31. Number of students receiving financial assistance from college, university, Government or other agencies:

Details		Scholarship Assistance	CFY 2014-15 (Rs. in Lakh)	CFY1 2013-14 (Rs. in Lakh)	CFY2 2012-13 (Rs. in Lakh)	CFY3 2011-12 (Rs. in Lakh)
Category	SC	Merit Cum Scholarship Government of Karnataka	42675/-	0	41590/-	80780/-
	ST		128025/-	85350/-	83180/-	40390/-
	OBC, GM		339570/-	194040/-	1044000/-	676000/-
Total Amount			510270/-	279390/-	1168770/-	797170/-

32. Details on student enrichment programmes (special lectures / workshops /seminar) with external experts:-

Sl. No.	Title	Guest speaker	Company	Year
1	Entrepreneurship awareness camp	Jagadish Y.	CEDOK, Dharwar	2015-16
2	Role of Chemical Engineers in Pharmaceutical Industries	Peer Ahmad,	General Manager, MYLON Hyd	03.02.2016
3	Campus recruitment training	Rishi R, Ashok Kumar, Tamanna N, S. Afroz, Zeenet	HireEx, Mumbai	2015-16
4	Leadership & Entrepreneurship	Neelkant	Deshpande foundation, Hubballi	2015-16
5	Latest Trends in Chemical Industries	Rahul Sethi	Env.Consultant Bhutan	10.04.2015
6	Personality development	Trimbak Pawar	Udgir	2015-16

## SELF STUDY REPORT (SSR)

7	Problem Solving in Engg Context	Dr. S. Pilli	Belgaum	2015-16
8	Enhancing inner strength	B K Veena	Prajapati Brahmakumari Ishwari Vishwa Vidyalaya, Rajastahn	2015-16
9	Employability of Chemical Engineers	Sanjeev kumar	Chettinad Cement Chincholi Kalaburgi	20.03.2014
10	Fuel cells	Dr. Sridhar Pandey	PDACE Kalaburgi	12.03.2013

### Invited Talk:

Sl. No.	Title	Guest speaker	Company	Year
1	Invited talk	Dr. Arun Umarji	IISC, Bangalore	29th Jan.2016
2	Problem Solving in Engg Context	Dr. S. Pilli	Belgaum	14th Feb' 15
3	Robotics	Sourabhkumar & Krishna Teja	Robo Sapiens, India & CCAIC, IIT Delhi	2013
4	Invited Talk for students	Tarun S Kumar, Ashok Shetty	M/s. AkuvaInfotek Pvt. Ltd. Bangalore	05-05-2012

### Personality Development Programs:

Sl. No.	Title	Guest speaker	Company	Year
1.	Personality Development for 1st semester	Trimbak Pawar	Udigir	18th Nov 2015
2.	Personality development	Dr. Jaganath Rao, Bangalore		29 - 30 Apr'15
3.	Personality development	Dr. Jaganagth Rao	Bangalore	2014
4.	Personality Development Workshop	Dr. Jangannath Rao	Bangalore	17th Feb. 2012

### Entrepreneurial Development Program:

Sl. No.	Title	Guest speaker	Company	Year
1.	Entrepreneurial Development	VTU, RO, Gulbarga	VTU	13th March,

## SELF STUDY REPORT (SSR)

	Program			2015
2.	Employment Empowerment Program	Srinidhi,	RIIT, Mysore	27th - 28th March, 2015
3.	Lead Programme		Deshpande foundation Hubli	30-31st march 2016
4.	Entrepreneurship awareness camp	Jagadish Y.	CEDOK, Dharwar	27 - 29 Feb'16
5.	Leadership & entrepreneurship	Neelkant	Deshpande Foundation, Hubli	4th Nov 2015
6.	Employment Empowerment Programme	BKIT, bhalki	RIIT, Mysore	27 & 28 Mar' 15
7.	Life skill development for 2nd sem students	Mr.GeorgeSalihe&Shrithi G	Lead Nation Ltd., Bangalore	29 - 30 Apr'15
8.	Employability skills enhancement programme	Mr. LokeshMathur&Prerna, Mumbai	HireEX, Mumbai	16th - 25th Sep. 2014
9.	Aptitude Skill	Mr. Raghupati P, Bangalore	The GATE Academy Pvt. Ltd., Bangalore	30th Sep.2014
10	Seminar on Employability Skills	S V Venkatesh MD & CEO , Moksha GundamAlur	RIIT, Mysore	21-03-2013
11.	Seminar on Soft Skill	Dr. N. Shivkumar	Corporate Trainer, Bangalore	2012
12.	Soft Skill Seminar	Dr.Shivkumar, Bangalore	Bangalore	18th Oct. 2012
13.	Employment Training program	Mr. Rahul Desai, M/s Monika, Mumbai	Rishicool.com, Mumbai	12th - 17th Sep. 2011
14.	Employability Training	Rahul Desai, Prakash Tiwari, Dr. Shailaja	Rishicool.com Mumbai	12 to 17th sep 2011

Training for preparation to appear Competitive Exams:

Sl. No.	Title	Guest speaker	Company	Year	No of Students
1	GATE awareness & scholarship exam	Manoj Sharma	TIME, Hyderabad	2014	All Final year



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2	Seminar On GATE Preparation	Mr. Liyaqatali .N. Dafedor	Director GATE Academy Bangalore	05-10-2012	All Final year
3	MOCK-Test on GATE	Mr. Mukhtar	Manager GATE Academy Bangalore	05-10-2012	All Final year

### Workshop/ FDP:

Sl. No.	Title	Guest speaker	Company	Year	Remarks
1.	Seminar on 3D MAX, CATIA, CAD	Mr. Pradeep Kallur	MEDINI Bangalore	21-03-2013	
2.	One day Faculty Development Program	V.K.K. Nadimpalli, Deputy Director, MSME Govt. of India	MSME Govt. of India	13-04-2012	
3.	Seminar on Campus Recruitment Training Programme (CRT)	Mr. G B Prasad, Chief Trainer and Director of GCP	Global Career Point Hydrabad	22-09-2012	

33. Teaching methods adopted to improve student learning: Surprise test, PPT, Pick and speak, Group discussion etc.
34. Participation in Institutional Social Responsibility (ISR) and Extension activities  
Sudhakar B.H., Faculty member of Chemical Engg. Dept. working as a member of NSS unit is headed by Dr. B. Suryakant, ECE Dept. Every year promptly and with full zeal all the events listed under NSS is organized successfully. Students of our department have participated in various social activities viz.
1. Blood donation camp on various occasions
  2. Tree plantation programme
  3. Organizing poster exhibitions like “to save girl child”, “Save Environment on occasion of Swach Bharat Abhiyaan”
  4. Free health check up camps for surrounding rural Villages
  5. Bringing Awareness about Yoga and its benefits on International Yoga day and many more.
  6. Distribution of fruits to patient on various occasions, such as Dr B. R. Ambedkar Jayanti, Dr. Channa basva Pattadevaru jayanthi etc.

### 35. SWOC analysis of the department and Future plans

#### **STRENGTH:**

Department was accredited by NBA New Delhi (for the duration of 18.02.2011 to 17.02.2014). The students of Chemical Department have been unbeatable in academic performances. We are indeed proud to say that our students have always lived up to our expectations by securing one among the top most ranks in the entire university. In the Hyderabad - Karnataka region this is the only one college having Chemical Engineering Department under the VTU Belagavi Karnataka. Resources in the form of human and materials can be availed at any time. Department and College level placement cell which provide placement to all trainees who complete the course. Many alumni are placed in very good position around the globe and helping our students to get job. Well maintained infrastructure and laboratories.

