

Curriculum Vitae

Dr. Rajashekar Matpathi

M.E-DESIGN ENGG., Ph.D., MIE
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Academic Chronicle:

1. **Ph.D. (Mechanical Engineering)** from **Visvesvaraya Technological University** Belagavi, India in June. 2020.

Thesis: Simulation, Analysis & Design of Low-cost Automation Farm Machine System

2. **M. E. (DESIGN ENGG.)** from Walchand Institute of Technology, (WIT) Solapur, Maharashtra, India, in 2010.

Dissertation: *The study of Geometric Parameters & the induced stresses in Spur gear tooth using Finite Element Method*

3. **B.E (Mechanical Engineering)** from Siddaganga Institute of Technology, (SIT) Tumkuru, Karnataka, in 1996.

Live project: Tool Design for FWD-Door of Light Combat Aircraft (LCA) at **ADA Design complex, and Tool Room, HAL,** Bangalore during 1996.

4. **D.M.E** from C.P.C **Govt. Polytechnic, Mysore,** Karnataka, in 1992.

Project: Design and Manufacturing of Arecanut Pulverizer

5. **S.S.L.C** from SPV High School, Mavinahalli, Gubbi: Taluka, Tumkuru,
6. **School Education:** Government School, Mavinahalli., Gubbi, Tumkuru,

WORK EXPERIENCE, Publications,Book,Patent,Projects,FDP

Work Experience	28 Years
Achievements	22
Total Publications	28
No. of Papers in International Journals	10
No. of Papers in National Journals	03
No. of Papers in International Conferences	11
No. of Papers in National Conferences	06
Textbooks with ISBN No.	03
Kannada Reviewer AICTE book Engineering Graphics and Design	01
Indian Patent	01
Inspire Projects Evaluated, New Delhi	37
State Level Projects	11
FDP/workshop/STTP/Webinar Attended	42 offline-18 +online 26
FDP/workshop/STTP/Webinar Organized	33 offline-12 +online 21
NPTEL IIT Courses	12
Professional Memberships	04

WORK EXPERIENCE

- ✚ Professor at BKIT, Bhalki since 1st February 2022
- ✚ Assco.Professor at BKIT, Bhalki from Jan 2016
- ✚ Asst.Professor at BKIT, Bhalki from 1st Jan 2009 to. Dec 2011
- ✚ Lecturer at BKIT, Bhalki from 12th Jan 2001 to. Jan 2009
- ✚ Guest Lecturer at **Haralliah Polytechnic**, Bhalki 2001 -2008
- ✚ Head of Mech. Engg., I/c **Principal Cauvery polytechnic** 1998 - 2001
- ✚ Guest Lecturer at **Govt. Polytechnic, Kushalnagar** 1999-2001
- ✚ Maintenance Engineer at **Cimitrics Systems Pvt. Limited, Bangalore** September 1997 to May 1998
- ✚ CNC Engineer at **AEW-Ancillary to BEL**, Bangalore **June** 1996 to September 1997

ACHIVEMENTS:

1. Successfully reviewed a book on **Engineering Graphics and Design** Kannada translated version as per NEP **AICTE curriculum** for **Khanna Publishers**, New Delhi

2. Published book as co-author on **Emerging Trends In Mechanical Engineering** with ISBN: 978-93-5583-089-0D6-28A for MSBTE Maharashtra in Tech-Neo Publications, Pune.
3. Published book as co-author on **Heating, Ventilation, Air conditioning & Refrigeration** with ISBN: 978-93-5583-02-03 for **Mumbai** University in Tech-Neo Publications, Pune.
4. Published book as co-author on **Internal Combustion Engine** with ISBN: 978-93-91472-37-5 for Gujrat Technological University in Tech-Neo Publications, Pune.
5. Published an **Indian patent** with publication number 17/2021 on “**Development of Brown gas based Thermo Jet type Engine**”
6. Guided total **11 state level projects** with financial grant **KSCST-02, ANVESHANA-04, VTU-03; Live Projects** for Mepstra Pvt.Ltd. Hyderabad -02
7. **Total 37 Projects** evaluated and recommended 4 best projects for **INSPIRE Awards-MANAK 2020-21**, New Delhi
8. Started “**Centre of Excellence in CAE**” in Collaboration with COPES Tech India Pvt. Ltd., Bengaluru.
9. Working as **State IT cell coordinator** for Karnataka Jnana Vijnana Samithi – **KJVS**, Bengaluru.
10. Selected in Training for **SLA-Student Learning Assessment Program** organized by **AICTE New Delhi and Stanford University, USA**.
11. Got Sanctioned Five **PMKVY -Skills** Training at BKIT Bhalki as **Skill Coordinator**
12. Signed **18 MOU** with various Industries from Hyderabad, Pune, Kolkata, and Bengaluru.
13. Successful conduction of “**21st State level ISTE convention for Faculty**” at **BKIT, Bhalki**.
14. Responsible for Organizing **National level online SWAYAM-NPTEL workshop** on 28th July 2020. During workshop **2,396 participants** were registered and **13,303 aspirants** were viewed on **You Tube live** stream.
15. Responsible for Conducting **online 20 National level STTP/FDP/Workshops** for Quality enhancement of teaching and Learning Processes and Bridging gap between Industry and Academia during Covid pandemic.

