

YANTHRIKA

*A Newsletter
of*

**THE DEPARTMENT OF
MECHANICAL ENGINEERING**

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**SHRI MADHWA VADIRAJA INSTITUTE
OF TECHNOLOGY AND MANAGEMENT**

(A Unit of Shri Sode Vadiraja Mutt Education Trust®, Udupi)

Accredited by NAAC with 'A' grade

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SMVITM

A BRIEF OVERVIEW OF THE DEPARTMENT

The Department of Mechanical Engineering started in the year 2010 with an intake of 60 students, was increased to 120 in the academic year 2011-12. The department offers an undergraduate program in Mechanical Engineering; also, the department has been recognized as a Research Centre by VTU to offer PhD Degree. Mechanical Engineering is the discipline that applies the principles of engineering physics and material science for the design, analysis, manufacturing and maintenance of mechanical systems. It is the branch of engineering that pertains to the design, production and operation of machinery.

Academic activities in the department are designed with student-centric learning approach in such a way that intellectual curiosity and creativity of students is simulated and spirit of innovation is instilled in them. The department provides state of art infrastructure and well-equipped laboratories in various disciplines of mechanical engineering. The department has well qualified, competent and committed team of faculty members who have their specializations in different areas of mechanical engineering.

The dedicated and experienced faculty guide the students with the projects and industry assignments. Some of the projects are funded by Government agencies like VGST, KSCST and have been selected for exhibitions. The effort of faculty, well experienced supporting staff, enabling learning environment and availability of modern facilities are reflected in the excellent performance of the students.

The department has established a R & D center for "Technical Up gradation of Cashew Processing Equipment" in association with Karnataka Council for Technology Upgradation Bengaluru. The R & D Centre provides a platform to the students to take up real time projects and interact with industries. The department also has a "Creativity Centre" in order to trigger the innovation and enhance the creative skills of the students. The department is always engaged in motivating students to take up challenging research and development activities for the welfare of society.

Vision

To become a center of excellence in Mechanical Engineering and contribute to technological and socio-economic developments.

Mission

- To develop state of the art facilities related to Mechanical Engineering.
- To build a team of qualified and motivated faculty members.
- To impart quality engineering education with ethics to students.
- To promote collaboration with industries/institutes for academic, research and consultancy catering to societal needs.

Program Educational Objectives

The graduates of Mechanical Engineering Program should have:

- The fundamental knowledge of Science and Engineering to work in diverse fields of mechanical engineering domain.
- The technical and analytical skills to design and develop mechanical engineering components and systems.
- The professional competency to function effectively in multi-disciplinary environment.
- The ethical values and inculcate integrity for social and environmental developments.

ACTIVITIES CONDUCTED

3 DAYS TRAINING PROGRAM HYDRAULICS & PNEUMATICS

In association with ISTE Student chapter, 3 Days of Training Program on Hydraulics & Pneumatics at VTU Bosch Rexroth Centre of Competence in Automation Technology, Mysore was organized from 24 to 26 September 2019. 42 Students of final year Mechanical Engineering department have participated in this program along with two faculty members. Dr. N S Sriram, Professor, Mechanical Engineering department, VVIET, Mysore and Dr. K R Prakash, Professor, Mechanical Engineering department, NIE, Mysore were the resource persons. The training program includes introduction to hydraulics, hydraulic pumps, motors, cylinders, control valves, circuit designing and building, study of proportional valves, hydraulic fluids and filtration, and also, hands on session on construction and operation of hydraulic assemblies on the training rig. The training program also includes introduction to Pneumatics, Fundamentals of Pneumatics, Basic components - Cylinders and Valves, their working and interactions, electro pneumatic circuit diagram, and also, hands on session on building pneumatic circuits on the training rig.

Mr. Ganesh Kalagi and Mr. Manjunath S, Senior Assistant Professors of Mechanical Engineering department have coordinated this training program.



INDUSTRIAL VISIT TO GOVERNMENT TOOL ROOM AND TRAINING CENTRE (GTTC), MYSORE

Department has organized Industrial Visit to Government Tool Room and Training Centre (GTTC), Belagola Industrial Area, K.R.S Road, Mysore on 27 September, 2019.

42 Students of final year Mechanical Engineering department have visited the industry along with two faculty members. H.M. Radhakrishna, the in-charge of students around the plant and explained the operations and the mode of work in their Centre. GTTC is an autonomous society, and a recognized Scientific and Research Organization by the Government of India. GTTC is serving industry by way of precision tooling and providing in well trained craftsmen the area of tool and die making. The students have given exposure to various machine tools, tool design, advanced robots for the applications of various types of welding in industrial use, and advanced tools using in quality checking. Mr. Manjunath S and Mr. Ganesh Kalagi, Senior Assistant Professors of Mechanical Engineering department have coordinated the visit.



ALUMNI TALK BY JAVINS AVIN DSOUZA

On 30 September 2019 an alumnus talk was organized in association with department of Mechanical Engineering Alumni cell and Placement cell. The final year students got the opportunity to have an interaction with one of our proud Alumnus Mr. Javins Avin Dsouza, of 2015-19 batch, who is working as a System Engineer Trainee in Infosys, Mysuru. During the 40 minutes interaction, the existing students were full of zeal to interact with their senior, Javins. Mr. Javins mainly focused on the selection processes involved in Infosys. Speaker shared about the different rounds of selection and guided the students how best one could prepare for the same. Topics from which questions would appear in the aptitude test was told clearly and asked the students to focus on those topics so as to clear the first round. Being from Mechanical Engineering

stream, exposure that IT field provides was also mentioned by the speaker and encouraged the students to apply for IT jobs and excel in the same. Speaker shared his own experience that he had faced during his job interviews and gave insights on how one should appear before the interview panelists by stressing on conduct, dress code, body language, self-confidence etc., and thereby stating its importance in fetching a job. Also, the students are made to speak during the session as a part of demo on HR interviews. Together with how to crack interviews for Infosys, Mr. Javins also provided tips to clear Indian Army and Air force exams.