#### **WEAKNESS:**

Since the college is located in rural area, most of the students are coming from very low socio economic status. The communication skill of the students taking admission is very poor, though the students are having good grasping ability in the subjects but unable to express before the teacher and write it in the examination. Inadequate research facilities for enthusiasm students and faculty members. Poor institute to industry and institute to institute interaction

#### **OPPORTUNITY:**

Since the department is only one of its kinds in the Kalaburgi region of VTU Belagavi, it has many opportunities to conduct training programme and other major awareness programme regarding pollution control, water quality analysis programmes. Awareness camps are organized and conducted by the students under the guidance of the teachers and multidisciplinary professionals. Students have the opportunities in participating training programmes and workshops and seminars conducted in the college and elsewhere. Preparing students for GATE/GRE and PSUs. Strengthen the industry institute interaction for better placement and overall development of students.

#### **CHALLENGE:**

People think twice/thrice to take admission in the Chemical Engineering branch, because of lack of awareness among the parents and students about the Chemical Engg. Branch, in fact job opportunity, job security and salary is very much competitive. This is to

be conveyed by the faculty of our department to the parents and students.

### **FUTURE PLANS OF THE DEPARTMENT:**

1. Up gradation of qualification of all the faculty
2. Getting fund from the various state and central funding bodies
3. Development in infrastructure facilities
4. To start PG course and research centre
5. Stress on research especially in the field of local problems, which are solved by Chemical Engineers and socioeconomic problems of the neighboring local communities.

## Evaluative Report of Master of Computer Applications Department

1. Name of the Department : **MASTER OF COMPUTER APPLICATIONS**
2. Year of Establishment : **1998**
3. Names of Programmers / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; integrated Ph.D., etc) **PG (MCA)**
4. Name of Interdisciplinary courses and the departments/units involved  
**Computer Science & Engineering Department**
5. Annual/ semester/ choice based credit system ( Program wise)  
**SEMESTER (6 Semesters)**
6. Participation of the department in the courses offered by other departments

Name of the Subject	Name of Department	Name of the faculty
Object Oriented Modeling and Design	Computer Science & Engineering	Sangamesh Kalyane
Computer Networks	Computer Science & Engineering	Bheemrao Patil
Computer Graphics	Computer Science & Engineering	Geeta Patil
Software Testing and Practices	Computer Science & Engineering	Ambika Mangalgi
Project Management	Computer Science & Engineering	Md. Rafique

7. Courses in collaboration with other universities, industries, foreign institutions, etc:-

**Nil**

8. Details of courses/ programmers discontinued (if any) with reasons:- **Nil**
9. Number of Teaching posts: **12**

	Sanctioned	Filled
Professors	1	-
Associate Professors	3	01
Asst. Professors	8	09

10. Faculty profile with name, Qualification, designation, specialization, (D.Sc/D.Litt./Ph.D./M. Phil. Etc.,)

Name	Qualification	Designation	Specialization	No.of years of Experience	No.of Ph.D students guided for the last 4 years
Basavaraj Prabha	M.Tech	Asso. Prof.	CSE	16	Nil
Sunil K. Sangame	MCA, M.Phil	Asst. Prof.	MCA	19	Nil
Gayatri Mugli	MCA, M.Phil	Asst. Prof.	MCA	10	Nil

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Yogesh V. G	MCA	Asst. Prof	MCA	10	Nil
Sandeep Kallur	MCA	Asst. Prof	MCA	5	Nil
Swapna Kulkarni	MCA	Asst. Prof	MCA	4	Nil
Megha Kheni	MCA	Asst. Prof	MCA	9	Nil
Ashwini Chakure	MCA	Asst. Prof	MCA	01	Nil
Avinash patil	MCA	Asst. Prof	MCA	01	Nil
Varsha Majage	MCA	Asst. Prof	MCA	01	Nil

### 11. List of senior visiting faculty

Mr. M.V. Nagasai – Development Manager CapGemini

### 12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty All classes are held by regular faculty members.

### 13. Students-Teacher Ratio ( programme wise)

Programme of Study	No. of Students	No. of Teachers	Student -Teacher Ratio
PG	56	10	6:1

### 14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Sanctioned: 3

Filled: 3

Technical	3
Administrative	Nil

### 15. Qualifications of teaching faculty with DSc/D.Litt/ Ph.D/ MPhil/PG

Ph.D. pursuing faculty	04
M.Phil.	02
PG faculty	10

### 16. Number of Faculty with ongoing projects from a)National b)international funding agencies and grants received: NIL

### 17. Departmental projects funded by DST –FIST; UGC, DBT, ICSSR, etc. and total grants received:- Nil

### 18. Research centre / Facility recognized by the university : No

### 19. Publication: 13

- Publication per faculty: Average 2

## SELF STUDY REPORT (SSR)

- Number of papers published in peer reviewed journals (national / international) by faculty and students : 04
- Number of Publications listed in international Database (for Eg:Web of Science, Scopus, Humanities international complete, Dare Database – International Social Science Directory, EBSCO host, etc) Nil
- Monographs
- Chapter in Books
- Books Edited
- Books with ISBN /ISSN numbers with details of Publishers
- Citation Index :- 12
- SNIP
- SJR
- Impact factor
- H-index

20. Areas of Consultancy and Income generated No

21. Faculty as Members in

a) National Committees b) International committees c)Editorial Boards

Sl. No	Name of the faculty	National Committees	Editorial Board (International Journal)	Conference Reviewer/Chair/co-chair	
				National	International
01	B.S.Prabha	LMISTE, BOE	-	Chair-02 Co-chair-02 Reviewer-01	Chair-0 Co-chair-01
02	Sunil K. Sangame	BOE	IJST-2011	Chair – 01 Co-chair - 01	Reviewer-01
03	Yogesh VG	LMISTE		Co-chair-01 Reviewer-01	

22. Students Projects

- a) Percentage of students who have done in-house projects including inter departments/ programme 100%
- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/ Industry/ other agencies Nil

## SELF STUDY REPORT (SSR)

23. Awards / Recognitions received by faculty and students:- Nil

24. List of eminent academicians and scientist / visitors to the department

Sl. No	Name of the Academicians/Scientist	Organization	Purpose
01	Dr. Sidram Patil	HOD, E&CE, PDACE, Gulbarga	Invited talk
02	Prof. Masood Ahmed	Gloabal Academy Hyderabad	Invited talk
03	Mr. M.V. Nagasai	Development Manager CapGemini	Invited talk

25. Seminars/ Conference / Workshops organized and the source of funding

a) International

01

b) National

02

Sl. No	Name of the Program	Title	Organizing Secretaries	Resource Person	Date	Duration
1	Nation level FDP	“Use of Moodle in Education	Sandeepk K	Mr. Mihivijana	8-9 August 2014	02 days
2	National Conference	Recent Trends in Mgt.& technology	Yogesh V. G	Prof. Masood Adhmad, Dr. Sidram Patil	5 – 6 April - 2013	02 days
3	International Conference	Communication Computation, management & Nanotechnology	Sunil K. Sangame, G.P. Tiwari, Shivkumar Andure	Dr. Venu Govindraju, Dr. Ishwar K. Sethi, Dr. Sharath Chandra, Dr. T. Fernando, Dr. Dr. Nagbhushan, Dr. B.M. Metre	23-09-11 to 25-09-11	03 Days

26. Students profile program /course wise .

Name of the course	Year	Admitted	Enrolled		Pass percentage
			*M	*F	
MCA	2014-15	36	13	23	100
	2013-14	29	10	19	100
	2012-13	35	13	22	100
	2011-12	25	10	15	100

27. Diversity of Students

## SELF STUDY REPORT (SSR)

Name of the course MCA	%of Students from the same state	% of students from other states	% of students from abroad
2011-12	100%	-	-
2012-13	100%		
2013-14	100%		
2014-15	97.22%	2.78%	

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, defense services, etc ?

