YEAR: 2022-23 VOL: 8 **ISSUE: 1** A NEWSLETTER OF THE DEPARTMENT **MECHANICAL ENGINEERING**

SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY & MANAGEMENT

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

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Department of Mechanical Engineering

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 student- centric learning intellectual curiosity and and spirit of innovation is provides state of art laboratories in various engineering. The department committed team of faculty specializations in different



department are designed with approach in such a way that creativity of students is simulated instilled in them. The department infrastructure and well- equipped disciplines of mechanical has well qualified, competent and members who have their 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 be recognized as a center of eminence in mechanical engineering for research on modern technologies and comprehensive engineering education"

Mission

- > Develop transformative leaders in the field of mechanical engineering with an ability to work in a multi-disciplinary environment to fulfil the social requirements.
- > Give students a platform and an academic environment that will ensure the transfer of knowledge and skills.
- > Nurture the students' overall personality development through initiatives with high credibility, social effect and sustainability.

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.

Poster making Competition on the Occasion of "World Energy Conservation Day"

The Department of Mechanical Engineering at Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal had organized a Poster making competition on the occasion of "World Energy Conservation Day" on 14th December, 2022. The theme of the program had been 'Forests and Livelihoods:, Sustaining People and the Planet'. A large number of students nearly 150 from all years were participated actively in the event.



Online Alumni Interaction

The Alumni cell had organized an Alumni Interaction for 3rd and 4th -year students of Mechanical Engineering on 18/11/2022 from 11.15 am to 12.15 pm in Seminar hall admin block.

Dr. Sudarshan Rao K. HOD of Mechanical Engineering Welcomed the Resource person, students and faculties and Mr. Lingaraj Ritti, Sr. Assistant Professor and Alumni coordinator introduced the resource person to the attendees.

The students got the opportunity to interact with one of the renowned Alumnus Mr. Manohar J K, working as an Associate Consultant, for global delivery strategy and planning Infosys. Bengaluru.

He started his talk by showing his thankfulness towards the department and college, shared his earlier experience of how he got into the IT company, and also explained about GATE exam preparation and the importance of the same in the future for getting jobs in Government sectors. Further, he talked about the role of students in their academic careers they should emphasize more on practical knowledge, Technical skill sets such as knowledge of analysis, modeling, and automation CNC programming software and IT-related courses like Java scripts, Python, coding and at least students should know about Clanguage to get into IT companies.

Most of the students interacted with the resource person

and asked about the placement drive process of IT companies and the training process after getting jobs in IT companies, and also asked about agreements or bond policies of IT companies.

Students also asked about rescission in the mechanical field due to automation in manufacturing industries. He explained the automation in the production system and Industry 4.0 and how these recent trends are creating job opportunities for Mechanical Engineers.

The resource person also touched on the global recession in IT companies and the reason for the same and also talked about the recent layoffs of some big IT companies. He finished his talk by saying that plenty of job opportunities were there for Mechanical students, they can switch over to IT companies or they may work in core companies as well provided they should have extra technical skill sets.



Awarding of Ph.D



Dr. Manjunatha S, Assistant Professor (SG.), Department of Mechanical Engineering, SMVITM, Bantakal has been Awarded with Ph.D for the thesis entitled, "Development of A Dual Swirl Chamber for An Idi Engine and Investigations on Its Effect on Engine Performance Using A Biodiesel Blend" under the guidance of Dr. Ramakrishna N Hegde, Professor & HOD, Dept of Automobile Engineering, SIT, Valachil in the month of 24th February 2023.

Department of Mechanical Engineering

Alumni Interaction

The Department of Mechanical Engineering in association with the Alumni cell of SMVITM, had organized an Alumni Interaction for 3rd and 4th -year students of Mechanical Engineering on 17/12/2022 from 9.30 am to 10.30 am in

the department.

Mr. Lingaraj Ritti. Sr. Assistant Professor and Alumni coordinator of Mechanical Engineering Welcomed the Resource person, students, and faculties and Mr. Ananth Mohan Mallya introduced the resource person to the attendees.

Mr. Shreedhar shared, how he is feeling in Canada, and compared with that in India, he doesn't feel any difference in work culture, and he shared his work experience at Mumbai Sahara airport in

the maintenance department. Further, he gave information about how and when to apply for MS abroad and also shared his experience during his ME course, classes, and practical sessions.