The session was interactive and fruitful. He welcomed the queries of the students and answered them. The interaction session was graced by Dr. Sudarshan Rao K, HOD, Department of ME. We all appreciate Javin's efforts in finding time to share his experiences with budding engineers of SMVITM. Mr. Karthik V, Assistant Professor and Alumni coordinator, Department of Mechanical Engineering welcomed the gathering and introduced the speaker to the audience. Dr. Sudarshan Rao K, HOD, Department of ME, thanked and presented a memento to the Guest speaker. The program was coordinated by Mr. Kiran Bhat, Assistant Professor and placement coordinator, Department of ME and Mr. Narayan Nayak, Assistant professor and Alumni Coordinator, Department of ME.



TRAINING PROGRAM ON MATERIAL TESTING AND QUALITY CONTROL LAB

The Department of Mechanical Engineering has successfully organized two-days training program on "Material Testing and Quality Control" in association with ISTE student chapter. The session of the

training Program was organized from 13 to 14th September 2019. 52 students pursuing 2nd year Mechanical Engineering diploma course from Government Polytechnic, Udupi have participated in the training programs. The students were found enthusiastic throughout the sessions while learning various experiments. The department teaching staff Mr. Kiran Bhat gave brief introduction about the training program. The instructors of the department guided the students to conduct various experiments in the lab. Prof. Dr. Thirumaleshwar Bhat, Principal of the institute and Prof. Dr. Sudharshan Rao, Head of the Mechanical Engineering department congratulated the students. The program was coordinated by Mr. Narayan Nayak and Mr. Vijendra Bhat.



WORKSHOP ON "RECENT DEVELOPMENTS IN SMART MATERIALS & MEMS"

The department of Mechanical Engineering in association with ISTE Student Chapter has organized One-Day Workshop on "Recent Developments in Smart Materials & MEMS" on 20-September 2019 for the benefit of faculty and students of Mechanical Engineering. Dr. Gangadharan K V, Professor, Department of Mechanical Engineering, NITK, Surathkal and Dr. Udaya Prasanna, Professor, Department of Mechanical Engineering, SMVITM, Bantakal was the resource persons of the workshop. Prof. Gangadharan in his presentation, during the morning session thrown light on recent developments in Smart Materials and its applications. The topics covered include, Introduction to Magnetorheological (MR) fluids, fabrication techniques, testing of MR fluids and demonstration on testing of MR fluid with and

without magnetic field. The presentation also includes Introduction to Piezoelectric materials and demonstration on performance testing of piezoelectric materials. In the afternoon, hands on session conducted on various experiments of mechanical testing using virtual lab technology. Research scholars from NITK, Mr. Nishan, Mr. Tejas, and Mr. Dinesh have also associated with resource person Professor, Dr. Gangadharan K V. Around 87 Students of Mechanical Engineering have attended the workshop.

Dr. H Udaya Prasanna in his presentation, during afternoon session explained about Shape memory alloys and its various applications. The presentation also includes Introduction to Microelectromechanical systems (MEMS), fabrication technologies and its various applications. HOD of Mechanical Engineering Dr. Sudarshan Rao K welcomed the resource person. Mr. Ganesh Kalagi, Mr. Manjunath S and Mr. Ravinarayan Rao were coordinated the workshop.



WORKSHOP ON "FIRE SAFETY"

The department of Mechanical Engineering has organized Workshop on "Fire Safety" on Monday, 21 October, 2019 for the benefit of final year Mechanical Engineering and Civil Engineering students. Mr. Guru Prasad and Mr. K s Babu, trainers of Alpha Technical Training & Development Center, Mangalore were the resource persons of the workshop. The workshop includes general understanding of basic fire awareness including what should be done in the event of a fire, how to prevent a fire occurring and a basic introduction of the protocol of extinguishing a fire. The workshop also includes different types of extinguishers such as Water, Foam, Dry Powder, CO2

and Wet Chemical and their uses. Also they briefed about the training programs and certification courses conducted at Alpha Technical Training & Development Center for the mechanical and civil engineers. Mr. Guru Prasad demonstrated the fire extinguishing procedure for the fire caused by different sources like wood, petrol and kerosene. Around 50 Students of Mechanical Engineering and Civil Engineering have attended the workshop. HOD of Mechanical Engineering Dr. Sudarshan Rao K welcomed the resource persons. Mr. Ganesh Kalagi was coordinated the workshop.



TECHNICAL TALK ON "HOW TO WRITE TECHNICAL PAPER"

The department of Mechanical Engineering in association with ISTE Student chapter has organized Technical talk on "How to Write Technical Paper" on Wednesday, 30 October, 2019 for the benefit of final year Mechanical Engineering students. Dr. Sudarshan Rao K, Professor and Head of the Department, Mechanical Engineering, SMVITM, Bantakal was the resource persons of the talk. The talk includes how to find the suitable journal papers for the projects, technical paper and its different types, journal ranking methods, popular journal indexing agencies, details about structure of paper, checklist for submitting paper and publication ethics. Around 60 Students of Mechanical Engineering have attended the talk. Mr. Ganesh Kalagi and Mr. Manjunath S, Sr. Assistant professors, Mechanical Engineering Department have coordinated this talk.



TWO-DAY WORKSHOP ON “CNC PROGRAMMING & HANDS-ON SESSIONS ON CNC MACHINES”

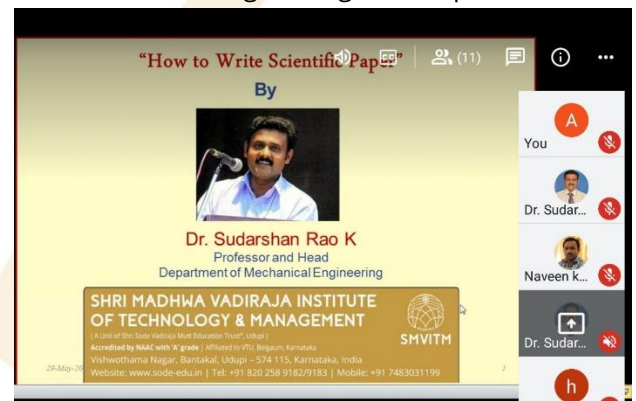
ISTE Student Chapter in association with Department of Mechanical Engineering Department organized 2days workshop on ‘CNC PROGRAMMING & HANDSON SESSIONS ON CNC MACHINES’ for 3RD Year students of Government Polytechnic, Udupi on 10th and 11th March 2020. Department teaching and non-teaching staffs were the resource persons in workshop and taught students the basics of CNC program writing and also given hands-on demonstration on CNC MACHINING CENTERS (VMC and CNC Lathe) as per the schedule. Students were found enthusiastic throughout the sessions in learning various concepts and operating high end VMC and CNC lathe. Dr. Sudarshan Rao K, HOD, Mechanical Engineering addressed the students at the end of the workshop and gave away the certificates. The students were allowed to take the machined parts at the end of the workshop. 32 Students were benefited by the workshop.