29. Student Progression

Student progression	Against % enrolled			
	2011-12	2012-13	2013-14	2014-15
UG to PG	-			
PG to M.Phil.				
PG to Ph.D/Any other course	24%	49%	9%	31%
Ph.D to Post-Doctoral	-			
Employed				
-Campus selection				
-Other than campus recruitment	60%	46%	65%	42%
Entrepreneurship / Self –employment	16%	5%	26%	27%

30. Details of Infrastructural facilities:

a) Library

Maintained by Central Library

b) Internet facilities for staff & students

ISP	BSNL
Lease Line	20Mbps
Compression Ratio	1:1
Wi-Fi facility	Yes
Firewall	Cyberoam150NG
Router	Cisco SG300-28

Through Wi-Fi

c) Class rooms with ICT facility

03

Room Description	Usage	Shared/ Exclusive	Capacity	Rooms equipped with PC, internet, book rack, meeting space, etc.
L-29	Class room 2 <sup>nd</sup> Year	Exclusive	60	Desk, platform, fans, tube lights, Black board, Chairs, podium.
L-31	Class room 3 <sup>rd</sup> year	Exclusive	60	Desk, platform, fans, tube lights, green board, Chairs, podium.



d) Laboratories

Lab Description in Curriculum	Exclusive Use / shared	Space (Sq.m), Number of students	List of major equipments and no. of experiments	Quality of Instruments	Lab Manuals
C Programming Laboratory	Exclusive	100 sq. mt. 25	1. C Programming 2. Data structures using C 3. Analysis & Design Lab 4. OOPS with C++	Excellent	Available
Web Tech lab	Exclusive	100 Sq. Mt. 25	1. Web Programming Lab 2. Advanced Web programming lab 3. Unix Lab	Excellent	Available
Java Lab	Exclusive	100 sq. mt. 25 each	1. Java Programming lab 2. Advanced Java programming 3. Network Laboratory	Excellent	Available
. Net lab	Exclusive	100 sq. mt. 10 each	1. . Net programming Lab 2. Advanced programming Lab 3. Computer Graphics Lab	Excellent Intel P-4, 2.66 GHz PCs	Available

31. Number of students receiving financial assistance from college, university, government or other agencies 80%

**DEPARTMENT OF MCA**

Sl. No	Student Name	Dept.	Class	Year	Fees to be Returned
1.	Mallikarjun S/o Revanasidappa	MCA	Ist Year	2012-13	52100
2.	Varshabai D/o Baburao	MCA	Ist Year	2012-13	52100
3.	Biradar Rohini W/o Rajkumar	MCA	Ist Year	2012-13	52100
4.	Nagveni D/o Dhulappa	MCA	Ist Year	2012-13	52100
5.	Radhika D/o Chandrakant	MCA	Ist Year	2012-13	52100
6.	Sonabai D/o Laxmanrao	MCA	Ist Year	2012-13	52100
7.	Jyoti D/o Jagannath	MCA	Ist Year	2012-13	52100
8.	Ashwini D/o Jaganath Mankeri	MCA	Ist Year	2012-13	52100
9.	Shashikant S/o Shantayya Swamy	MCA	Ist Year	2012-13	52100
10.	Sunanda D/o Hanamantrao	MCA	Ist Year	2012-13	52100
11.	Geeta D/o Vaijinath	MCA	Ist Year	2012-13	52100
12.	Santoshkumar S/o Bhavanand	MCA	Ist Year	2012-13	52100
13.	Bharati D/o Amrutrao	MCA	Ist Year	2012-13	52100
14.	Prabhushetty S/o Gurupadappa	MCA	Ist Year	2012-13	52100

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15.	Mahesh S/o Veeranna	MCA	2nd Year	2012-13	52100
16.	Avinash S/o Ashok	MCA	2nd Year	2012-13	52100
17.	Santosh S/o Shankar	MCA	2nd Year	2012-13	52100
18.	Sunilkumar S/o Baburao	MCA	2nd Year	2012-13	52100
19.	Rakesh S/o Maharudrayya Biradar	MCA	2nd Year	2012-13	52100
20.	Revanappa S/o Kashamma	MCA	2nd Year	2012-13	52100
21.	Vijaykumar S/o Dattatri Lahute	MCA	2nd Year	2012-13	52100
22.	Markhandeshwar S/o Shankarrao	MCA	2nd Year	2012-13	52100
23.	Bhagyshri D/o Mahadevi	MCA	2nd Year	2012-13	52100
24.	Sujata D/o Rachappa Maka	MCA	2nd Year	2012-13	52100
25.	Parvati D/o Mallyya Swamy	MCA	2nd Year	2012-13	52100
26.	Mahananda D/o Vishwanath	MCA	2nd Year	2012-13	52100
27.	Deepavati D/o Baburao	MCA	2nd Year	2012-13	52100
28.	Asha D/o Mallikarjun	MCA	2nd Year	2012-13	52100
29.	Shilpa D/o Mallikarjun Sunte	MCA	2nd Year	2012-13	52100
30.	Basavashri D/o Ashok kumar	MCA	2nd Year	2012-13	52100
31.	Pradeep S/o Kanteppa	MCA	2nd Year	2012-13	52100
32.	Arunkumar S/o Shivaputra B.	MCA	2nd Year	2012-13	52100
33.	Md. Idreesh Ahmed S/o Md.Yousuf	MCA	2nd Year	2012-13	52100
34.	Anas Ali S/o Md. Ali	MCA	2nd Year	2012-13	52100
35.	Chetan S/o Channappa	MCA	3rd Year	2012-13	52100
36.	Gururaj S/o Bheemmarao	MCA	3rd Year	2012-13	52100
37.	Harish S/o Shivaputra Bhakare	MCA	3rd Year	2012-13	52100
38.	Ambika D/o Shivaputra Swamy	MCA	3rd Year	2012-13	52100
39.	Poornima D/o B.Jairaj Singh	MCA	3rd Year	2012-13	52100
40.	Ganesh S/o Abhangrao	MCA	3rd Year	2012-13	52100
41.	Mahalaxmi D/o Basavaraj Majge	MCA	3rd Year	2012-13	52100
42.	Siddaram S/o Parutappa	MCA	3rd Year	2012-13	52100
43.	S A Khader S/o Md. Nayeem	MCA	3rd Year	2012-13	52100
44.	Panchappa S/o Shivasharanappa	MCA	4th Year	2012-13	52100
<b>TOTAL</b>					

The following is the list of MCA students who have taken scholarship during 2013-14

Sl. No	STUDENT NAME SC/ST	SCHOLARSHIP AMOUNT	FUNDING AGENCY	Year
1.	Pavankumar S/o Shankar	53990	SWO, Bhalki	2013-14
2.	Usha D/o Vaijinathrao	53990	SWO, Bhalki	2013-14
3.	Rekha D/o Limbaji	56490	SWO, Bhalki	2013-14
4.	Santosh S/o Basavaraj	56490	SWO, Bhalki	2013-14
5.	Suvarna D/o Shivkanth	56490	SWO, Bhalki	2013-14
6.	Jagadevi D/o Bheemasha	56490	SWO, Bhalki	2013-14
7.	Amresh S/o Vaijnath	56490	SWO, Bhalki	2013-14
8.	Ramadevi D/o Sidram	56490	SWO, Bhalki	2013-14