16. Responsible for making **largest membership drive in the history of ISTE for ISTE Student chapter as well as Faculty Chapter** as ISTE Secretary.
17. Responsible for **starting Janani, E-TIME Club, Green Club, Technotstava, Mech-Mantra Wall Magazine and MEGA BYTE National level Symposium** at campus and organized various State and National Events.
18. Responsible for active **SWAYAM- NPTEL Local chapter at BKIT, Bhalki** as SPOC coordinator
19. Responsible for Conducting **18 offline state level/ National level STTP/FDP/Workshops** for Quality enhancement of teaching and Learning Processes and Bridging gap between Industry and Academia.
20. Mentored 12-week NPTEL course **ENGINEERING DRAWING AND COMPUTER GRAPHICS** during Jan-Dec 2020. Out of 17 mentees, **1 Gold medal, 1 Silver medal and 4 Elite medals.**
21. Mentored 12-week NPTEL course **PROGRAMMING, DATA STRUCTURES AND ALGORITHM-using PYTHON** during Jan-Dec 2020. **Out of 22 mentees one student achieved silver medal.**
22. Submitted VGST Research fund proposal under VGST Scheme: **K*FIST L1 SEAMLESS INTEGRATION OF CAD, CAM THROUGH COMPUTER AIDED PROCESS PLANNING**, on 21st Feb 2021.
23. Successfully reviewed **five research papers in International Conference on “Progressive Research in Industrial & Mechanical Engineering” (PRIME - 2021)** National Institute of Technology Patna.

List of Papers Published in International/National Journals/conference:

1. A Paper on **“Robot Design and development for Agriculture Processing”** presented at **“Recent Trends in CAD/CAM” National Conference** at GNDCE, Bidar from 29th to 30th July 2004.
2. A paper on **“ROBOTICS- The Face of Future”** Presented at National Conference on **“RECENT TRENDS IN INFORMATION TECHNOLOGY PROSPECTS FOR GLOBAL INDIA BRAND”** held at IEI, Hyderabad, organized by ROYAL INSTITUTE OF TECHNOLOGY, CHEVELLA from 3rd & 4th Feb 2006.
3. A Paper on presented on **“The Study of Geometric Parameters and Induced Stresses in Spur Gear Tooth Using FINITE ELEMENT METHOD”** at National Conference

on Emerging Trends in Mechanical Engg. held at BMS College of Engg. Bangalore from 28th & 29th Aug 2008.

4. A Paper presented on “**Bending Stress Analysis of Asymmetric Spur Gear Tooth by 3D Finite Element Analysis** “at National Conference on Mechanical Engineering Trends (COMET – 2010) on 19th and 20th of Feb 2010 held at BITM, Bellary.
5. A Paper presented on “**Application of Virtual Prototyping in Farm Mechanization**” at International Conference on Mechanical Engineering Trends (COMET – 2012) on 19th and 20th of Feb 2012 held at BITM, Pune.
6. A Paper submitted on “**Multibody dynamics of Weeder cum fertilizer feeder** “to Karnataka State Agriculture Engineers Conference” held at College of Agriculture Engineering from 15 to 16 Feb 2014.
7. A paper published on “**Simulation and Analysis of Low cost Weeder**” in IJRET: International Journal of Research in Engineering and Technology eISSN: 2319-1163 |pISSN: 2321-7308: Volume 3
8. A Paper presented on “**Design and Development of Three row Weeder**” in National conference on “Recent Innovations in Engineering and Technology-14” held at BKIT, Bhalki during 3rd and 4th May 2014.
9. A paper published on “**Multibody Dynamic Analysis of Mechanism for Health Exerciser Vibrator**” in IJRET: International Journal of Research in Engineering and Technology eISSN: 2319-1163 |pISSN: 2321-7308: Volume 3
10. A Paper presented on “**Simulation and Analysis of Mechanism for Health Swing Massager**” in National conference on “Recent Innovations in Engineering and Technology-14” held at BKIT, Bhalki during 3rd and 4th May 2014.
11. A Paper presented on “**Simulation Based design of low cost automation Intercultivator Equipment**” presented and published in National Conference on Emerging Trends in Mechanical & Materials Engineering held at BKEC, Basvakalyan during 30th to 31st October 2014