WEBINAR ON “HOW TO WRITE SCIENTIFIC PAPER”

For the benefit of faculty members and students of professional colleges, the department of Mechanical Engineering had organized a webinar on “How to write scientific paper” on Friday, 29 May 2020. Dr.

Sudarshan Rao K, Professor and Head, Department of Mechanical Engineering, SMVITM, Bantakal, was the resource person. In the session, Dr. Sudarshan Rao K, emphasized on what a scientific paper is, purpose of writing a paper, where a paper to be published and how a paper to be written. He discussed the selection of journals based on the journal ranking like impact factor, SJR ranking and Quartile. He mentioned the structure of a paper and explained in detail the various sections like Title, Abstract, Introduction, Methods, Results, Discussions and conclusion. He also talked about the importance of publication ethics like plagiarism, research fraud, slicing and simultaneous submission. Finally, session concluded by the discussions on the checklists before submitting the paper to a journal. Total of 186 participants from 34 engineering and other professional institutions have participated in the webinar. All the participants were very enthusiastic and interacted with the resource person. Webinar was conducted using a Google meet platform.



FACULTY RESEARCH PUBLICATIONS

- Dr. Sudarshan Rao K, Professor and Head, Department of Mechanical Engineering has published a paper titled “Retractable stabilizer wheel supported bicycle”, in International Journal of Mechanical and Production Engineering Research and Development Volume-10, Issue-3, June 2020, pp 6183-6188
- Dr. Gajanan Anne, Associate Professor & Mr. Aditya Kudva, Assistant Professor (Sr.), Department of Mechanical Engineering have

published a paper titled ,”Optimization of ball-burnishing process parameters on surface roughness, micro hardness of Mg-Zn-Ca alloy and investigation of corrosion behavior” in Materials Research Express, DOI: 10.1088/ ISSN: 2053-1591, Volume 6, Issue 10, September 2019.

- Dr. Gajanan Anne, Associate Professor, Department of Mechanical Engineering has published a paper titled ,” Investigation of Dry Sliding Wear Properties of Multi-directional Forged Mg-Zn Alloys” in Journal of Magnesium and Alloys, <https://doi.org/10.1016/j.jma.2019.05.008>, Volume 7, Issue 3, September 2019, pp: 444-455.
- Mr. Pavana Kumar, Assistant Professor(Sr.), Department of Mechanical Engineering has published a paper titled ,” Enhancement in Microhardness of Free Machining Brass in Ball Burnishing”, in International Journal of Vehicle Structures & Systems , ISSN: 0975-3060, Volume 11, Issue 7, December 2019.
- Mr. Pavana Kumar, Assistant Professor(Sr.), Department of Mechanical Engineering has published a paper titled ,” Investigation Studies on the influence of Abrasive Particles in Ball Burnishing Process”, in Journal of Materials and Environmental Sciences , ISSN: 2028-2508, Volume 11, Issue 3, February 2020, pp: 421-428.
- Mr. Pavana Kumar, Assistant Professor (Sr.) & Mr. V Vijendra Bhat, Assistant Professor (Sr.), Department of Mechanical Engineering have published a paper titled , ”Effect of Ball Burnishing Medium on the Surface Characteristics of Free Machining Brass”, in Journal of Modern Manufacturing Systems and Technology, Volume 4, Issue 1, March 2020, pp: 110-116.
- Dr. Raja Yateesh Yadav, Assistant Professor (Sr.), Department of Mechanical Engineering has published a paper titled, “Experimental and Numerical Investigations on Heat Transfer Characteristics of Open Cell Al6061 Alloy Foam”, in International Journal of Research, ISSN : 2236-6124, Volume 8, Issue 6, June 2019, pp:5854-5868.
- Mr. Ganesh R Kalagi, Assistant Professor (Sr.), Department of Mechanical Engineering has published a paper titled, "Properties of Glass Fiber Hybridized Woven Flax and Sisal Fabric Hybrid Composites" in International Journal of Research and Analytical Reviews (IJRAR), Volume 6, Issue 1, e- ISSN:2348-1269, p-ISSN:2349-5138, January 2019, pp.1019-1026.
- Mr. Ganesh R Kalagi, Assistant Professor (Sr.), Department of Mechanical Engineering has published a paper titled, “Erosion Wear Behavior of SiC Nano Powder Filled Flax and Sisal Fabric Hybrid Composites with Taguchi Experimental Design”, in International Journal of Recent Technology and Engineering (IJRTE),ISSN:2277-3878, DOI:10.35940/ijrte.B1605.078219, Retrieval Number: B1605078219/19©BEIESP, Volume 8, Issue 2, July 2019. pp: 111-115.
- Mr. Narayan Nayak, Assistant Professor(Sr.), Department of Mechanical Engineering has published a paper titled ,” The Effect of Reinforcing Sisal Fibers on the Mechanical and Thermal Properties of Polypropylene Composites” in Journal of Materials and Environmental Sciences(JMESCN), ISSN: 2028-2508, Volume 10, Issue 12, November 2019, pp: 1238-1249.
- Dr. Raja Yateesh Yadav, Assistant Professor (Sr.), Department of Mechanical Engineering has published a paper titled, “Improvement of Mechanical Properties of Aluminium 6061 based Metal Matrix Composite with Addition of Granite Particulate”, in International Journal of Innovative Technology and Exploring Engineering(IJITEE),

ISSN: 2278-3075, Volume 9, Issue 7, May 2020, pp:296-298.