## SELF STUDY REPORT (SSR)

9.	Amar S/o Trimbak	56490	SWO, Bhalki	2013-14
	<b>General</b>			
10.	Usha D/o Revanappa	40000	Hindulida Vargagala Kalyana Illakhe, Bidar	2013-14
11.	Thakur Manish S/o Ravindra Singh	40000		2013-14
12.	Kavyasri D/o Bandeppa Balte	40000		2013-14
13.	Shruti D/o Somshekhar	40000		2013-14
14.	Deepika D/o Isaac	40000		2013-14
15.	Siddaraj S/o Vijaykumar S	40000		2013-14
16.	Priya D/o Chandrappa	40000		2013-14
17.	Geeta D/o Ashok	40000		2013-14
18.	Siddamma D/o Mallikarjun	40000		2013-14
19.	Sonika D/o Sheshnarayan Doijode	40000		2013-14
20.	Rajshakar C	40000		2013-14
21.	Rohini Biradar	40000		2013-14
22.	Ashwini J	40000		2013-14
23.	Santoshkumar	40000		2013-14
24.	Santosh Shankar	40000		2013-14
25.	Parvati	40000		2013-14
26.	Deepavati	40000		2013-14
27.	Sujata	40000		2013-14
28.	Savita C	40000		2013-14
29.	Nandini U	40000		2013-14
30.	Vijaylaxmi B	40000		2013-14
31.	Rakesh M	40000		2013-14
32.	Narsing B	40000		2013-14
33.	Bhagyashree B	40000		2013-14
34.	Amit R	40000		2013-14
35.	Mahesh B	40000		2013-14
36.	Pradeep K	40000		2013-14

**The following is the list of MCA students who have taken scholarship during (2014-15)**

Sl. No	STUDENT NAME	SCHOLARSHIP AMOUNT	FUNDING AGENCY	Year
1.	Ambika D/o Shantappa	31240	Backward Classes	2014-15
2.	Ashwini D/o Vijaykumar	31240	“	2014-15
3.	Balkrishnaraj S/o Mallikarjun	31240	“	2014-15
4.	Chidanand S/o Vishwanthayya	31240	“	2014-15
5.	Neelambika D/o Shivakumar	31240	“	2014-15
6.	Priya D/o Dileepkumar	31240	“	2014-15
7.	Priyanka D/o Rajkumar	31240	“	2014-15
8.	Priyanka D/o Vaijinath	31240	“	2014-15
9.	Radhika D/o Kallappa	31240	“	2014-15
10.	Ranjita D/o Ratankumar	31240	“	2014-15

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11.	Sandhyarani D/o Kamalakar	31240	“	2014-15
12.	Sangamesh S/o Ramchandra	31240	“	2014-15
13.	Shilpa S/o Gundappa	31240	“	2014-15
14.	Shilpa S/o Shamrao	31240	“	2014-15
15.	Shruti	31240	“	2014-15
16.	Shruti D/o Bharath Patil	31240	“	2014-15
17.	Sudharani D/o Manik Patil	31240	“	2014-15
18.	Sunita D/o Chandrakanth	31240	“	2014-15
19.	Geeta D/o Ashok	31240	“	2014-15
20.	Kavyasri D/o Bandeppa Balte	29060	“	2014-15
21.	Mahesh S/o Baswaraj	29060	“	2014-15
22.	Sonika Doijode	29060	“	2014-15
23.	Santosh S/o Shivaraj	29060	“	2014-15
24.	Savita D/o Chandrakant	31240	“	2014-15
25.	Shruti D/o Somshekhar	31240	“	2014-15
26.	Siddamma D/o Mallikarjun	29060	“	2014-15
27.	Siddaraj Sajjanshetty	29060	“	2014-15
28.	Thakur Manish Singh	29060	“	2014-15
29.	Usha D/o Revanappa	31240	“	2014-15
30.	Ashwini D/o Jagannath	26735	“	2014-15
31.	Dnyaneshwar Shalivanrao	26735	“	2014-15
32.	Revanappa S/o Madeppa	26735	“	2014-15
33.	Santosh S/o Bhavrao	26735	“	2014-15
34.	Shruti S. Shetkar	26735	“	2014-15
35.	Sunilkumar S/o baburao	26735	“	2014-15
36.	Ashwini D/o Jagannath	28740	“	2014-15
37.	Bhagyashree D/o Mahalappa	26735	“	2014-15
38.	Biradar Rohini D/o Rajender	28740	“	2014-15
39.	Geeta D/o Vaijinath	26735	“	2014-15
40.	Jyoti D/o Jaganath Sulgunte	26735	“	2014-15
41.	Lingampalli Bharati	26735	“	2014-15
42.	Mahesh S/o Veeranna	26735	“	2014-15
43.	Nagaveni D/o Dhulappa	28915	“	2014-15
44.	Narsing S/o Baburao	26735	“	2014-15
45.	Pavankumar S/o Mallinath	26735	“	2014-15
46.	Pratibha D/o Prakash	28915	“	2014-15
47.	Radhika D/o Chandrakant	28915	“	2014-15
48.	SantoshKumar S/o Bhavanand	28915	“	2014-15
49.	Sonabai D/o Laxmanrao	26735	“	2014-15
50.	Sunanda D/o Hanmantrao	26735	“	2014-15
51.	Swamy Shashikanth S/o Shantayya	26735	“	2014-15
52.	Varshabai D/o Baburao	26735	“	2014-15
	<b>SC/ST</b>			
53.	Rekha L	55175	“	2014-15
54.	Pavankumar Varwatte	55125	“	2014-15
55.	Jagadevi B	55125	“	2014-15
56.	Chiranjeevi S/o Sharanappa	55125	“	2014-15
57.	Suvarna S	55125	“	2014-15

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58.	Shreekanth S/o Shankar	55125	“	2014-15
59.	Askar Farnandis S/o Sangram	55125	“	2014-15
60.	Arunkumar S/o Ambadas	55125	“	2014-15
61.	Kavita D/o Kantesh Kumar	55125	“	2014-15
62.	Rajeshree Pawar	55125	“	2014-15
63.	Ramadevi S	55125	“	2014-15
64.	Satish S	55125	“	2014-15

32. Details on student enrichment programmes (special lectures / workshop / seminar )  
with external experts

1. Basics and Advanced in Dot Net Technology - Mr. Nagasai – Development  
Manager CapGemini

33. Teaching methods adopted to improve student learning

- i) Conducting Seminars to improve the Stage courage
- ii) Giving Assignments from the Last three Question papers
- iii) Conducting Group Discussion on relevant topics

34. Participation in Institutional social Responsibility (ISR) and Extension activities

- i) Participating in NSS activities
- ii) Flood Relief team

35. SWOC analysis of the department and future plans:

Strengths, Weaknesses, Opportunities and Threats (SWOT)

### Strengths:

- 1) Qualified faculties and negligible attrition
- 2) Talented, dedicated and self motivated staff
- 3) Knowledgeable and cooperative faculty, great collaboration and good communication among faculty.
- 4) Strong research potential with high quality research, relatively good faculty members in research
- 5) Strong department level support for faculty research activities
- 6) Faculties are active in publication activities.
- 7) Strong leadership Qualities
- 8) Supportive working environment among department members
- 9) Excellent administrative support