12. A Paper titled “**Virtual Design, Analysis of single row Weeder**” published in International Journal of Emerging Technologies Research Trends, vol. 6 May 2015.pp 125-129.
13. A Paper submitted on “**Simulation, Design and Analysis of Solar Powered Horticulture Intercultivator Equipment**” to International Conference and Exhibition on Fatigue, Durability and Fracture Mechanics, 28-30th May 2015.
14. A Paper published on “**Virtual Prototype Modelling and Analysis of Low cost Hand operated Maize Desheller**” published in National journal –Indian Journal of Scientific Research, Vol 11(1) pp 127-132, 2015.ISSN: 0976-2876 (Print) ISSN: 2250-0138 (Online)
15. A Paper published on “**Virtual Simulation based Design of Low Cost Modified Three row Weeder Equipment**”, published in International Journal on Emerging Technologies (IJET)” Vol 7 Nov 2015
16. Paper titled “**Design, Analysis and Development of Low cost Modified Pedal Powered Maize Desheller**” Indian Journal of Scientific Research. vol 12(1): pp 436-442, 2015 ISSN: 0976-2876 (Print) ISSN: 2250-0138 (Online)
17. A Paper presented on “**A Review paper on Virtual Simulation Design and Analysis for Sustainable Farm Machinery**” selected and to be published in National Conference on Recent Innovations in Engineering and Technology 6-7th Nov 2015 to be held at BKIT, Bhalki, India.
18. A Paper published on “**A Review on Virtual Simulation, Analysis and Design of Sustainable Intercultivator**” at Karnataka State Agricultural Engineers conference and Alumini Meet 2016from 14th to 15th May 2016 at **University of Agricultural Sciences, GKVK, Bengaluru(KA)**
19. A Poster presented on “**Simulation, Analysis and Design of Low cost farm machinery system** ” at Karnataka State Agricultural Engineers conference and Alumini Meet 2016from 14th to 15th May 2016 at University of Agricultural Sciences, GKVK, Bengaluru(KA)

20. A Paper published on **“Simulation, Design and Analysis of Solar Powered Horticulture Intercultivator Equipment ”**in International Journal on Emerging Technologies (Special Issue on vol 7(2):pp 371-376(2016)
21. A Paper published on **“Virtual Simulation and Multi Body Dynamics Analysis of Coconut Dehusking Machine”**in IJRET: International Journal of Research in Engineering and Technology eISSN: 2319-1163 pISSN: 2321-7308:Volume 5,Issue 21 pp107-112(2016)
22. A Paper published on **“Design Analysis of a Hydrostatic Thrust Pad using CFD Approach**
“International Journal on Emerging Technologies vol 7(2):pp 237-243(2016)
23. A Paper published on **“Computer Aided Design, Multibody dynamic analysis and Development of Low-cost Solar Powered Maize corn Desheller”** in International Journal of Engineering Science & Management Research 2017 pp 167-176.
24. A Paper published on **“Review paper on Simulation, Analysis and Design of Low-cost Farm Machinery using Altair Hyper Works”** in International Journal of Engineering Science & Management Research 2017 pp 158-166
25. A Paper published and presented a title on **“ICTMES-DESIGN-22 Design and Development of Low-cost Seeder cum Fertilizer Feeder”** in International Conference on Trends in Mechanical Engineering Sciences (ICTMES – 2020)
26. A Paper published and presented a title on **ICTMES-DESIGN-23 Simulation, Analysis and Design of Coconut Dehusker cum Desheller through Solid Works** in International Conference on Trends in Mechanical Engineering Sciences (ICTMES – 2020), MCE, Hassan.
27. A Paper published and presented a title on **ICTMES-DESIGN-24 Computer Aided Design and Analysis of Low-Cost Foldable Solar Powered Vehicle** in International Conference on Trends in Mechanical Engineering Sciences (ICTMES – 2020), MCE, Hassan.

28. A Paper entitled "**INFLUENCE OF GRAIN REFINEMENT AND MODIFICATION ON HIGH TEMPERATURE WEAR BEHAVIOR OF A356 ALLOY**" submitted to International Journal **Industrial Lubrication and Tribology**.

ONLINE Mode STTP/FDP/Workshop/Webinars Attended in the Emerging Thrust Areas, AI & ML, Robotics,3D Printing, IIOT, Smart Manufacturing etc.

1. Attended online Quiz on **ROBOTICS AND ARTIFICIAL INTELLIGENCE** during 17-05-2020 conducted by Department of Mechanical Engineering, Samarth Group of Institutions college of Engineering,Belhe.
2. Attended one week National level online Faculty Development Programme on **Moodle Learning Management system** from 06-07-2020 to 10-07 2020 conducted by D.Y.Patil University, Ambi, Pune.
3. Attended one day International webinar on **Innovation in large Organisations by Mr. Santosh Bhoosthali, Alumnus- IIT Bombay**, on 08-06-2020 organized by Department of Mechanical Engineering, Vachana Pithamaha Dr. P.G.Halkatte college of Engineering & Technology, Vijayapura, Karnataka state,India.
4. Attended online test on **Engineering Graphics -Isometric Projection** during 14-05-2020 conducted by Department of Applied Science, PARVATIBAI Genba Moze college of Engineering, Wagholi, Pune.
5. Attended and delivered a talk on **Enhancing skills by top MOOC platform** during **World Youth Skill Day 2020**, on 15-07-2020 organized by IE(I),Kalburgi Local centre, Karnataka state,India.
6. Attended one day International Conference on **Emerging Novel Trends in Science for Human welfare (ICENTSHW-2021)**, and successfully participated in the session of “ **Real Life Application of Mathematics**” on 16-02-2021 organized by