FACULTY PAPER PRESENTATION & PUBLICATIONS IN CONFERENCE PROCEEDINGS

- Mr. Ganesh R Kalagi, Assistant Professor(Sr.), Department of Mechanical Engineering has presented a paper titled, " Performance Characterizations of Natural Fiber Reinforced Hybrid Composite Materials for Wind Turbine Blades", and secured 2nd Place in International Conference on Recent Advances in Applied Sciences (ICRAAS -2019) held at School of Applied Sciences, Reva University, Bengaluru on 17th and 18th October 2019.
- Dr. Raja Yateesh Yadav, Assistant Professor(Sr.), Department of Mechanical Engineering has presented a paper titled, "Development of Eco-friendly Silencer", in 2nd International Conference on Advances in Mechanical Engineering Sciences - 2K20 held at P.E.S College of Engineering, Mandya on 28th and 29th February 2020.
- Mr. Ananth Mallya, Assistant Professor (Sr.), Department of Mechanical Engineering has presented a paper titled "Experimental Investigation in Determining Optimum Working Temperature for a 4-Stroke Air-Cooled Motorcycle Engine" in International Conference on Emerging Trends in Science and Engineering (ICETSE 2020) held at Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi from 10th to 11th July 2020.
- Mr. Manjunath S, Assistant Professor (Sr.), Department of Mechanical Engineering has presented a paper titled "Study of Performance and Emission analysis of IDI Diesel Engine using Methanol and Ethanol blends" in International Conference on Emerging Trends in Science and Engineering (ICETSE 2020) held at Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi from 10th to 11th July 2020.
- Mr. Madhukar Nayak, Assistant Professor (Sr.), Department of Mechanical Engineering has presented a paper titled "Determinants of Entrepreneurial Intention among Engineering Students: Application of Theory of Planned Behaviour" in International Conference on Emerging Trends in Science and Engineering (ICETSE 2020) held at Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi from 10th to 11th July 2020.
- Mr. Kishor Kumar Aroor, Assistant Professor (Sr.), Department of Mechanical Engineering has presented a paper titled "An Engineering student's viewpoint on the implementation of active learning techniques and modern tools for the teaching-learning process" in International Conference on Emerging Trends in Science and Engineering (ICETSE 2020) held at Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi from 10th to 11th July 2020.
- Mr. Lingaraj Ritti, Assistant Professor (Sr.), Department of Mechanical Engineering has presented a paper titled "Design and Numerical Analysis of Friction Stir Processing Tool for Magnesium Alloy Based Surface Composites" in International Conference on Emerging Trends in Science and Engineering (ICETSE 2020) held at Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi from 10th to 11th July 2020.

FACULTY RECOGNITIONS/ ACHIEVEMENTS / ACCOMPLISHMENTS

- Dr. Thirumaleshwara Bhat nominated by VTU as Governing Council member of Jain College of Engineering, Belagavi.
- Dr. Thirumaleshwara Bhat appointed as the member of Academic Council of NMAMIT Nitte.
- Dr. Sudarshan Rao K, appointed as BOE member of VTU Belagavi for the academic year 2019-20.
- Dr. H Udaya Prasanna, appointed as BOE member of VTU Belagavi for the academic year 2019-20.
- Dr. Thirumaleshwara Bhat, was the resource person for the TEQIP 1.3 sponsored Five Day Training Program on "Outcome Based Education and NBA Accreditation" at Mangalore Institute of Technology and Engineering, Moodabidri on 30th December 2019.
- Dr. Sudarshan Rao K, was the resource person for one day State Level Workshop on "NAAC peer team visit- Issues and Concerns" held at SDM College of Business Management, Post Graduate Centre for Management studies and Research, Mangaluru on 15th February 2020.
- Mr. Ravinarayan R Rao, was the resource person for Placement Training Program held on 12th October 2020 at Jawaharlal Nehru National College of Engineering (JNNCE), Shivamogga.
- Dr. Raja Yateesh Yadav has been awarded with Doctor of Philosophy (Ph.D) by VTU, Belagavi for the thesis titled "Experimental and Numerical Investigation on Metal Foam in Air Cooling Heat Exchangers" under the guidance of Dr. D P Girish, Professor, Department of Mechanical Engineering, Government Engineering College, Ramanagara on 8th February 2020.
- NPTEL Online Certificate and NPTEL- AICTE Online Certificate both are awarded to Dr. Gajanan Anne, Associate Professor, Department of Mechanical Engineering in September 2018 for successful completion of the course and Faculty development Programme of " Manufacturing of Composites".
- NPTEL Online Certificate and NPTEL- AICTE Online Certificate both are awarded to Dr. Raja Yateesh Yadav, Assistant Professor (Sr.), Department of Mechanical Engineering in October 2019 for successful completion of the course and Faculty development Programme of "Developing Soft Skills and Personality".
- NPTEL Online Certificate is awarded to Mr. Manjunath S, Assistant Professor (Sr.), Department of Mechanical Engineering in October 2019 for successful completion of the course of "Turbulent Combustion: Theory and Modelling".
- NPTEL Online Certificate and NPTEL- AICTE Online Certificate both are awarded to Mr. Aditya Kudva S, Assistant Professor (Sr.), Department of Mechanical Engineering in September 2019 for successful completion of the course and Faculty development Programme of "Biomaterials for Bone Tissue Engineering Applications".
- NPTEL- AICTE Online Certificate is awarded to Mr. Sudhir, Assistant Professor (Sr.), Department of Mechanical Engineering in October 2019 for successful completion of the Faculty Development Programme of "E- Business".

FDP/WORKSHOP / SEMINAR ATTENDED BY THE FACULTY MEMBERS

- Dr. Thirumaleshwara Bhat, Principal & Professor, Department of Mechanical Engineering has successfully completed the online Work shop on Universal Human Values on the theme

“inculcating Universal Human Values in Technical Education” organised by All India Council for Technical Education (AICTE) during 2-6 May 2020.