Mr. Bhat also shared his work experience as a design engineer at Honda manufacturing company. They were supposed to follow the standard ASME procedures to design various components of the automobiles before designing and manufacturing the final product, in that context, he advised the students to keep their textbooks

and handbooks for their future reference and advised the students to learn as much as possible in the remaining years.

He continued his talk by advising the students to have

their own goals and need to learn and work to achieve the same in the future, to do so he told students must have knowledge of modeling and analysis software.

He mentioned that he is very much grateful to the college, department, and faculties for giving him a life-changing moment and for motivating him to achieve his goals.

At the end of his talk, he explained the job opportunities in the manufacturing sector in India as well as in Canada. According to him in the future, a lot of scope will be there

for Mechanical engineers

Dr. Sudarshan Rao K thanked Mr. Bhat and gave him a bag as a token of love and respect.



Career Opportunities for Mechanical Engineering Graduates

An alumni talk on "Career Opportunities for Mechanical Engineering Graduates" on 29 June 2023 at 06:00 PM in the online mode. Our proud alumnus of 2017-2021 batch Mr. Nishanth Prabhu K, currently working as Systems Engineer (BFSI unit) at Tata Consultancy Services, Bengaluru was the resource person of the program.

Mr. Nishanth Prabhu K, in his address briefed the career opportunities for mechanical engineering graduates in IT sector as well as in the core domain. He gave tips for cracking written test in the placement drives. He elaborated career opportunities at TCS, growth prospectus and his own experience at TCS.

Department alumni coordinator Mr. Karthik V was

coordinated the program. Around 30 students and few faculty members have joined the program online. HOD of Mechanical Engineering Dr. Raja Yateesh Yadav has thanked all the attendees.



The Internal Quality Assurance Cell (IQAC) in association with Department of Mechanical Engineering has organised a 30 Hours (4 Week) Certificate Course on "Ergonomics and Industrial Design in Product Development" for 2nd Year



Students of various branches from 24 July 2023 to 23 August 2023. Dr. Sudarshan Rao K, Dean (QA) and Professor, Department of Mechanical Engineering, SMVITM Bantakal are the Resource persons for the Program.14 Mechanical Engineering students were attended the Certificate Course.

2 Day Hands-on Automotive Workshop

The Electric Vehicle Club of SMVITM organized a 2 Day Hands-on Automotive Workshop for 2nd and 3rd Year Students of all branches on 3 and 4 April 2023 from 9.30 am to 4.30 pm in the Admin Block Seminar Hall.

Mr. Ananth Mohan Mallya, Sr. Assistant Professor of Mechanical Engineering and one of the Coordinators of the EV Club welcomed the resource persons, students, and faculties. Mr Suvares introduced the resource person to the attendees.

Mr. Amar and Mr. Ravindra took the students through a guided tour of the history of Yamaha vehicles, followed by hands-on sessions on disassembling and assembling a Yamaha R-15 liquid cooled engine.



An invited talk on Non Destructive Testing



Department of Mechanical Engineering in association with ISTE Student Chapter has organised an invited talk on the topic "Non Destructive Testing" on 16th December 2022 for all

Mechanical Engineering Students. Mr. B. S. Venkatasubramanian, ASNT NDT Level III, Training and



Certification Superintendent, V&G Industrial Testing Laboratories Pvt Ltd, Mangalore was the resource person for the Talk.

Value Added Course On "Revit MEP

The Department of Mechanical Engineering, in association with the Department of Civil Engineering and EduCADD, Udupi has organized Value Added Course On "Revit MEP" from 06 to 11 February 2023. The second year students of Mechanical and Civil Engineering have undergone this course.

Mr. Bharath trainer EduCADD, Udupi gave insight into the importance of learning the software to prepare students



to become entrepreneurs and to increase the job opportunities by making them industry ready by bridging the gap between Industry and Curriculum. In his address, he highlighted that it is of higher priority for the civil engineers to understand the digital techniques and proper software skills to build the infrastructure development and modern machines with futuristic views.

A mechanical engineer is able to do everything.