Department of Science, Jnan Vikas Mandal's Degree college, Airoli, Navi Mumbai, India

7. Attended one day National level webinar on **Entrepreneurship and Government Support**, on 16-07-2020 organized by PG Department of Commerce with Computer Application, Rajapalayam Rajus College, Rajapalayam, Tamilnadu.
8. Attended six days National level online Faculty Development Programme on **“Research at Glance: Current Protocols”** from 18-01-2021 to 23-01 2021 conducted by Sinhgad Institutes, Let's Learn and Grow together, Pune.
9. Attended Two day National level workshop on **CAE tools and It's Application for Automotive Development**, on 20th and 21st May 2020 organized by Department of Mechanical Engineering, Dr.Vithalrao Vikhe Patil College of Engineering, Ahmednagar.
10. Attended online Quiz on **Engineering Mechanics** during 21-05-2020 conducted by Department of Civil Engineering, Sinhgad Institute of Technology and Science, Pune.
11. Attended one day National level webinar on **Advances and Future Outlooks in Renewable Energy Engineering**, on 24-02-2021 organized by Department of Renewable Energy under ICAR National Agricultural Higher Education Project(NAHEP), Institutional Development plan, Agriculture Engineering College and Research Institutes, Tamilnadu Agriculture University, Coimbatore.
12. Attended one day National level online Webinar on **“Engineering Challenges in 21st Century: Overview with sample case studies”** from 25-02-2021 conducted by Sinhgad Institutes, Let's Learn and Grow together, Pune.
13. Attended one week National level online **Faculty Development Programme** on **Recent Advancement in AI & Robotics** from 25-04-2021 to 29-04 2021 conducted by Dr. D.Y. Patil School of Engineering & Technology, Pune.
14. Attended one-week National level online **Faculty Development Programme** on **Essential Skills and Technologies for Quality Research** during 25-04-2021 to 29-

04 2021 conducted by Library and Information Center, P.E.S. college of Engineering, Mandya, Karnataka.

15. Attended online Quiz on **Elements of Mechanical Engineering** during 31-05-2020 conducted by Department of Mechanical Engineering, BCE, Shravanabelagola.
16. Attended one day National level online Webinar on “**Artificial Intelligence(AI) and Machine Learning (ML)**” from 06-07-2020 conducted by Krushivardhan Aggrotech and Let’s Learn and Grow together, Pune.
17. Attended online Quiz and successfully completed on “**Auto Tech 2020 -Emerging Trends in Automotive Engineering**” during 06-05-2020 conducted by Department of Mechanical Engineering, P.S.R. Engineering College, Sivakasi, affiliated to Anna University, Chennai.
18. Attended online Quiz and successfully completed on “**Covid-19 Pandemic Awareness Campaign**” on 8-05-2020 conducted by Department of Engineering Sciences , Dr. D.Y. Patil School of Engineering & Technology, Pune.
19. Attended online Quiz and successfully completed and got Appreciation on “**Design Engineering-2020** ” on 12-05-2020 conducted by Department of Mechanical Engineering, Sri Krishna Institute of Technology, Bengaluru.
20. Attended online Quiz and successfully completed and got Appreciation on “**Finite Element Analysis** ” on 12-05-2020 conducted by Department of Mechanical and Civil Engineering, AISSMS College Engineering, Pune.
21. Attended one-week National level online **AICTE sponsored STTP on “Hybrid Electric Vehicles**” during 07-12-2021 to 12-12 2021 conducted by Department of Automobile Engineering, Poojya Dodappa Appa college of Engineering, Kalburgi, Karnataka.
22. Attended one day National level online Webinar on “**Industrial Internet of Things**” during 25-06-2020 conducted by Department of Mechanical Engineering ,Angadi Institute of Technology ,Belagavi.

23. Attended one day International Conference on **Emerging Novel Trends in Science for Human welfare**, and successfully participated in the session of “ **Technological Challenges of the International mega Science Projects and Opportunities for the Indian students**” on 16th February 2021 organized by Department of Science, Jnan Vikas Mandal’s Degree college, Airoli, Navi Mumbai, India
24. Attended one-week National level online **AICTE sponsored 6 days online Induction program** on “**Rapid Prototyping and Artificial Intelligence for Industrial Application**” during 25-03-2021 to 31-03 2021 conducted by Department of Mechanical Engineering, St. Martin’s Engineering College, Secunderabad
25. Attended one day National Webinar on “**Role of Renewable Energy Technologies in conservation of Energy**” during 14th December 2020 organized by the ICAR-AICRP on EAAI, Department of Renewable Energy Engineering, College of Agricultural Engineering, UAS, Raichur, Karnataka on the eve of “ **National Energy conservation Day**”
26. Attended one day National webinar on “**Design and Development of Electrical Vehicles**” organized by Dept. of Mechanical Engineering, P G Moze college of Engineering, Pune on 28th February 2022.