- Dr. Sudarshan Rao K, Professor & Head, Department of Mechanical Engineering has successfully completed a One Week Short Term Training Programme Through ICT Mode On “Problem Based Learning” conducted by NITTTR, Kolkata held at Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udipi from 11th to 15th February 2019.
- Dr. Sudarshan Rao K, Professor & Head, Department of Mechanical Engineering has attended a Three day IUCEE International Engineering Educator Certification Program (IIEECP), Phase I workshop from 5 to 7 August 2019 at St. Joseph Engineering College, Mangaluru from 5th to 7th August 2019.
- Dr. Sudarshan Rao K, Professor & Head, Department of Mechanical Engineering has attended TEQIP 1.3 sponsored Five Day Program on “Outcome Based Education and NBA Accreditation” at St. Joseph Engineering College, Vamanjoor, Mangaluru from 30th December 2019 to 3rd January 2020.
- Dr. Gajanan Anne, Associate Professor, Department of Mechanical Engineering has actively participated in the Exhibition of Academia Project at IMTEX Forming & Tooltech 2020 held at IMTMA Technology Centre, Bangalore from 23-28 January 2020.
- Mr. Ananthesh Rao K, Assistant Professor (Sl. Gd.), Department of Mechanical Engineering has attended a Five-Day Faculty Development Programme on Biofuels and its Applications at MEA Engg. College, Kerala from 01.06.2020 to 05.06.2020.
- Mr. Ananthesh Rao K, Assistant Professor (Sl. Gd.), Department of Mechanical Engineering has attended a Five-Day Faculty Development Programme on Research Methodology at KSTA, Karnataka from 17.06.2020 to 21.06.2020.
- Dr. Raja Yateesh Yadav, Assistant Professor (Sr.), Department of Mechanical Engineering has successfully completed a One Week AICTE- VTU Joint Training Programme for Teachers on “An Overview of Teaching Techniques in Turbomachines” organized by VTU Human Resource Development Centre (VTU- HRDC) at Centre for PG studies, Muddenahalli, Chikkaballapur from 22-26 July 2019.
- Dr. Raja Yateesh Yadav, Assistant Professor (Sr.), Department of Mechanical Engineering has successfully completed the NPTEL- AICTE Sponsored 1 week Faculty Development Program on “Developing Soft Skills and Personality” in October 2019.
- Mr. Ravinarayan R Rao, Assistant Professor (Sr.), Department of Mechanical Engineering has attended a Two-Day Faculty Development Program on “VIRTUAL LABORATORY” held at Visvesvaraya Technological University, Belagavi on 19th and 20th February 2020.
- Mr. Sudhir, Assistant Professor (Sr.), Department of Mechanical Engineering has successfully completed the NPTEL- AICTE Sponsored 1½ week Faculty Development Program on “E- Business” in October 2019.
- Mr. Aditya Kudva, Assistant Professor (Sr.), Department of Mechanical Engineering has successfully completed the NPTEL- AICTE Sponsored 1-week Faculty Development Program on “Biomaterials for Bone Tissue Engineering Applications” in September 2019.

- Mr. Kishor Kumar Aroor, Assistant Professor(Sr.), Department of Mechanical Engineering has attended a Three day IUCEE International Engineering Educator Certification Program(IIEECP), Phase I workshop from 5 to 7 August 2019 at St. Joseph Engineering College, Mangaluru from 5-7 August 2019.
- Mr. V Vijendra Bhat, Assistant Professor (Sr.), Department of Mechanical Engineering has attended a One Day Conference on “New Education Policy” held at Sri Dharmasthala Manjunateshwara College (Autonomous), Ujire on 29th July 2019.
- Mr. V Vijendra Bhat, Assistant Professor (Sr.), Department of Mechanical Engineering has attended a One Day hands on Workshop on “ 3D Printing ” organized by 3 Ding held at Bangalore on 7th September 2019.
- Mr. V Vijendra Bhat, Assistant Professor (Sr.), Department of Mechanical Engineering has attended a Five Day Faculty Development Programme on “Modeling Fundamentals and PYTHON for Numerical Simulation and Applied Artificial Intelligence for Mechanical Engineering Systems Research” held at N.M.A.M. Institute of Technology , Nitte from 18th to 22nd December 2019.
- Mr. Ganesh R Kalagi, Assistant Professor (Sr.), Department of Mechanical Engineering has attended a one-day workshop on “Art of Thesis writing” conducted by Rehoboth Academic Services at Rosario College of Management Studies, Mangaluru on 3rd August 2019.
- Mr. Ganesh R Kalagi, Assistant Professor (Sr.), Department of Mechanical Engineering has attended as a staff Incharge of a Three day Training on Hydraulics of Pneumatics at VTU Bosch Rexroth Centre of Competence, Mysuru from 24th to 26 September 2019.
- Mr. Ganesh R Kalagi, Assistant Professor (Sr.), Department of Mechanical Engineering has actively participated in the Exhibition of Academia Project at IMTEX Forming & Tooltech 2020 held at IMTMA Technology Centre, Bangalore from 23-28 January 2020.
- Mr. Madhukara Nayak, Assistant Professor (Sr.), Department of Mechanical Engineering has attended a AICTE/ MHRD’s Innovation Cell organized Two day Innovation Ambassador Training Program held at ACS College of Engineering, Bengaluru from 26th to 27th February 2020.
- Mr. Manjunath S, Assistant Professor (Sr.), Department of Mechanical Engineering has attended as a staff Incharge of a Three day Training on Hydraulics of Pneumatics at VTU Bosch Rexroth Centre of Competence, Mysuru from 24th to 26 September 2019.
- Mr. Manjunath S, Assistant Professor (Sr.), Department of Mechanical Engineering has participated in an AICTE Sponsored One week Short Term Course “Advances in Thermofluidics of Multiphase Flows” organized by Centre for Continuing Education, Indian Institute of Technology, Madras from 04th to 09th November 2019.
- Mr. Narayan Nayak, Assistant Professor (Sr.), Department of Mechanical Engineering has attended a One Day hands on Workshop on “ 3D Printing ” organized by 3 Ding held at Bangalore on 7th September 2019.
- Mr. Karthik V, Assistant Professor, Department of Mechanical Engineering has successfully completed a One Week Short Term Training Programme Through ICT Mode On “Problem Based Learning” conducted by NITTTR, Kolkata held at Shri Madhwa Vadiraja Institute of

Technology and Management, Bantakal, Udupi from 11th to 15th February 2019.

- Mr. Karthik V, Assistant Professor (Sr.), Department of Mechanical Engineering has attended AICTE Organized 7 days "Faculty Development Program for Student Induction (FDP-SI)" held at Sahyadri College of Engineering & Management, Mangaluru from 18 June-24 June 2019.
- Mr. Karthik V, Assistant Professor (Sr.), Department of Mechanical Engineering has attended Five Days Full Time Workshop Entitled "Student Mental Health Promotion" held at Nimhans, Bengaluru from 3 February-7 February 2020.