-Wouter Van Den Bosch, mechanical engineer

Department of Mechanical Engineering

Webinar on the topic "Industry 4.0"



Department of Mechanical Engineering in association with ISTE Student Chapter has organised an invited webinar on the topic "Industry 4.0" on 12-11-2022 at 11:00 am in Seminar Hall (Admin Block). Mr. Subarno Bhattacharya, Deputy Registrar, Directorate of Online Education, Manipal University, Jaipur was the resource person.

Fluid Power Engineering practical classes for the students of GPT, Kaup

The Department of Mechanical Engineering, has conducted Fluid Power Engineering practical classes for the students of Government Polytechnic, Kaup on 12 and 13 December 2022. The second year diploma (Automation & Robotics) students of Government Polytechnic, Kaup have conducted experiments of Fluid Power Engineering practical course. Dr. Raja Yateesh Yadav, Associate Professor in the department gave brief introduction about the Fluid Power Engineering laboratory. Our technical staff Mr. Ganesh Prasad Sharma and Mr. Vignesh Kalathooru have assisted the students to conduct various experiments in the laboratory.

This program was coordinated by Dr. Raja Yateesh Yadav briefed about the various facilities available in the department and opportunities for the diploma holders to pursue higher education.



Mr. Manjunath Prasad, Principal of Government Polytechnic, Kaup has thanked the college authorities for conducting practical classes for their students.

Machine Tool Technology practical classes for the students of GPT, Kaup

Machine Tool Technology practical classes were conducted for the students of Government Polytechnic, Kaup on 20 and 21 December 2022. The second year diploma (Automation & Robotics) students of Government Polytechnic, Kaup have prepared the models using lathe, drilling machine and milling machines in the machine shop. The students are also



given demonstration of machining operations using CNC lathe and CNC Vertical Machining Centre.

Mr. Karthik V, Assistant Professor in the department gave brief introduction about the Machine Tool Technology. Our technical staff Mr. Ganesh Prasad Sharma, Mr. Vignesh Kalathooru and Mr. Prasad Kotian have assisted the students in operating machine

Manufacturing Processes practical classes for the students of GPT, Kaup



The Department of Mechanical Engineering, has conducted Manufacturing Processes practical classes for the students of Government Polytechnic, Kaup on 26 and 27 December 2022. The second year diploma (Automation & Robotics) students of Government Polytechnic, Kaup have prepared the foundry and forging models in our foundry and forging shop. The students are also



given demonstration of moulding sand testing and electric arc welding. Mr. Aditya Kudva, Senior Assistant Professor in the department gave brief introduction about the various manufacturing processes. Our technical staff Mr. Ganesh Prasad Sharma, and Mr. Prasad Kotian have assisted the students in making foundry and forging models.

Industrial visit to Udupi Cochin Shipyard Limited, Malpe

The Department of Mechanical Engineering, in association with Entrepreneurship Development Cell of the institute has organized an industrial visit to Udupi Cochin Shipyard Limited, Malpe on 31 March 2023 for the benefit of 2nd and 3rd year students of Mechanical Engineering.

The safety department officials have briefed regarding the safety procedures practiced in the yard. Deputy Manager Mr. Santhosh took the students in to the yard. He explained about the various projects completed and the on-going projects in the Malpe yard. He briefed the students regarding ship-building and the features of the deep-sea finishing ships. The students have visit various facilities such as hull erection & launching capacity, shed with clear height of 30 m for construction of vessels, open bay for vessel construction, wet basin for outfit and commissioning, humidity controlled marine coating shop, transfer bay, winch assisted cradle system etc.

Our alumni of ECE Mr. Vinay Bangera (2010-2014 batch), employee of UCSL, Malpe has interacted with our students



and gave information regarding various job opportunities for the Mechanical Engineering graduates at UCSL. Mr. Prashanth N K, Project Manager of SMVITM, Dr. Raja Yateesh Yadav, HOD of Mechanical Engineering and Dr. Manjunatha S, Asst. Professor (Selection Grade) in the Department of Mechanical Engineering have accompanied the students.