Free ONLINE Mode Courses/Programme/Webinars conducted during COVID-19 Pandemic period:

1. Coordinator for ONLINE-Three days Workshop on “**Finite Element Analysis using ANSYS**”, organised by Department of Mechanical Engineering, BKIT Bhalki in association with Mechanical Division, IE(I) Local Centre Kalburgi, 4th to 6th June 2020, (Venue: BKIT Bhalki, Using Microsoft Team Platform).
2. Coordinator for ONLINE-ONE WEEK FACULTY DEVELOPMENT PROGRAMME on “**Online Learning and Assessment System**”, 18 JUNE – 22

JUNE, 2020, IE(I) Local Centre Kalburgi, (Venue: Coordinator Residence Office & BKIT Bhalki, Using Microsoft Team Platform).

3. Coordinator for Webinar on” **How to prepare and face Examinations during COVID-19**”, Sarvajanika Hita Rakshana Vedike® Kalburgi, IE(I) Local Centre Kalburgi, (Venue: Coordinator Residence Office & BKIT Bhalki, Using Microsoft Team Platform).
4. Resource person for Three days STTP on **“Smart Manufacturing”** 3rd to 5th July 2020, Session Topic: **“3D Printing Technologies and Implementation for Smart manufacturing”** organized by Department of Science and Technology, Government of Bihar in collaboration with Govt. Engineering Colleges of ,Jamui, Munger and Lakhisarai, Bihar.
5. Three days ONLINE-FDP on **“Cloud based Learning & Evaluation”** 7th July-9th July 2020, organized by Gobi College of Arts & Science college Gobi Chettipalyam, Chennai, **Tamil Nadu**.
6. Resource person for Three days FDP on **“Cloud based Learning & Evaluation”** 7th July-9th July 2020, Session Topic: **“ONLINE EDUCATION-Indispensable for 2K21”** organized by Gobi College of Arts & Science college Gobi Chettipalyam, Chennai, Tamilnadu.
7. Coordinator for ONLINE-Webinar on **“World Youth Skills Day-2020”**, **Theme: “Skills for Resilient Youths”** organized by IE(I) Local Centre Kalburgi, (Venue: Coordinator Residence Office , Using GO TO Meeting Platform).
8. Coordinator for Webinar on **“Technology Based Learning-Its prominence”**,
 - a. -Digital Education-Need and Uses,
 - b. -Digital learning for skill enhancement
 - c. -Parents Role in Digital Education
 - d. -How to Adopt to Digital Education

Interaction of Students, Parents with Experts, jointly organized by Sarvajanika Hita Rakshana Vedike® Kalburgi, IE(I) Local, Centre Kalburgi & BKIT Bhalki Our Proud Alumni Special Dy. Commissioner, M.K Jagadeesh was Chief Guest.(Venue: Coordinator Residence Office , Using Microsoft Team Platform).

9. Coordinator for Webinar on **”Technology Enabled Learnig during COVID-19”**, for SSLC/PUC students, Jointly Organised by Sarvajanika Hitarakshana Vedike Kalburgi, &IE(I) Local Centre Kalburgi, (Venue: Coordinator Residence Office & BKIT Bhalki, Using Microsoft Team Platform).
10. **Resource person** for Webinar on **“Employabilty through Upskilling”** jointly organized by IE(I) Local, Centre Kalburgi , Incubation centre, Mech. Dept., KCT College of Engineering Kalburgi and District skill Development and Koushalya Karnataka Dept., Kalburgi, (Venue: Coordinator Residence Office , Using Microsoft Team Platform).
11. **Coordinator** for Webinar on **“CELEBRATION OF WORLD BIOFUELS DAY-2020”** jointly organized **GREEN CLUB Kalburgi**, and BKIT Bhalki in association with **Central university of Kalburgi, 10-08-2020. (Go To Meeting Platform)**
12. **Coordinator for one week FDP on “Green Energy for Sustainable Future-an Indian Centric Approach”** jointly organized **GREEN CLUB Kalburgi**, and BKIT Bhalki in association with **Central university of Kalburgi, 10-08-2020. (Go To Meeting Platform)**
13. **Coordinator** for Webinar on **“CELEBRATION OF WORLD HEALTH DAY-2021”** organized **Karnataka Jnana Vijnana Samithi (KJVS) Kalburgi, 07-04-2021. At 6:00pm (Go To Meeting Platform)**
14. Attended a Webinar on **“PSCHOLOGICAL METHODS OF STUDIES”** FOR THE SSLC STUDENTS OF CHITTAPUR TALUKA, organized by **Karnataka Jnana Vijnana Samithi (KJVS) Kalburgi**, in association with **BEO Office Chittapur and High School Teachers Association, Chittapur, 24-04-2021. At 6:00pm (Google Meet Platform)**
15. **Coordinator** for 2 days Workshop/Webinar on **“SCIENTIFIC PRANAYAMA & ITS EFFECTS DURING COVID-19**, organized **Karnataka Jnana Vijnana Samithi (KJVS) Kalburgi**, in association with **Green Health Club, Kalyana Karnataka, 12-05-2021 to 13-05-2021 At 6:00pm (Google Meet Platform)**
16. **Coordinator** for Webinar on **“CELEBRATION OF ENVIRONMENT DAY-2021”** THEME: **“RESTORATION OF ECOSYSTEM”** organized **Karnataka Jnana Vijnana Samithi (KJVS) Kalburgi**, in association with **Green Club,**