SEMINAR/ WORKSHOP/ SDP ATTENDED BY THE TECHNICAL STAFF MEMBERS

- Mr. C Srikanth Bhat has Participated in 5 online Quiz organized by various Institutions on May-June 2020.
- Mr. C Srikanth Bhat has Participated in Online training Program on "Effective Utilization of Online Resources using Knimbus Platform" organized by Knimbus in association with SMVITM, Bantakal on 09.06.2020.
- Mr. C Srikanth Bhat has participated in 12 ICC Online Sessions conducted by Institutions Innovations Council of MHRD's Innovation Cell, New Delhi from 28.04.2020 to 22.05.2020.
- Mr. Ganeshprasad Sharma has Participated in 11 ICC Online Sessions conducted by Institutions Innovations Council of MHRD's Innovation Cell, New Delhi from 28.04.2020 to 22.05.2020.
- Mr. Nagaraj Kalathooru has Attended Online COVID- 19 Quiz Contest organized by Regional

College Pharmacy, Sitapura, Jaipur, Rajasthan on 18.05.2020.

- Mr. Nagaraj Kalathooru has Attended Online IFS Forensic Science Quiz Organized by IFS, India(Indian Forensic Sciences), Pune in association with World Health Organization(WHO) on 18.05.2020.
- Mr. Nagaraj Kalathooru has Attended Online Spitting Skills campaign organized by Narayana Health, Bengaluru on 18.05.2020.
- Mr. Nagaraj Kalathooru has Attended Online Rules of Lockdown During COVID- 19 Quiz Contest organized by Deepshikha Teachers Training College, Rajasthan on 20.05.2020.
- Mr. Nagaraj Kalathooru has Attended Online COVID- 19 Quiz on Management & Economics organized by University of Technology, Jaipur, Rajasthan on 20.05.2020.
- Mr. Nagaraj Kalathooru has Attended Online Quiz on Design Engineering 2020 organized by Sri Krishna Institute of Technology, Bengaluru on 27.05.2020.
- Mr. Nagaraj Kalathooru has Attended online AITSMECH- 2020 online Quiz organized By Annamcharya Institute of Technology and Sciences Rajampet, Andhra Pradesh on 21.05.2020.
- Mr. Nagaraj Kalathooru has Attended Online Awareness Quiz Program On Outcome based Education and NBA procedures organized By Sri Ranganathar Institute of Engineering & Technology , Coimbatore, Chennai on 14.05.2020.
- Mr. Nagaraj Kalathooru has Attended Online Computer Awareness Quiz organized by

Deepshikha Teachers Training College, Rajasthan on 20.05.2020.

- Mr. Nagaraj Kalathooru has Attended Online Corona Pandemic Quiz organized by Regional College for Education Research & Technology, Sitapura, Jaipur, Rajasthan on 20.05.2020.
- Mr. Nagaraj Kalathooru has Attended Online E-Learning Skills Enhancement Quiz Organized by University of Technology, Jaipur, Rajasthan on 20.05.2020.
- Mr. Nagaraj Kalathooru has Attended Online IT Skills Enhancement Quiz Organized by Regional College for Education Research & Technology, Sitapura, Jaipur, Rajasthan on 20.05.2020.
- Mr. Nagaraj Kalathooru has Attended Online Webinar on Leadership Talk with Dr. Nilesh N Oak and Dr. Abhay Jere organized by MHRD's Innovation Cell, New Delhi on 30.05.2020.
- Mr. Nagaraj Kalathooru has Attended Online Leadership Talk by Dr. Pramod Chaudhari, Founder, Chairman, Praj Industries Limited & Dr. Abhay Jere, Chief Innovation Officer, MHRD Cell, organized by MHRD's Innovation Cell, New Delhi on 16.05.2020.
- Mr. Nagaraj Kalathooru has Attended Online Leadership Talk by Dr. Mahesh Babu, CEO, Mahindra Electric Mobility Limited & Dr. Abhay Jere, Chief Innovation Officer, MHRD Cell, organized by MHRD's Innovation Cell, New Delhi on 23.05.2020.
- Mr. Nagaraj Kalathooru has Attended Online Inter-collegiate Communication Skill Quiz organized By Lords Universal College, Mumbai on 27.05.2020.
- Mr. Nagaraj Kalathooru has Attended Online Webinar on New Norms for the Manufacturing

Industry going forward: Impact of COVID-19 organized by Reed Triune Exhibitions Pvt. Ltd on 14.05.2020.

- Mr. Nagaraj Kalathooru has Attended Online Ayush Sanjivani Quiz organized By Ministry of Ayush, Govt.of India, New Delhi on 03.06.2020.
- Mr. Nagaraj Kalathooru has Attended Online Ek Bharath Shreshtha Bharath Quiz organized By Ministry of Tourism, Govt.of India, New Delhi on 03.06.2020.
- Mr. Nagaraj Kalathooru has Attended Online Webinar on "Manufacturing in Current Scenario: Industry 4.0" organized by GM Institute of Technology, Davanagere on 04.06.2020.
- Mr. Nagaraj Kalathooru has Attended Online Webinar on "Nanofluid Applications In Engineering" organized by Vishnu Institute of Technology, Bhimavaram, Andhra Pradesh on 01.06.2020.
- Mr. Nagaraj Kalathooru has Attended Online Webinar on "How To Combat Examination Fear?" organized by St. Agnes College (Autonomous) Mangaluru on 09.06.2020.
- Mr. Nagaraj Kalathooru has Attended Online Quiz On " Computational Fluid Dynamics" Organized by Reva University, Bengaluru on 05.06.2020.
- Mr. Nagaraj Kalathooru has Attended Online SME Technical Webinar Series 2020 on "Welding of Weathering steel" organized by CMR Institute of Technology, Bengaluru on 10.06.2020.
- Mr. Nagaraj Kalathooru has Attended Online Quiz on "Start-up, Innovation and IPR" organized by Institution Innovation Cell, Shri Madhwa Vadiraja Institute of Technology , Bantakal on 12.06.2020.