Visit to Shri Matha Industries, Katapady

The Department of Mechanical Engineering, in association with ED Cell of the institute organized a visit to Shri Matha Industries, Katapady on 18 January 2023 for the benefit of 5th sem students of Mechanical Engineering. Shri Matha Industries is the leading manufacturer of paper cups and plates in the locality. Young entrepreneur and our proud alumni Mr. Narasimha Pai established this



industry in the year 2015. The visit was organized to facilitate the students to carry out case study as a part of Management & Economics course. The students gathered the required inputs for their case study. Dr. Sudarshan Rao K, Dean (Quality Assurance) and Professor of Mechanical Engineering coordinated the visit. Mr. Ravinarayan R Rao and Mr. Ananth M Mallya accompanied the students.

Department of Mechanical Engineering

Visit to Virtual Reality, Electric Vehicle and UAV laboratories at NITK campus

The Department of Mechanical Engineering, in association with Entrepreneurship Development Cell of the institute has organized a visit to various research laboratories at National Institute of Technology Karnataka, Surathkal on 10 January 2023 for the benefit of 3rd and 5th semester students of Mechanical Engineering.

In the morning session, Ms. Shreshta Udupi, Senior Research Fellow at Centre for System Design, NITK has conducted a session on "Introduction to Virtual Labs". She has briefed regarding how to conduct experiments using virtual labs. Also given information regarding Real Time Labs. Ms. Thapasya, Junior Research Fellow, has conducted hands on session on conduction of materials testing and fluid mechanics experiments using virtual labs.

In the afternoon session, Dr. Pruthviraj U briefed the students regarding various research activities going on at



Centre for System Design, NITK. This session is followed by visit to Virtual Reality, Electric Vehicle and Unmanned Arial Vehicle laboratories.



DEPARTMENT ACHIEVEMENTS

Final year Student Projects (2 Nos) of Mechanical Engineering Department have been selected by Karnataka State Council for Science and Technology (KSCST), Bengaluru sponsorship amount of worth Rs.16000/- under 46th Series of Student Project Programme: 2022-23. The details are as below.

SI. No.	Title of the Project with Project Ref. No:	Name of the Guide	Project Team	Sanctioned Amount
1	PERFORMANCE ANALYSIS OF CONCENTRATING TYPE SOLAR COOKER WITH PCM STORAGE FOR LATE EVENING COOKING (46S_BE_3311)	Mr. RAVINARAYAN R RAO	1. RATHAN PATKAR (4MW19ME015) 2. SHABARISH R POOJARY (4MW19ME019) 3. SUDEEP DHONDYA (4MW19ME022) 4. VIGHNESH UDUPA (4MW19ME024)	8000/-
2	DESIGN AND DEVELOPMENT OF LEAF PLATE MOLDING MACHINE FOR PRODUCING BIODEGRADABLE PLATES FROM WASTE LEAVES (46S_BE_3790)	Dr. SUDARSHAN RAO K	1. SHESHAGIRI VAIKUNTH PAI (4MW20ME403) 2. PRATHIK AMBALPADY (4MW20ME400) 3. CHANDAN NELLI M K (4MW18ME004) 4. PRATHVIRAJ (4MW20ME401)	8000/-

FACULTY RECOGNITION/ACHIEVEMENTS

SI. No.	Name of the Faculty	Details
1	Dr. Madhukara Nayak, Assistant Professor (SG.)	Reviewed one Research paper titled "Sustainability Assessment of Alternative Procurement Strategies during Supply Chain using Distruptions using System Dynamics" (Submission ID- IJENM-105981) for the Journal INDERSCIENCE on 12th October 2022.
2	Mr. Anantesha Rao K Assistant Professor (SL.Grade)	Recognised as a judge for the Project Exhibition 2022 organised by Srinivasa University Institute of Engineering and Technology, Mukka, Mangaluru on 1st July 2022.
3	Dr. Sudarshan Rao K Dean (IQAC),	Recognised as a Member of Local Inquiry Committee (LIC), Bengaluru Region for the academic Year 2022-23. Also recognised as an External Member of Board of Examiners (BOE) Meeting at NMAMIT, Nitte for the academic Year 2022-23.