### Weakness:

- 1) Little student participation in co-operation of program and internships.
- 2) Need to involve more students in project activities.
- 3) Lack of activities between faculty, students (hectic syllabus)
- 4) Not many strong publications by students.
- 5) Develop more national/state level grant proposals and increase/establish funds

- 6) Limited program visibility and corresponding limited ability for student to grow beyond classrooms

**Opportunities:**

1. Attract more eligible graduate students into our courses(the trend is improving)
2. Increase engagement/external through new center of excellence (Internet Of Things)
3. Opportunities to find research grants from industry and government agencies
4. Opportunities to team up with other private universities
5. Graduate and Undergraduate Programs Enhancement
6. Boost researchers with funding and compensation.
7. Maintaining and utilizing better contact to our alumni (Outing with present students and alumni's)

**Threats:**

1. Companies not recruiting post graduates

## Evaluative Report of the Applied Science and Humanities Department

1. Name of the department: **Applied Science and Humanities (AS& H)**
2. Year of Establishment: **1982**
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Ph.D., etc.): **UG, PG & Ph. D**
4. Names of Interdisciplinary courses and the departments/units involved: **All UG and PG in Digital Communication & Network (DCN) of E&CE ,Computer Science& Engineering of CSE and Water Resource Management (WRM) of Civil Engg. Department.**
5. Choice based credit system (programme wise):
  - a. **UG- Credit system w.e.f. 2015-16 : 200 credits as per VTU norms (Only for 1<sup>st</sup> year)**
  - b. **PG-Semester System:**
  - c. **Ph.D : Publications, through evaluation process.**
6. Participation of the department in the courses offered by other departments: **Engaging Classes of all the UG courses up to 4<sup>th</sup> Semester & 1<sup>st</sup> Semester PG courses of E & CE and Civil**
7. Courses in collaboration with other universities, industries, foreign institutions, etc.-**NIL**
8. Details of courses/programmes discontinued (if any) with reasons- **NIL**
9. Number of teaching posts:

Teaching Post	UG		PG	
	Sanctioned	Filled	Sanctioned	Filled
Professors	03	03	NA	NA
Associate Professors	04	04	01	01
Asst. Professors	10	12	NA	NA

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)

Sl. No.	Name of the Faculty Members	Qualification	Designation	Specialization	No. of Teaching Experience	Number of Ph.D. students guided for the last 4 years
1	Dr. Siddaram Panshetty	M.Sc. Ph.D	Professor	Mathematics	38	Nil
2	Dr. Lingappa Udchan	M.Sc. Ph.D	Professor	Physics	43	02
3	Dr. Ashok kumar S	M.Sc. Ph.D	Professor	Chemistry	35	Nil
4	Dr. AshokKumar Koti	M.Sc. Ph.D	Associate Professor	Mathematics	24	Nil
5	Dr. Vijayakumar Durg	M.Sc. Ph.D	Associate Professor	Chemistry	24	Nil
6	Dr. Sangshetty K.	M.Sc. Ph.D	Associate Professor	Physics	22	02
7	Dr. Vijay Bhushan Jha	M.A. Ph.D	Associate Professor	English	28	Nil
8	Dr. Udaykumar khadke	M.Sc. Ph.D	Associate Professor	Physics	18	04
9	Vithalrao Biradar	M.Sc.	Asst. Professor	Mathematics	26	NA
10	Dr. Anil Kodge	M.Sc. Ph.D	Asst. Professor	Chemistry	18	Nil
11	Dr. Geetanjali Alle	M.Sc. Ph.D	Asst. Professor	Mathematics	17	Nil
12	Dayanand K.	M.Sc. M. Phil	Asst. Professor	Mathematics	16	NA
13	Dr. Jagadish Tawade	M.Sc. Ph.D	Asst. Professor	Mathematics	07	02
14	Nagaraj Patil	M.Sc.	Asst. Professor	Physics	18	NA
15	Jairaj Math	M.A.	Asst. Professor	Political Science	18	NA
16	Vijayshri B.	M.Sc.	Asst. Professor	Mathematics	3	NA
17	Sumashri	M.Sc.	Asst. Professor	Mathematics	1	NA
18	Omkar K	M.Sc.	Asst. Professor	Mathematics	1	NA
19	Md. Nadeem Miyan	M.Sc.	Asst. Professor	Chemistry	2	NA
20	Vaishali Beerge	M.Sc.	Asst. Professor	Physics	1	NA



## SELF STUDY REPORT (SSR)

11. List of senior visiting faculty- **All classes are held by regular faculty members**  
 12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty- **01**  
 13. Student -Teacher Ratio (programme wise): 1:15

Programme of Study	No. of Students	No. of Teachers	Student - Teacher Ratio
UG+PG	UG: 630 (1 <sup>st</sup> year ) + PG: 18 CV +18 EC = 614	<b>45</b>	<b>1:15</b>

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Staff type	Sanctioned	Filled
Academic Support Staff (technical)	02	02
Administrative Staff	02	02

15. Qualifications of teaching faculty with Ph.D/ M.Phil / PG.

Ph. D.	12
M. Phil	01
Ph. D. pursuing	04
PG	02

16. Number of faculty with ongoing projects from National

Sl. No	Title of the Project	National / International	Funding Agency	Principal Investigator & Co-Investigator	Year	Amount Sanctioned
1	Boundary layer theory, MHD flows, visco-elastic fluid flows, power law fluids over a stretching sheet with/without porous medium.	National	VGST Bangalore	Dr. Ashokkumar Koti	2014-15	30 lacs
2	Synthesis, Characterization, Electrical and Biological studies of Metal Complexes of some Trizole Schiff basis.	National	VGST Bangalore	Dr. Vijaykumar Durg	2013-14	20 lacs
3	Center of excellence in Polymer Science & Engg.	National	VGST Bangalore	Dr. Sangshetty Kalyane	2013-14	30 lacs

## SELF STUDY REPORT (SSR)

4	Development of Energy Spectrometer to Measure Energy of Radiation Concentration	National	VGST Bangalore	Dr. Udaykumar Khadke	2013-14	20 Lacs
5	Boundary layer theory for Newtonian, non- Newtonian fluids, Nano-fluids of momentum, heat and mass transfer over a stretching sheet.	National	VGST Bangalore	Dr.Jagadish Tawade	2013-14	06 lacs

**b) International funding agencies and grants received- Nil**

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total Grants received: **NIL**

18. Research Centre /facility recognized by the University:

**a) State Recognition:**

Department	Name of the research centre	Recognized by
AS&H	Mathematics	VTU Belagavi
AS&H	Physics	VTU Belagavi
AS&H	Chemistry	VTU Belagavi

**b) National Recognition: Nil**

**c) International Recognition: Nil**

**19. Publications:: 115**

- Publication per faculty:- **08**
- Number of papers published in peer reviewed journals (national /International) by faculty and students:- **102**
- Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare
- Database - International Social Science Directory, EBSCO host, etc.): - **103**
- Monographs\* Chapter in Books\* Books Edited:- **01**
- Books with ISBN/ISSN numbers with details of publishers: **NIL**
- Citation Index:- **200**
- SNIP (Highest range): **0.9 - 4.5**
- SJR:- (Highest range): **0.192 - 3.3**
- Impact factor:- **0.3 to 8.514**
- h-index:- **10**

## SELF STUDY REPORT (SSR)

### Publications: 115

Sl. No.	Year	Papers Published in International Journal	Papers Published in National Journal	Papers Published in International Conference	Papers Published in National Conference	Total
1.	2011-12	12	03	03	03	21
2.	2012-13	16	05	01	04	26
3.	2013-14	18	03	00	05	26
4.	2014-15	10	04	00	06	20
5	2015-16	10	04	00	08	22
	Total	66	19	04	26	115

20. Areas of consultancy and income generated- Nil

21. Faculty as members in

- National committees: Nil
- International Committees: 01
- Editorial Boards: 08
- ISTE Life Membership (LM):09
- ISCA (LM): 02
- IETE Members: Nil

22. Student projects

- Percentage of students who have done in-house projects including inter departmental/programme -NA
- Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies- NA

23. Awards / Recognitions received by faculty and students :

- Every year we give cash prize and certificate to the candidates who scores highest marks i.e., the candidates Will get Rs. 5000/- cash prize and Rs. 10,000/- whose percentage is 85 and above.