Kalburgi & Dist. Science Centre Kalburgi, 05-06-2021. At 6:00pm (Google Meet Platform)

17. Coordinator for Webinar on “**ವಿಷಯ: ಆರೋಗ್ಯಕರ ಜೀವನಶೈಲಿ ಗೆ ಜೀವನ ಕೌಶಲ್ಯಗಳು**” organized Karnataka Jnana Vijnana Samithi (KJVS) Kalburgi, in association with **Green Club, Kalburgi & Youth Empowerment & Sports Dept, Govt. of Karnataka, 29-07-2021. At 3:30pm to 4:30pm (Google Meet Platform)**

18. **Attended one Day Workshop on “Rain Water Harvesting Techniques”** on 28-10-2021, jointly organized Institution of Engineers (India) Local Centre Kalburgi in association with Karnataka State council for Science & Technology (KSCST).Regional Centre Kalburgi & KSCST Bengaluru.

19. Coordinator for **ONE MONTH FREE ONLINE TRAINING on “Advance Design with Catia”** for Diploma/BE/M.Tech. Students, jointly organized Institution of Engineers (India) Local Centre Kalburgi in association with Training & Placement Dept. Government Polytechnic, Kalgi

20. As a Resource persons for 5 days STTP titled “**Trending Trends in Materials, Manufacturing & Design**” organized by Bengal College Of Engineering & Technology , DURGAPUR, West Bengal in association with Karnataka Jnana Vijnana Samithi Karnataka (KJVS) and IE(I) Local Centre Kalburgi.(04-01-22 to 8-01-22).

21. As a keynote speaker delivered a talk on **Recent Advance Technologies in Solar Energy** during 2 days National workshop “**Emerging Trends in Solar Energy**” organized by Dept. of Mechanical Engineering, P G Moze college of Engineering, Pune on 4th April 2022.

AWARDS AND RECOGNITION

1. Received **Best Teacher Award** from Cauvery Education Society, Gonikoppal, S. Coorg during 1999.
2. Received the **Award of Excellence** service from **Kannada Sahithya Parishathu, Bhalki** during 2010.
3. Received **Best teaching Performer** in various Key Subjects like CAED,MOM, DOME-I FEM, at BKIT, Bhalki 2001-2021

4. Received Best **ISTE chapter award** as a ISTE secretary of BKIT, Bhalki 2018
5. Received the **Award of Excellence** service from **IEI, Kalburgi** Chapter.2020
6. Received the **Award of Excellence** service from **Hiremath Sansthan**, Bhalki during 2021
7. Received **Top Performer Mentor** for SWAYAM-NPTEL Mentor during 2021
8. Received **Active SPOC certificate** for SWAYAM-NPTEL Local chapter since 2018
9. Received **Active SPOC certificate** for SWAYAM-NPTEL Local chapter since 2019
10. Received **Active SPOC certificate** for SWAYAM-NPTEL Local chapter since 2020.
11. Received **Active SPOC certificate** for SWAYAM-NPTEL Local chapter since 2021

NPTEL IIT COURSES CERTIFIED AND MENTORED

1. Engineering drawing and Computer graphics
2. **Sustainability through Green Manufacturing Systems: An Applied Approach**
3. Strength of materials
4. **Basics Of Finite Element Analysis – I**
5. Robotics
6. **Computer Integrated Manufacturing**
7. Programming, Data Structures and Algorithms Using Python
8. **Problem solving through Programming In C**
9. Introduction to Artificial Intelligence
10. **Aircraft Design**
11. Automotive Systems
12. **CNC Programming**

COMPUTATIONAL SKILLS

1. Programming: C, C++, Python, Oracle SQL,
2. Graphics : Corel Draw, Adobe
3. CAD : Solid Edge19, Solid Works, CATIA,
4. CAE : ANSYS 15,Hyperworks, ADAMS,NASTRON
5. CAM : Mastercam X5, EMCO CNC Simulation, 3D Printing,
6. Robotics : Agriculture Robot using Arduino and Pick and Place Robot,

Domain of Interest:

1. CAD/CAM
2. Mechatronics

3. Finite Element Analysis
4. Mechanism Design Using Multibody Dynamics
5. Computational Fluid Dynamics
6. Low cost Automation Farm Machinery System
7. Virtual Prototyping/Collaborative Design
8. Industrial Robotics
9. Tribology
10. Mechanics of Composites

PhD Level (Course Work):

- 1) Industrial Design & Economics
- 2) Finite Element Method
- 3) Theory of Elasticity and Plasticity
- 4) CAD/CAM

Under Graduate (B. E) Level :