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SI. No.	Name of the Faculty	Details
4	Dr. Sudarshan Rao K Dean (IQAC)	Recognised as a reviewer for the ICE Publishing Journal, Emerging Materials Research and completed 2 reviews, one on 1st February 2023 and other one on 23rd May 2023. The titles of the 2 articles are as follows, "Investigation of Failure Mechanism of dissimilar resistance spot welding of steels" and "CMT-based Wire Arc Additive Manufacturing of Inconel 625 Alloy".
5	Mr. Lingaraj K Ritti Assistant Professor (Sr.)	Enrolled as a Life Member of Indian Red cross Society, Udupi Branch on 09 September 2022.
6	Dr. Raja Yateesh Yadav Associate Professor & Head	Recognised as a judge for the paper presentation competition on "Reduce, Reuse and Recycle Plastic" organized by Environmental Club of SMVITM, Bantakal on 11 March 2023.

FACULTY PUBLICATIONS (NATIONAL/INTERNATIONAL JOURNALS/BOOK CHAPTERS/CONFERENCES)

SI. No.	Name of the Faculty	Details
1		"Characterization of Chia Seed Oil Methyl Ester as an Alternate Fuel for Diesel Engine", International Conference on Alternative Fuels and Electric Vehicles 2021 (ICAFEV 2021), Published in IOP Conf. Series: Earth and Environmental Science, Volume 1042, 15 July 2022, doi:10.1088/1755-1315/1042/1/012005.
	Mr. Manjunath S Assistant Professor (Sr.),	"Investigative Studies on Performance Behavior on an IDI Diesel Engine with a Geometrically Modified Swirl Chamber using Biodiesel Blends", in Journal of Mechanical Engineering, ISSN 1823-5514, e: ISSN 2550-164X, Volume 20, Issue 1, 15 January 2023, Scopus, Q4, https://doi.org/10.24191/jmeche.v20i1.21080, pp: 77-95.
2	Dr. Madhukara Nayak, Assistant Professor (Sr.)	Published a paper titled,"Processing, Mechanical Characterization, and Electric Discharge Machining of Stir cast and Spray Forming-Based Al-Si Alloy Reinforced with ZrO2 Particulate Composites", in Journal of Composites Science, Volume 6, issue 11: 323, 26 October 2022 https://doi.org/10.3390/jcs6110323, pp: 1-22.
		"Optimization and Prediction of Mechanical Characteristics on Vacuum Sintered Ti-6Al-4V-SiCp Composites Using Taguchi's Design of Experiments, Response Surface Methodology and Random Forest Regression", in Journal of Composites Science, Volume 6, issue 11: 339, November 2022, https://doi.org/10.3390/jcs6110339, pp: 1-17.
		"Processing and Mechanical Characterisation of Titanium Metal Matrix Composites: A Literature Review", in Journal of Composites Science, Volume 6, issue 12: 388, December 2022, https://doi.org/10.3390/jcs6120388, pp: 1-15.

SI. No.	Name of the Faculty	Details
3	Dr. Thirumaleshwara Bhat Professor	"Effect of Water Absorption on the Mechanical Properties of Alkaline Treated Bamboo and Flax Fiber Reinforced Epoxy Composites", in Trends in Sciences, Volume 19, Number 18, 15 September 2022, https://doi.org/10.48048/tis.2022.5779, pp: 1-10.
		"Optimization Production of Simarouba Biodiesel and Performance Study using Design of Experiments in CI Engine", in the YMER, International Open Access Annual Peer-Reviewed Academic Journal, ISSN: 0044-0477, Volume 22, Issue 6, June 2023, Scopus Active 2023, Care UGC Group- II Journal, pp: 1070-1087.
4	Abrasive Wear Behavior of Carbon Epoxy Composites", i Science and Technology, Volume 7, Print ISBN: 978-8' ISBN: 978-81-19102-53-2, 15 March 2023, https://doi.org/10.9734/bpi/rpst/v7/4627C, (link: https://stm.bookpi.org/RPST-V7/article/view/9949). "Significance of Performance Indicators (PI) in the Desig Study for Effective Teaching Pedagogy " in the 24th ISTE & Faculty Convention & 32nd Dr. L.S. Chandrakant Memori Accreditation & NEP 2020 for Excellence in Higher Edu held at JSS Academy of Technical Education, Bengaluru or "Design and Development of Semi-Automatic Leaf Plate the 3rd international conference on " Advances in M Mechatronics and Manufacturing", held online during 15 "Taguchi and Regression Analysis of Abrasive Wear Beha Composite" in the Virtual Section of the 18th Internat Tribology - SERBIATRIB '23 organized by the Serbian Tribology - SERBIATRIB '23 organized by the Serb	Book Chapter titled,"Taguchi and Neural Network Analysis for Predicting Abrasive Wear Behavior of Carbon Epoxy Composites", in Recent Progress in Science and Technology, Volume 7, Print ISBN: 978-81-19102-52-5, eBook ISBN: 978-81-19102-53-2, 15 March 2023, pp: 42-60.Doi: https://doi.org/10.9734/bpi/rpst/v7/4627C, (link: https://stm.bookpi.org/RPST-V7/article/view/9949).
		"Significance of Performance Indicators (PI) in the Design of Course file-Case Study for Effective Teaching Pedagogy" in the 24th ISTE Karnataka State Level Faculty Convention & 32nd Dr. L.S. Chandrakant Memorial Lecture Series on "Accreditation & NEP 2020 for Excellence in Higher Education Institutions", held at JSS Academy of Technical Education, Bengaluru on 26 November 2022.
		"Design and Development of Semi-Automatic Leaf Plate Molding Machine" in the 3rd international conference on "Advances in Materials, Mechanics, Mechatronics and Manufacturing", held online during 15 & 16 April 2023.
		"Taguchi and Regression Analysis of Abrasive Wear Behavior of Carbon Epoxy Composite" in the Virtual Section of the 18th International Conference on Tribology - SERBIATRIB '23 organized by the Serbian Tribology Society and the Faculty of Engineering, University of Kragujevac (Serbia) during 17 to 19 May 2023.