Sl. No.	Name of the Student	Details of the Award	National /International	Year
1	Cahitanny Bharati	Merit Scholarship (Cash Prize)	Institutional level	2014
2	Bhagyashree	Cash Prize (for securing 100 marks in 10MAT41)	Institutional level	2015

## SELF STUDY REPORT (SSR)

Sl. No	Name of the Staff	Details of the Award	National /International	Year
1	Dr. Udaykumar Khadke	Visiting Fellow of JNCASR Bangalore	National	2015

24. List of eminent academicians and scientists / visitors to the department:

Sl. No.	Name of Faculty	Organization	Year	Purpose of Visit
1.	Dr. Udaykumar Khadke	Jain College, Belagavi	Feb-2013	As Keynote speaker National Level FDP in Innovative ideas of Teaching and Learning Skills
2	Mr. Daurukesh BHM	Scientist F, ISRO Bangalore	Aug – 2014	Addressing to the students of first year about the opportunities after their B.E
3	Dr. S. Ananth Raj	Vision Group on Science and Technology, Dept. of IT, BT and S & T, Govt. of Karnataka, Bangalore	March-2014	Addressed to the faculties about the various Projects under VGST
4	Dr. Arun M Umarji	MRC IISc, Bangalore	Feb-2016	Addressed to the faculties about the research
5	Dr. M. Subhas Abel	Professor (Rtd), Dept. of Mathematics, Gulbarga University, Kalaburgi.	May-2016	For delivering a special lecture on Recent trends in Fluid Mechanics for the faculties
6	Dr. Veena P H	Prof. & Head, Dept. of mathematics, V.G.Womes Degree College, Kalaburgi	May-2016	For delivering a special lecture on Innovated ideas in teaching and Learning skills for Faculties

25. Seminars/ Conferences/Workshops organized & the source of funding

a) National

Title of Seminars/ FDP/ Conferences/Workshops etc...	National	International	Duration	Source of Funding
FDP on Innovative Ideas of Teaching and Learning Skills (Organized by the Dept. of AS & H, BKIT, Bhalki)	National	-	22 & 23 Feb 2013	ISTE & Self

## SELF STUDY REPORT (SSR)

b) International ; NIL

26. Student profile programme/course wise:

Academic year	Name of the Course/ programme	Applications received	Selected	Enrolled		Pass Percentage
				M	*F	
2015-16	ME,CV,ECE, CS,CH	550	518	43	175	83.54
2014-15	ME,CV,ECE, CS,CH	513	513	37	176	82.74
2013-14	ME,CV,ECE,CS,CH	580	571	96	175	83.38
2012-13	ME,CV,ECE,CS,CH	500	490	46	144	79.03
2012-13	ME,CV,ECE,CS,CH	400	347	40	107	55.96

27. Diversity of Students

Year	Name of the Course	% students from the same state	% of students from other	% of students from abroad
2011-12	ME,CV,ECE,CS,CH	268	79	-
2012-13	ME,CV,ECE,CS,CH	401	89	-
2013-14	ME,CV,ECE,CS,CH	508	63	-
2014-15	ME,CV,ECE,CS,CH	469	44	13
2015-16	ME,CV,ECE,CS,CH	476	34	08

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? **NA**

29. Student progression- **NA**

30. Details of Infrastructural facilities

a) Library: AS and H department has 800 volumes which includes core subjects like, Engg. Mathematics, Engg. Physics, Engg. Chemistry, Electrical Science, Basic Electronics, CAED, PCD and 404 Volumes of Kannada literature are being shared with Central library.

i) Seating capacity:

ii) Library holdings:

## SELF STUDY REPORT (SSR)

Library Holdings	No. of Volumes
Books	800
Journals/periodicals	02
Newspapers	02
E-resources	IEEE, Springer,
Project reports	-
Seminar reports	-
Hardware Mini Projects	-
Vocational Training Report	-

### b) Internet facilities for Staff & Students

ISP	BSNL
Lease Line	40Mbps
Compression Ratio	1:1
Wi-Fi facility	Yes
Firewall	Cyberoam150NG
Router	Cisco SG300-28

c) Class rooms with ICT facility: **06 class rooms with LCD projector**, (D2, L6, L7, L8,L9, L10 ) and also we have 05 interactive panels for advance teaching

### Details of Laboratories

Sl. No.	Name of the Laboratory	Carpet Area (Sq.mt.)	Major equipments	Total Investment till Date
1	Engg. Chemistry Lab	206 Sq. mt.	pH Meter Spectrophotometer, Conductivity Meter, Flame Photometer, Potentiometer, Muffle Furnace, Hot Air Oven	11,16,909 = 00
2	Research Centre	25 Sq. mt.	Automatic Melting Point Apparatus, Mini quartz Distiller XL – RSH Series, Water bath , Fume Hood, Scientific Microwave Synthesizer, Gouy Apparatus, B&S Media Monitor (Interactive Panel), JPM T19 19”	8.04 lakhs
3	Engg. Physics Lab	206 Sq. mt.	Series & Parallel Resonance Board, Photo diode, Laser Source Grating Stand, Torsional pendulum, Connection leads, Banana socket, Voltmeter Digital, Thermometer Digital with probe, Stop watch Digital, Diffraction Grating 250LPI for Laser, Bending of Beam App., Digital Millimeter, Temperature	5,75,553=00

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			Co-efficient Coil , Green Laser	
4	Mathematics	25 sq. Mtrs	Desktop computers- 05 Laptops-02 Printers- 02 Software's( Mathematica-01, Matlab- 01, SciLab-01,Origin-01) Interactive Panels- 02 Projector- 01	14 Lakhs

31. Number of students receiving financial assistance from college, university, government or other agencies

Sl. No	Category	Year	No. of Students received Scholarship	College, University, Government or other agencies
1	SC & ST	2012-13	163	Govt. of Karnataka
	OBS		706	Govt. of Karnataka
	Other category		-	
2	SC & ST	2013-14	312	Govt. of Karnataka
	OBS		617	Govt. of Karnataka
	Other category		-	
3	SC & ST	2014-15	292	Govt. of Karnataka
	OBS		1098	Govt. of Karnataka
	Other category		-	

32. Details on student enrichment programmes (special lectures / workshops /seminar) with external experts

Sl. No	Programme	From- To
1	Arranged the Four Days personality development Program in the college by Dr. Jagannath Rao,	April 2014 29 - 30th April 2015
2	Lead National By George Selliah, MD Lead nation	29 - 30th March 2015
3	Deshpande Foundation Hubli, By Mr. Neelkanth	29 - 30th March 2016
4	Inaugurated the NSS Foundation day and addressed to the students by Shri. Malagatti, PSI, Bhalki town police station	24-09-2014

**33. Teaching methods adopted to improve student learning****a) Student e-Learning:**

- i. Creating effective learning environments, and environments where students are actively participating and engaged with the material are crucial to student learning.
- ii. A commonly-used, web-based learning styles inventory
- iii. Recently VTU E-learning centre Mysore has supplied 500 CD's to our department and the same is distributed to the all the students of BE first year.