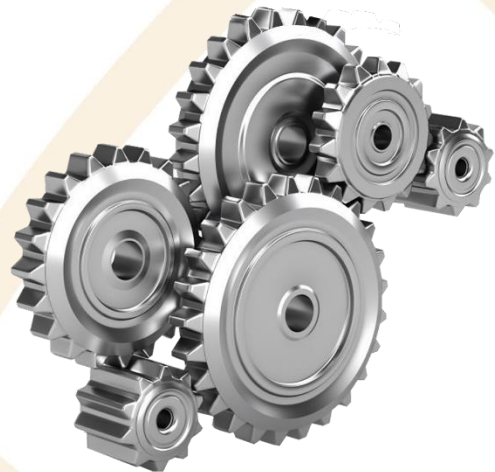
- Mr. Nagaraj Kalathooru has Attended Online Leadership Talk by Ms. Ashwini Deshpande, Co Founder & Director, Elephant Design & Dr. Abhay Jere, Chief Innovation Officer, MHRD Cell, organized by MHRD's Innovation Cell, New Delhi on 06.06.2020.
- Mr. Nagaraj Kalathooru has Attended Online Leadership Talk by Shri R. Subramanyam , IAS(Secretary, Ministry of Social Justice and Empowerment) & Dr. Abhay Jere, Chief Innovation Officer, MHRD Cell, organized by MHRD's Innovation Cell, New Delhi on 13.06.2020.
- Mr. Nagaraj Kalathooru has Attended Online Webinar on " Scope and Future of solar Energy as a sustainable Source" organized by IEEE RVCE student Branch, RV College of Engineering, Bengaluru on 11.06.2020.
- Mr. Nagaraj Kalathooru has Attended Online Training Program on "Effective Utilisation of Online Resources using Knimbus Platform" organized by Knimbus in association with SMVITM, Bantakal on 09.06.2020.
- Mr. Nagaraj Kalathooru has Attended Online skill Development Programme on " Career Guidance and need for IELTS in Higher Education" organized by Panimalar Institute of Technology, Poonamallee, Chennai on 02.06.2020.
- Mr. Nithin Kumar Jain has Participated in 12 ICC Online Sessions conducted by Institutions Innovations Council of MHRD's Innovation Cell, New Delhi- Certificates Attached from 28.04.2020 to 22.05.2020.
- Mr. Nithin Kumar Jain has Attended Online AITSMECH- 2020 online Quiz organized By Annamcharya Institute of Technology and Sciences Rajampet, Andhra Pradesh on 22.05.2020.
- Mr. Nithin Kumar Jain has Attended Online Quiz on Design Engineering 2020 organized by Sri Krishna Institute of Technology, Bengaluru on 27.05.2020.
- Mr. Nithin Kumar Jain has Attended Online Leadership Talk by Dr. Mahesh Babu, CEO, Mahindra Electric Mobility Limited & Dr. Abhay Jere, Chief Innovation Officer, MHRD Cell, organized by MHRD's Innovation Cell, New Delhi on 23.05.2020.
- Mr. Nithin Kumar Jain has Attended Online Rules of Lockdown During COVID- 19 Quiz Contest organized by Deepshikha Teachers Training College, Rajasthan on 22.05.2020.
- Mr. Nithin Kumar Jain has Attended Online Inter-Collegiate Communication Skill Quiz organized By Lords Universal College, Mumbai on 27.05.2020.
- Mr. Nithin Kumar Jain has Attended Online Quiz on "Know About Counselling" Organized by Shri Madhwa Vadiraja Institute of Technology , Bantakal on 16.06.2020.
- Mr. Nithin Kumar Jain has Attended Online Quiz on "Start-up, Innovation and IPR" Organized by Institution Innovation Cell, Shri Madhwa Vadiraja Institute of Technology , Bantakal on 12.06.2020.
- Mr. Prasad Kotian has Participated in 13 ICC Online Sessions conducted by Institutions Innovations Council of MHRD's Innovation Cell, New Delhi- Certificates Attached from 28.04.2020 to 22.05.2020.
- Mr. Rajashankara has Attended Online AITSMECH- 2020 online Quiz organized By Annamcharya Institute of Technology and Sciences Rajampet, Andhra Pradesh on 22.05.2020.

- Mr. Rajashankara has Attended Online COVID-19 Quiz Contest organized by Regional College Pharmacy, Sitapura, Jaipur, Rajasthan on 18.05.2020.
- Mr. Rajashankara has Attended Online IT Skills Enhancement Quiz Organized by Regional College for Education Research & Technology, Sitapura, Jaipur, Rajasthan on 21.05.2020.
- Mr. Rajashankara has Attended Online IFS Forensic Science Quiz Organized by IFS, India(Indian Forensic Sciences), Pune in association with World Health Organization(WHO) on 19.05.2020.
- Mr. Rajashankara has Attended Online COVID-19 Quiz on Management & Economics organized by University of Technology, Jaipur, Rajasthan on 20.05.2020.
- Mr. Rajashankara has Attended Online Spitting Skills campaign organized by Narayana Health, Bengaluru on 19.05.2020.
- Mr. Rajashankara has Attended Online Quiz on "Start-up, Innovation and IPR" Organized by Institution Innovation Cell, Shri Madhwa Vadiraja Institute of Technology , Bantakal on 12.06.2020.
- Mr. Rajashankara has Participated 14 ICC Online Sessions conducted by Institutions Innovations Council of MHRD's Innovation Cell, New Delhi- Certificates Attached from 28.04.2020 to 22.05.2020.
- Mr. Srikanth Shettigar has Attended Online Leadership Talk by Dr. Pramod Chaudhari, Founder, Chairman, Praj Industries Limited & Dr. Abhay Jere, Chief Innovation Officer, MHRD Cell, organized by MHRD's Innovation Cell, New Delhi on 16.05.2020.
- Mr. Srikanth Shettigar has participated in Online IFS Forensic Science Quiz Organized by IFS, India(Indian Forensic Sciences), Pune in association with World Health Organization(WHO) on 19.05.2020.
- Mr. Srikanth Shettigar has Attended Online Leadership Talk by Dr. Mahesh Babu, CEO, Mahindra Electric Mobility Limited & Dr. Abhay Jere, Chief Innovation Officer, MHRD Cell, organized by MHRD's Innovation Cell, New Delhi on 23.05.2020.
- Mr. Srikanth Shettigar has Attended Online Quiz on "Start-up, Innovation and IPR" Organized by Institution Innovation Cell, Shri Madhwa Vadiraja Institute of Technology , Bantakal on 11.06.2020.
- Mr. Srikanth Shettigar has Attended Online Quiz on "Know About Counselling" Organized by Shri Madhwa Vadiraja Institute of Technology , Bantakal on 16.06.2020.
- Mr. Srikanth Shettigar has Attended Online Quiz on Design Engineering 2020 organized by Sri Krishna Institute of Technology, Bengaluru on 27.05.2020.
- Mr. Srikanth Shettigar has Attended online AITSMECH- 2020 Online Quiz organized By Annamcharya Institute of Technology and Sciences Rajampet, Andhra Pradesh on 23.05.2020.
- Mr. Srikanth Shettigar has Attended Online Rules of Lockdown During COVID- 19 Quiz Contest organized by Deepshikha Teachers Training College, Rajasthan on 21.05.2020.
- Mr. Srikanth Shettigar has Participated in 14 ICC Online Sessions conducted by Institutions Innovations Council of MHRD's Innovation Cell, New Delhi- Certificates Attached from 28.04.2020 to 22.05.2020.