Online/Offline Courses Attended/Completed by Faculty and Staff

SI. No.	Name of the Faculty	Details
1	Dr. Raja Yateesh Yadav Associate Professor & Head	NPTEL Online Course Certification on the course "Plastic Waste Management" with a consolidated Score of 77% (Silver Badge) during the 8 weeks Course held from August-October 2022. (Roll No: NPTEL22CE72S43980114).
2	Mr. Ananth Mohan Ma ll ya Assistant Professor (Sr.)	NPTEL online course Certification for successfully completing the course "Ergonomics Workplace Analysis" with a consolidated Score of 53% during the 4 weeks Course held from July- August 2022.(Roll No: NPTEL22DE13S13670043).

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Patents Applied

i· The Project titled "A Leaf Plate Molding Machine for Producing Biodegradable Plates from Waste Leaves", is apply for getting patent rights by the Inventors Dr· Sudarshan Rao K, Mr· Chandan Nelli M K, Mr· Sheshagiri Vaikunth Pai, Mr· Prathik Ambalpady and Mr· Prathviraj on 14 June 2023· (Patent Application Number: 202341040682)

ii· The Project titled "An Automatic Tamarind and Salt Mixing Machine", is apply for getting patent rights by the Inventors Dr· Madhukara Nayak, Mr· Raviraj, Mr· Subramanya Poojary, Mr· H J Gagan and Mr· Sanath Kamath on 23 June 2023· (Patent Application Number: 202341042011)

STUDENT PAPER PRESENTATION & PUBLICATIONS IN CONFERENCE PROCEEDINGS

Final Year Students of Mechanical Engineering Department Mr. Chandan Nelli M K (4MW18ME004), Mr. Prathik Ambalpady (4MW20ME400), Mr. Prathviraj (4MW20ME401) and Mr. Sheshagiri Vaikunth Pai (4MW20ME403) have participated and presented a

paper titled, "Design and Development of Semi-Automatic Leaf Plate Molding Machine", during the Virtual Third International Conference on "Advances in Materials, Mechanics, Mechatronics and Manufacturing", held on 15 & 16 April 2023.

Online/Offline Courses Attended/Completed by Students

- i. Mr. Rathan Patkar, Final Year Student bearing USN 4MW19ME015 has awarded with NPTEL online course Certification for successfully completing the course "Introduction to Internet of Things" with a consolidated Score of 68% during the 12 Weeks Course held from July to October 2022. (Roll No: NPTEL22CS96S33980020).
- ii. Mr. Rathan Patkar, Final Year Student bearing USN 4MW19ME015 has awarded with NPTEL online course Certification for successfully completing the course "Cloud Computing" with a consolidated Score of 70% during the 12 Weeks Course held from July to October 2022. (Roll No: NPTEL22CS87S53980031).
- iii. Mr. Rathan Patkar, Final Year Student bearing USN 4MW19ME015 has awarded with NPTEL online course Certification for successfully completing the course "Air Pollution and Control" with a consolidated Score of 68% during the 12 Weeks Course held from January to April 2023. (Roll No: NPTEL23CE14S54150012).