1. Elements of Mechanical Engineering
2. Computer Aided Engineering Drawing
3. Mechanics of Material
4. Material Science and Metallurgy
5. Design of Machine Elements
6. Dynamics of Machines
7. Automation Manufacturing System
8. Computer Integrated Manufacturing
9. Mechatronics
10. Mechanical Vibrations
11. Operations Research
12. Theory of Elasticity
13. Theory of Plasticity
14. Tribology
15. Product Life Cycle Management
16. Finite Element Analysis

Laboratories Dealt at UG level:

1. Modelling and Analysis (FEA) Lab
2. CIM and Automation Lab
3. Computer Aided Engineering Drawing Lab
4. Material Testing Lab
5. Design Lab
6. Basic Workshop Practice.
7. Computers Concepts & C Programming Lab
8. Software Applications Lab

MEMBERSHIP OF PROFESSIONAL BODIES :

1. Life Member, Indian Society for Technical Education (**ISTE**)
2. Life Member, Institute of Engineers, India (**IEI**)
3. Professional Member of Auto India Racing Championship (**AIRC**)
4. Member for Karnataka Jnana Vijnana Samithi (**KJVS**)

Conference / Workshop/ Seminar

1. Attended one day **workshop** on Model Paper discussion on “Automation in Manufacturing system” held at GCE Ramanagara (17TH April 2002)
2. Five day **workshop** on CAD/CAM/Robotics (30th Oct to 03 Nov 2003) held at GCE, Ramanagara, Bangalore.
3. “Recent Trends in CAD/CAM” National Conference at GNDCE, Bidar from 29th to 30th July 2004.
4. Attended one day seminar on “**Supply Chain Management**” in REC, Bhalki on 13th April 2006.
5. Attended one day seminar on “**Micro Electromechanical System (MEMS)**” REC, Bhalki on 20th April 2006
6. Attended one day seminar of “**Recent Development in Structural Engineering**” at Civil Engineering department, REC, Bhalki on 10th Nov 2006.
7. Attended 5 days state level **workshop** on “Introduction to Finite Element Analysis (FEA) and practice on FEMAP with NX MASTRON package , held at VTU , Belgaum in association with UGS from 29th Jan to 2nd Feb 2007

8. Participated in 3 days **International** conference and Expo on “ **Engineering Design in 2007**” held from 9th to 11th August 2007 at NSSC Complex **Indian Institute of Science, Bangalore.**
9. Attended a Two day seminar on “**Rapid Prototyping and Technology**” in REC, Bhalki on 15th & 16th Nov 2007.
10. Attended one day seminar on “**Supply Chain Management**” in REC, Bhalki on 13th April 2006.
11. Attended one day seminar on “**Recent Trends in Automobile Industries**” by D.J. Biradar Manager, Quality Engg. Of **Ashok Leyland, Hosur (TN)** in REC, Bhalki on 10th Sept 2009.
12. Attended one day seminar on “**Role of Ergonomics in Product Design & Development**”
By Rajit Singh Sohail of **Uttejana Technologies** in REC, Bhalki on 25th Feb 2010.
13. Attended one day Technical Talk on “**Finite Element Techniques And its Industrial Applications**” by Sachidanand Das Scientist, Defense sector Hyderabad in BKIT, Bhalki on 2nd March 2013.
14. Attended two day “**Karnataka State Agriculture Engineers Conference**” held at College of Agriculture Engineering from 15 to 16 Feb 2014.
15. Attended Two-day **National conference on “Recent Innovations in Engineering and Technology-14**” held at BKIT, Bhalki during 3rd and 4th may 2014.
16. Attended Two-day **National conference on “Recent Innovations in Engineering and Technology-15**” held at BKIT, Bhalki during 7th Nov to 8th Nov 2015
17. Attended two day “**Karnataka State Agricultural Engineers conference and Alumni Meet 2016**” held from 14th to 15th May 2016 at University of Agricultural Sciences, GKVK, Bengaluru(KA)
18. Organized Two-day First **International Conference on Recent Innovations in Engg. and Technology-2015 (ICRIET-2016)** to be held at Bheemanna Khandre Institute of Technology (BKIT), Bhalki on 11th, 12th & 13th Nov 2016. ICRIET-2016 is organized by E&CE and Mechanical Departments