**34. Exploring teaching strategies:**

- i. promote active engagement and participation of students in the classroom
- ii. Making lectures more interactive
- iii. Create a Culture of Explanation Instead of a Culture of the Right Answer
- iv. Project-learning teaching strategies can improve everyday classroom experience.
- v. Use Questioning Strategies That Make All Students Think and Answer

**34. Participation in Institutional Social Responsibility (ISR) and Extension activities: Yes**

<b>Sl. No</b>	<b>Programme</b>	<b>Date</b>
1	Participating in the Blood donation camp organized by NSS unit of BKIT, Bhalki	20-08-2015
2	Arranged the camp at Donagapur Village of Tq. Bhalki by NSS unit, during the camp free Eye and Dental checkup is arranged at the village.	18-03-2014
3	Blood donation drive Training Camp by Sankalp foundation organized by NSS unit	16-09-2014
4	Blood donation Camp by NSS unit	09-11-2013

**35. SWOC analysis of the department and Future plans****STRENGTH:**

1. Highly qualifies and dedicated faculty to impart the qualitative technical education and research.
2. Very cooperative management Team
3. Well established infrastructure and effective monitoring system for students.
4. Content beyond the syllabus is cover



5. Encouraging always for extracurricular to the students
6. Most committed and stable faculties in Hyderabad- Karnataka Region.
7. We always encourage our students for motivating in order to nurture their future by conducting personality development programmes by a team of senior expert trainers from reputed organizations every year.

### **WEAKNESS:**

1. Location disadvantage in terms of industry connectivity.
2. Very weak communication skills
3. Getting academically weak students at the first year level.

### **OPPORTUNITIES:**

1. The growing awareness on needs improved capacities for the staff to meet the demands of the students.
2. Advanced teaching aids in each and every class of our Department.
3. Department faculties are publishing highly qualitative research articles of international repute.
4. A new language lab for improving the communication skills of the students

### **CHALLENGES:**

- (a) To create subject interest in students throughout the course (in the era of Physics, Chemistry, Mathematics and all other first year common subjects, this is an extremely difficult task.)
- (b) To provide Quality teaching with publication based research
- (c) To provide Quality education that prepares students for a global work environment with the existing faculty workload, finance and space.

### ANNEXURE – I

#### ABBREVIATIONS USED IN THE REPORT

Abbreviations	Detail
AICTE	All India Council for Technical Education
AIEEE	All India Entrance Examination for Engineering
ASH	Applied Science and Humanities
BCM	Backward Class Minority
BKIT	Bheemanna Khandre Institute of Technology
BE	Bachelor of Engineering
BoE	Board of Examination
BoS	Board of Studies
B.Tech	Bachelor of Technology
BPMS	BKIT Performance Management System
CAPA	Corrective Action & Preventive Action
CAR	Continuous Assessment Report
CD	Compact Disk
CII	Confederate of Indian Industries
CNC	Computer Numerical Control
CoE	Controller of Examination
CS/ CSE	Computer Science & Engineering
CSIR	Council for Scientific & Industrial Research
DST	Department of Science & Technology
DTE	Director of Technical Education
DVD	Digital Video Drives
E- Learn	Electronic Learning
EC/ ECE	Electronics & Communication Engineering
EEE	Electrical & Electronics Engineering
FDP	Faculty Development Program
GATE	Graduate Aptitude Test in Engineering
GMAT	Graduate Management Aptitude Test
GRE	Graduate Record Examination
GTRE	Gas Turbine Research Establishment
HAL	Hindustan Aeronautics LTD
HOD	Head of the Department
HR	Human Resource
ICT	Information & Communications Technology
ID	Identity Card
III	Industry Institute Interaction
IISC	Indian Institute of Science
IIT	Indian Institute of Technology
ILL	Inter Library Loan Service
IP	Internet Protocol
IPR	Intellectual Property Rights
IQAC	Internal Quality Assurance Cell
IS/ ISE	Information Science Engineering
ISO	International Organization for Standardization

ISRO	Indian Space Research Organization
KCET	Karnataka Common Entrance Test
KSCST	Karnataka State Council for Science & Technology
LCD	liquid Crystal Display
LIC	Local Inspection Committee
M.Phil	Master of Philosophy
MBA	Master of Business Administration
MCA	Master of Computer Application
ME	Master of Engineering
MNC	Multi National Companies
M.Tech.	Master of Technology
NAAC	National Assessment & Accreditation Council
NAL	National Aeronautics Laboratories
NBA	National Board of Accreditation
NET/SLET	National Eligibility Test/ State Level Eligibility Test
NGO	Non Government Organization
NPTEL	National Programme on Technology Enhanced Learning
NRI	Non Resident Indian
OBC	Other Backward Class
OER	Open Educational Resources
OPAC	Online Public Access Catalogue
PC	Personal Computer
PF	Provident Fund
PG	Post Graduate
QIP	Quality improvement Program
R & D	Research & Development
RO	Reverse Osmosis
RTO	Regional Transport Office
SC	Schedule Caste
SMS	Short Messaging Service
SNQ	Super Numerary Quota
SSR	Self Study Report
ST	Schedule Tribe
STTP	Short Term Training Program
SVES	Shantivardhak Education Society's
SWD	Social Welfare Department
SWOC	Strength, Weakness, Opportunities & Challenges
T & P	Training & Placement
TCS	Tata Consultancy Services
TFWS	Tuition Fee Waiver Scheme
TOEFL	Test of English as a Foreign Language
UG	Under Graduate
UGC	University Grants Commission
UPS	Uninterrupted Power Supply
VTU	Visvesvaraya Technological University

# SELF STUDY REPORT (SSR)

## ANNEXURE – II

### PROOF OF RECOGNITION OF THE COLLEGE UNDER SECTION 2(F)

Ph. 23236351, 23232701, 23237721  
23234116, 23235733, 23232317  
23236735, 23239437, 23239627

Extension No. 413 (CPP-I Colleges)  
UGC Website: [www.ugc.ac.in](http://www.ugc.ac.in)  
F. No. 8-50/2013 (CPP-I/C)

ज्ञान-विज्ञान विमुक्तये  
SPEED POST

विश्वविद्यालय अनुदान आयोग  
बहादुरशाह जफर मार्ग  
नई दिल्ली-110 002  
UNIVERSITY GRANTS COMMISSION  
BAHADURSHAH ZAFAR MARG  
NEW DELHI-110 002

July, 2013

4 JUL 2013

The Registrar,  
Visvesvaraya Technological University  
"Jnana Sangama", Machhe  
Belgaum – 590 014  
Karnataka

Sub: - Recognition of College under Section 2 (f) of the UGC Act, 1956.

Sir,

I am directed to refer to the letter no. BKIT/UGC/2012-13/2351 dated 20.03.2013 received from the Principal, Bheemanna Khandre Institute of Technology, Bhalki – 585 328, District Bidar, Karnataka on the above subject and to say that it is noted that the College is **un-aided/self financed** and on **temporary** affiliation to **Visvesvaraya Technological University, Belgaum**. I am further to say that the name of the following College has been included in the list of Colleges prepared under Section 2 (f) of the UGC Act, 1956 under the head **Non-Government** Colleges teaching upto **Master's** Degree:-

Name of the College	Year of Establishment	Remarks
Bheemanna Khandre Institute of Technology, Bhalki – 585 328, District Bidar, Karnataka.	1982	The college does not fulfill the requirement of permanent affiliation. Therefore, the college is <b>not</b> eligible to receive Central assistance under Section 12 (B) of the UGC Act, 1956.