- iv. Mr. Rathan Patkar, Final Year Student bearing USN 4MW19ME015 has awarded with NPTEL online course Certification for successfully completing the course "Basic Construction Materials" with a consolidated Score of 67% during the 12 Weeks Course held from January to April 2023.(Roll No: NPTEL23CE18S64150086).
- v. Mr. Rathan Patkar, Final Year Student bearing USN 4MW19ME015 has awarded with NPTEL online course Certification for successfully completing the course "Maintenance and Repair of Concrete Structures" with a consolidated Score of 55% during the 12 Weeks Course held from January to April 2023.(Roll No: NPTEL23CE06S34150020).
- vi. Mr. Ankith Suvarna, Third Year Student bearing USN 4MW20ME002 has awarded with NPTEL online course Certification for successfully completing the course "Mechatronics" with a consolidated score of 54% during the 8 Weeks Course held from February to April 2023.(Roll No: NPTEL23ME50S34860012).

WORKSHOPS/FDP/SEMINAR/TRAINING PROGRAM/WEBINAR ATTENDED/COMPLETED

SI. No.	Name of the Faculty	Details
	Dr. Sudarshan Rao K Dean (IQAC)	BOE Meeting (External Member) for B.Tech on the topic "Scrutiny of Semester End Examination Question Papers" in Mechanical Engineering organised by NMAMIT, Nitte on 21 November 2022.
1		Online 9 Days UGC Approved Short Term Professional Development Programme on "Implementation of NEP 2020 for University and College Teachers" obtained with "A" Grade organised by INDIRA GANDHI NATIONAL OPEN UNIVERSITY, New Delhi from 21-29 September 2022.
		Expert Session on the subject Project Economics on 20th April 2023, 3PM to 4.30 PM, under Vidyanjali Initiative through online for Civil Engineering students of Anantrao Pawar College of Engineering and Research at Parvati, Pune.
2	Dr. Raja Yateesh Yadav Associate Professor	One Week NPTEL- AICTE Online FDP on "Plastic Waste Management" commenced from August-October 2022. (Roll No: NPTEL22CE72S43980114).
3	Dr. Madhukara Nayak Assistant Professor (Sr.)	One Day Workshop on "Social Entrepreneurship, Sustainability and Rural Engagement" organised & Coordinated by MBA Department, Poorna Prajna Institute of Management, Udupi in association with Mahatma Gandhi National Council of Rural Education, Hyderabad on 12 November 2022.
	Mr. Manjunath S Assistant Professor (Sr.)	Five Days Faculty Development Program on "UTKARSH" organised by IQAC in association with ISTE Faculty Chapter of SMVITM, Bantakal on 28, 29 September 2022 & 06 to 08 October 2022.
4		Five Days Onine Faculty Development Program on "Electric Vehicle Technology" Jointly organised by Departments of Aeronautical/ Automobile/ Marine/ Mechanical Engineering, Srinivas Institute of Technology, Valachil, Mangalore from 09 to 13 January 2023.
	Mr. Ravinarayan R Rao Assistant Professor (Sr.)	One Week Online Faculty Development Program on "HYBRID ELECTRIC VEHICLES" Jointly organised by Dept. of Mechanical Engineering, GMR Institute of Technology, Rajam in association with Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada from 21 to 25 November 2022.
5		NPTEL+ Workshop Certificate during Three Days Online Workshop on " Short Term Course on Surface Engineering of Nano Materials" by Prof. Kaushik Pal, IIT, Roorkee from 8 to 10 December 2022.
		Three Day Online Faculty Development Program on "Recent Advancements in Materials and Manufacturing (RAMM)" organised by Department of Mechanical Engineering in association with IE (INDIA) at St. Joseph Engineering College, Vamanjoor, Mangaluru from 13 to 15 February 2023.
6	Mr. Lingaraj K Ritti Assistant Professor(Sr.)	Five Days Faculty Development Program on "UTKARSH" organised by IQAC in
7	Mr. Karthik V Assistant Professor	association with ISTE Faculty Chapter of SMVITM, Bantakal on 28, 29 September 2022 & 06 to 08 October 2022.