Administration

1. Worked as VIII sem VTU Seminar co-ordinator.

2. Worked as VI sem VTU Mini Project co-ordinator.
3. Worked as Squad member VTU Exams
4. Worked as Squad Chairman VTU Exams
5. Worked as Deputy Chief External VTU Exams
6. Worked as Moderator, Paper setter for VTU Examinations.
7. Working as secretary for **E-TIME club** of the Mechanical Dept. since 5-05-2009
8. Working as SPOC, Local Chapter NPTEL, **BKIT, Bhalki** since 12th December 2016
9. Working as **Secretary cum Treasurer** of **ISTE CHAPTER, BKIT, and Bhalki** since January 2017.
10. Working as founder Secretary of **Green club**, BKIT, Bhalki
11. Organized two-day ISTE Sponsored **National level workshop** on “**Finite Element Analysis**” from 7th -9th March 2010 at REC, Bhalki
12. Organized three-day **National level workshop** on “**Recent Advances on Modeling and Analysis**” from 4th -6th April 2011 at REC, Bhalki
10. Organized two-day **National level workshop** on “**B-ROBOTICS**” from 30th September to 1st October 2011 at REC, Bhalki
11. Working as secretary of “**WALL MAGAZINE**” for E-TIME club from 05/03/2011
12. Organized one day special talk on “**Challenges and job opportunities in Merchant Navy**” By Mr. Krishendra Pratap Singh in March 2012.
13. Organized three day National level **workshop** on “**Advances in Mechanism Design**” from 7th -9th April 2013 at BKIT, Bhalki
14. Organized One Week **National level workshop** on “**Computational Fluid Dynamics & Multibody Dynamics Simulation and Analysis**” “held from march 19th to 23rd, 2014”
At BKIT, Bhalki
15. Organized One Week **Summer School** on “**Recent Practices in Computer Aided Engineering and Automation**” “held from 11th to 15th April 2014” at BKIT, Bhalki
16. Worked as **Co-chair for National conference NCRET-14** organized by BKIT, Bhalki on 4th May 2014.
17. Organized two Week Short Term Training Program (STTP) on “**Computer Aided Analysis using Altair Hyper mesh and MSC – NASTRAN**” from 5th Jan 16th Jan 2016 at BKIT, Bhalki
17. Organized One Week **FDP** on “**Practical Approaches In Computer Aided Design and Finite Element Analysis**” from 30th Mar to 3rd April 2016 at BKIT, Bhalki

18. Worked as Co-ordinator for one **Week National level Workshop on “Recent Innovations in Advanced Materials and Nano Materials”** 11th to 15th August 2016 at BKIT, Bhalki

19. Worked as Co-chair for First **International Conference on Recent Innovations in Engineering and Technology-2015 (ICRIET-2016)** to be held at Bheemanna Khandre Institute of Technology (BKIT), Bhalki on 11th, 12th & 13th Nov 2016. ICRIET-2016 is organized by E&CE, Mechanical Departments.

20. Conducted national online Quiz on Elements of Mechanical Engineering for 1280 members

Projects Guided:

56 UG projects

08 PG projects

Selected 3 projects for funding state level exhibition under **KSCST, Bengaluru**

Selected 2 Projects for state level **Anveshana** exhibition, **Bengaluru**

Selected 3 Projects for state level **VTU** exhibition, **Belagavi**

Selected for **2 Live Projects**, Mepstra Engineering & Consultancy Pvt. Limited, **Hyderabad,**

Extracurricular activities:

1. Working as **secretary** of **REC Kannada Sangha** from 12th June 2004.
2. Organized 3-Day Literature and Cultural fest-**JANANI-09**
3. Organized 2-Day **Zonal level Literature and Cultural fest-JANANI-10**
4. Worked as **Culture and Quiz committee member** for founder president Dr. Chennabasava Pattadevaru Birth anniversary 2011
5. Worked as **Culture and Quiz committee member** for founder president Dr. Chennabasava Pattadevaru Birth anniversary 2012
6. Worked as **Culture and Quiz committee member** for founder president Dr. Chennabasava Pattadevaru Birth anniversary 2013.
7. Worked as **Stage committee member for Felicitation to Dr. Bheemanna Khandre** founder president SVES, Bhalki 2012
8. Worked as Co-ordinator for “**Mech Mantra-Wall Magazine** “since may 2012
9. Worked as **cultural co-ordinator** for Fresher party of Mechanical Engg. September 2013.
10. Worked as **cultural co-ordinator** for National Workshop of Mechanical Engg. March 2014.

11. Worked as **co-ordinator** for National conference of Mechanical Engineering department NCRET held during May 2014.
12. Worked as **cultural co-ordinator** for Fare Well function of Mechanical Engg. March 2014.
13. Worked as **co-ordinator** for National conference of Mechanical Engineering department NCRET held during May 2015.
14. Worked as **coordinator** for First International Conference on Recent Innovations in Engineering and Technology-2015 (ICRIET-2016) to be held at Bheemanna Khandre Institute of Technology (BKIT), Bhalki.
15. Worked as **Secretary** for organizing 3-day Techno cultural fest Megabyte 2017

STRENGTHS

1. Hardworking and always adaptable to any team.
2. Excellent academic records and experience in teaching filed
3. Ability to prepare syllabus, deliver lecture, and hold group conversation on related topic with students
4. Skilled in teaching students with practical illustrations
5. Good Communication Skills.
6. Ability to manage a Team effectively & efficiently.
7. Self-motivated & willing to perform under any circumstances.
8. Good listener

Personal Details:

Name	:	Dr. Rajashekar M
Father's Name	:	Late Sri. Chandrayya Matpathi
Mother's Name	:	Smt. Basamma
Spouse's Name	:	Smt. Chandrakala
Date of Birth	:	1st June 1971
Nationality	:	Indian
Religion	:	Hindu
Residential address	:	Dr. Rajashekar Matpathi H.No.4-1-710/8, Ganesh Nagar, Lecturer Colony Bhalki- 585328, Bidar, Karnataka, INDIA
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