- Mr. Venkatraj Rao P H has Attended Online Quiz on “ Intellectual Property Rights- IPR organized by Reva University, Bengaluru on 08.06.2020.
- Mr. Venkatraj Rao P H has Attended Online COVID- 19 Quiz Contest organized by Regional College Pharmacy, Sitapura, Jaipur, Rajasthan on 18.05.2020.
- Mr. Venkatraj Rao P H has Attended Online IFS Forensic Science Quiz Organized by IFS, India(Indian Forensic Sciences), Pune in association with World Health Organization(WHO) on 19.05.2020.
- Mr. Venkatraj Rao P H has Attended Online Spitting Skills campaign organized by Narayana Health, Bengaluru on 19.05.2020.
- Mr. Venkatraj Rao P H has Attended Online COVID- 19 Quiz Contest organized by Deepshikha Teachers Training College, Rajasthan on 20.05.2020.
- Mr. Venkatraj Rao P H has Attended Online COVID- 19 Quiz on Management & Economics organized by University of Technology, Jaipur, Rajasthan on 20.05.2020.
- Mr. Venkatraj Rao P H has Attended Online Quiz on Design Engineering 2020 organized by Sri Krishna Institute of Technology, Bengaluru on 27.05.2020.
- Mr. Venkatraj Rao P H has Participated in 14 ICC Online Sessions conducted by Institutions Innovations Council of MHRD's Innovation Cell, New Delhi- Certificates Attached from 28.04.2020 to 22.05.2020.
- Mr. Vignesh Kalathooru has Participated in 10 ICC Online Sessions conducted by Institutions Innovations Council of MHRD's Innovation Cell,

New Delhi- Certificates Attached from 20.04.2020 to 22.05.2020.

- Mr. Vignesh Kalathooru has Attended online AITSMECH- 2020 online Quiz organized By Annamcharya Institute of Technology and Sciences Rajampet, Andhra Pradesh on 22.05.2020.
- Mr. Vignesh Kalathooru has Attended Online Quiz “ Know about Counselling” Organized by SMVITM, Bantakal on 16.06.2020.



STUDENT ACHIEVEMENTS

The following students have Presented their papers in International Conference on Emerging Trends in Science and Engineering (ICETSE 2020) held at Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi from 10th to 11th July 2020.

S.No.	Name	Paper Title
1	Mr. Anirudh Rao	Multidirectional Forging of Binary Mg-Zn Alloy and its Performance
2	Mr. Dhanush	Design and Development of Modular Reversing System in Scooter for Physically Challenged People
3	Mr. Govindraj Tantri	Finite element analysis of friction stir processing
4	Mr. K Praveen Shenoy	Implementing Sliding Mode Controller for a FOPDT System
5	Mr. Prajath P Sherigar	Development of Seat Actuated Parking Brake Using Rack and Pinion
6	Mr. Pranav Mohan	Retractable stabilizer wheel supported bicycle
7	Mr. Prasad V Acharya	Fabrication Of Pesticide Series Spraying Machine For Agricultural Purpose
8	Mr. Prathik Chandrakanth Shenoy	Hybrid energy water pumping system for agriculture irrigation
9	Mr. Shreyas Shetty	Electrical characterisation of sisal reinforced polypropylene composites
10	Mr. Gurudeep K P	Fabrication of Raw Cashew Nut Destoner
11	Mr. Aafaque A Siddique	Influence of Multi Directional Forging on Biodegradable Mg-Zn-Mn alloy
12	Mr. Kotian Rakshith Sadananda	Improving Functional Properties of Mg-4Zn-1Sr alloy using Cryo Ball Burnishing Technique
13	Mr. Sachindra Serigar	Evaluation of mechanical properties of bamboo and banana fibre composites
14	Mr. Sahil Khaleel	Pesticide Spraying System Using Wired Drone
15	Mr. Fardin Ahamed	Development Of Wet Food Waste Converter for Clean India Mission

Project Sponsorship

Sl. No.	Student name	Name of the Guide	Project Title	Funding Agency	Total Amount Sanctioned
1	Abhishek Deekshith Nagesh Krishna Kamat	Dr. Sudarshan Rao K	Design and Fabrication of Sugar Cane Juice Extractor With Peeler	Karnataka State Council for Science and Technology	6000
2	Abhishek Ashwin M Deepak Achar Dhanush	Mr. Ravinarayan R Rao	Design and Development of Modular Reversing System in Scooter for Physically Challenged	Karnataka State Council for Science and Technology	6000
3	Rakshith N Shreyas Poojary Swasthik B Acharya Vignesh Nayak S	Mr. Kiran N Bhat	Effects of Nanomaterials on Performance and Emission Characteristics of Hybrid Biofuel of Jackfruit Seeds / Fish Bones	Karnataka State Council for Science and Technology	6000
4	Abhishek Ashwin M Deepak Achar Dhanush	Mr. Ravinarayan R Rao	Design and Development of Modular Reversing System in Scooter for Physically Challenged	Project competition "AVISHKAR" by TEQIP cell of VTU Belagavi	5000

Compiled by-
Ananthesh Rao K, Asst. Professor, (Sel. G), Dept. of Mech. Engg.