The Indemnity Bond and the other supporting documents submitted in respect of the above College have been accepted by the University Grants Commission.

Yours faithfully,  
(P.K. Sharma)  
Under Secretary

Copy to:-

1. The Principal, Bheemanna Khandre Institute of Technology, Bhalki – 585 328, District Bidar, Karnataka.
2. The Secretary, Government of India, Ministry of Human Resource Development, Department of Higher Education, Shastri Bhavan, New Delhi – 110 001.
3. The Principal Secretary (Higher Education), Government of Karnataka, K.G.S. 6<sup>th</sup> Floor, M.S. Building, R. No. 645, Dr. B.R. Ambedkar Road, Bangalore – 560 001, (Karnataka).
4. The Deputy Secretary, UGC, South - Western Regional Office (SWRO), Prasanna Kumar Block, Palace Road, Bangalore - 560 009, (Karnataka).
5. Publication Officer (Website-UGC), New Delhi.
6. Section Officer (F.D.-III Section), U.G.C., New Delhi
7. Guard file.

to all Heads  
for records & m. a.  
107 2013

Bheemanna Khandre Institute of Technology, BHALKI  
Inward No. 474  
Date: 10/7/13

(Sunita Gulati)  
Section Officer



## ANNEXURE – III

### PROOF OF RECOGNITION / APPROVAL LETTERS BY AICTE & VTU



All India Council for Technical Education  
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

F.No. South-West/1-2456006043/2015/EOA/Corrigendum-1

Date: 28-Apr-2015

#### Corrigendum

To,  
The Principal Secretary (Hr. & Tech Education)  
Govt. of Karnataka, K. G.S., 6th Floor,  
M.S. Building, R. N. 645, Dr. B. R. Ambedkar Road,  
Bangalore-560001

Sub: Extension of approval for the academic year 2015-16.

Ref: Application of the Institution for Extension of Approval for the Year 2015-16

EOA Issued on	F.No. South-West/1-2456006043/2015/EOA	07-Apr-2015
EOA Printed on	F.No. South-West/1-2456006043/2015/EOA	27-Apr-2015
Corrigendum 1	F.No. South-West/1-2456006043/2015/EOA/Corrigendu	28-Apr-2015

Sir/Madam,

In partial modification of the letter F.No. South-West/1-2456006043/2015/EOA and in terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F-No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Regional Office	South-West	Application Id	1-2456006043
		Permanent Id	1-1726621
Name of the Institute	BHEEMANNA KHANDRE INSTITUTE OF TECHNOLOGY	Institute Address	BHALKI-HUMNABAD ROAD, BHALKI- 585328 DIST. BIDAR KARNATAKA, BHALKI, BIDAR, Karnataka, 585328
Name of the Society/Trust	SHANTI VARDHAK EDUCATION SOCIETY	Society/Trust Address	BHALKI-HUMNABAD ROAD, BHALKI, BHALKI, BIDAR, Karnataka, 585328
Institute Type	Unaided - Private		

Opted for change from Women to Co-ed	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable

To conduct following courses with the intake indicated below for the academic year 2015-16

Printed By : ae851902



*[Signature]*  
PRINCIPAL  
Bheemanna Khandre Institute  
of Technology, BHALKI

# SELF STUDY REPORT (SSR)



All India Council for Technical Education  
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-India.org](http://www.aicte-India.org)

Application Id: 1-2456006043			Course	Course Unique Id	Full/Part Time	Affiliating Body	Intake Approved for 2013-14	Intake Approved for 2014-15	Intake Approved for 2015-16	NRI Approval Status	PIO Approval Status	Foreign Collaboration Approval Status
Program	Shift	Level										
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRAD UATE	CHEMICAL ENGINEERING	1-1341155849	FULL TIME	Vesveswariyah Technological University, Belgaum	30	30	30	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRAD UATE	CIVIL ENGINEERING	1-1341155858	FULL TIME	Vesveswariyah Technological University, Belgaum	120	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRAD UATE	COMPUTER SCIENCE AND ENGINEERING	1-1341155860	FULL TIME	Vesveswariyah Technological University, Belgaum	120	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRAD UATE	ELECTRONICS & COMMUNICATION ENGG	1-1341155862	FULL TIME	Vesveswariyah Technological University, Belgaum	180	180	180	NA	NA	NA
MCA	1st Shift	POST GRAD UATE	MASTERS IN COMPUTER APPLICATIONS	1-1341155864	FULL TIME	Vesveswariyah Technological University, Belgaum	60	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRAD UATE	GEOTECHNICAL ENGINEERING	1-1341155868	FULL TIME	Vesveswariyah Technological University, Belgaum	18	18	18	NA	NA	NA

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*[Signature]*  
PRINCIPAL  
Bheemanna Khandre Institute  
of Technology, BHALKI



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Application Id: 1-2456006043			Course	Course Unique Id	Full/Part Time	Affiliating Body	Intake Approved for 2013-14	Intake Approved for 2014-15	Intake Approved for 2015-16	NRI Approval Status	P/O Approval Status	Foreign Collaboration Approval Status
Program	Shift	Level										
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRAD UATE	WATER RESOU RCE MANAG EMENT	1-1341155870	FULL TIME	Vesveswara iah Technologic al University, Belgaum	18	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRAD UATE	MECHA NICAL ENGIN EERING	1-1341155872	FULL TIME	Vesveswara iah Technologic al University, Belgaum	180	180	180	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRAD UATE	DIGITA L COMM UNICA TIONS AND NETW ORKIN G	1-1485294775	FULL TIME	Vesveswara iah Technologic al University, Belgaum	18	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRAD UATE	COMP UTER SCIEN CE AND ENGIN EERING	1-1485351772	FULL TIME	Vesveswara iah Technologic al University, Belgaum	18	18	18	NA	NA	NA

- Validity of the course details may be verified at [www.aicte-india.org/departments/approvals](http://www.aicte-india.org/departments/approvals)

The above mentioned approval is subject to the condition that BHEEMANNA KHANDRE INSTITUTE OF TECHNOLOGY shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Printed By : ae851902



*[Signature]*  
**PRINCIPAL**  
Bheemanna Khandre Institute  
of Technology, BHALKI

# SELF STUDY REPORT (SSR)



All India Council for Technical Education  
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Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.


Dr. Avinash S Pant  
Actg. Chairman, AICTE

Copy to:

1. **The Regional Officer,**  
All India Council for Technical Education  
Health Centre Building  
Bangalore University Campus  
Bangalore - 560 009, Karnataka
2. **The Director Of Technical Education,**  
Karnataka
3. **The Principal / Director,**  
BHEEMANNA KHANDRE INSTITUTE OF TECHNOLOGY  
BHALKI-HUMNABAD ROAD,  
BHALKI- 585328  
DIST. BIDAR  
KARNATAKA,  
BHALKI, BIDAR,  
Karnataka, 585328
4. **The Secretary / Chairman,**  
SHANTI VARDHAK EDUCATION SOCIETY  
BHALKI-HUMNABAD ROAD, BHALKI,  
BHALKI, BIDAR,  
Karnataka, 585328
5. **Guard File(AICTE)**

Printed By : ae851902



  
**PRINCIPAL**  
Bheemanna Khandre Institute  
of Technology  
Bhalki, Bidar, Karnataka