STUDENT RECOGNITION/ ACHIEVEMENTS/ PARTICIPATION

SI No.	Details
1	The Team of Final Year B.E. Mech Student Mr. Chandan Nelli M K (4MW18ME004) and Mr. Sheshagiri Vaikunth Pai (4MW20ME403) have participated in IDEATHON 2022 and bagged 1st Prize under the Theme: Waste to Wealth, organized by Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi on 10 th December 2022.
2	Mr. Gagan & Team, Final year Students of Mechanical Engineering won first place in the Volleyball tournament held in connection with Annual Sports Day of the Academic Year 2022-23.
3	Mr. Sathwik & Team, Students of Mechanical Engineering won Second place in the Basketball tournament held in connection with Annual Sports Day of the Academic Year 2022-23.
4	Mr. K N Shreesha Achar (4MW20ME004) and Team, Won First place in the event Volleyball, during the "TECH YUVA– 2K23", A National Level Techno- Cultural & Sports Fest organised by Srinivas University Institute of Engineering and Technology, Mukka, Mangalore held on 22nd and 23rd June 2023.
5	Mr. Gagan Kumar (4MW21ME005), Second Year Student of Mechanical Engineering successfully completed Three Weeks Internship on "CNC Operations and Programming" with "A+" Grade, conducted by VTU National Academy for Skill Development, Dandeli during 3rd June 2023.







SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Placed Stars of Mechanical Engineering 2023



SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

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

Accredited by NAAC with 'A' grade

Vishwothama Nagar, Bantakal - 574115, Udupi District, Karnataka. Mobile: 7483031199 | Website: www.sode-edu.in



Newsletter

Department of Mechanical Engineering



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

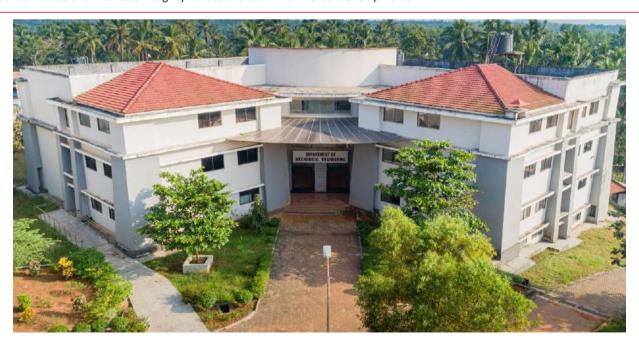
To become a center of excellence in Mechanical Engineering and contribute to technological and socio-economic developments.

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.



SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT Year: 2021-22

Newsletter

Department of Mechanical Engineering



ACTIVITIES CONDUCTED

Value added Catia Training Program

The department of Mechanical Engineering under ISTE Student Chapter had organized a training program on "CATIA software" from 12 November 2021 to 8 December 2021, total 8 days for mechanical engineering students of pre-final and final year at CAD Lab of the institution. Mr. Prashanth from EduCADD, Udupi conducted hands on sessions on Basics of drafting and modeling in CATIA software. Drafting and creating models was demonstrated to the students and they performed the same in CATIA software. 34 registered students benefited from this training program.

Webinar on "Practical Applications of FEM in Aerospace and Automotive Domain"

The department of Mechanical Engineering under ISTE Student Chapter had organized a guest lecture by Mr. Puneeth M L, Team Lead, Aeroengine Division, Safran - Snecma Aerospace, Bengaluru, on "Practical Applications of FEM in Aerospace and Automotive domain" 5th January 2022 from 2:30 PM to 4:00 PM for mechanical engineering students of pre-final and final year at seminar hall of the

institution. During the lecture, Mr. Puneeth, delivered the concepts of finite element methods and its applications in aerospace and automotive domains by citing case studies undertaken by him and his company. The lecture also helped the students to understand the importance of FEM analysis in R&D department of any company.

Celebration of National Energy Conservation Day

Department of Mechanical Engineering in association with Renewable Energy club of Shri Madhwa Vadiraja Institute of Technology and Management (SMVITM), Bantakal has celebrated National Energy Conservation Day on 14 December 2021

in the campus. In order to create awareness about the importance of conservation of energy among the students, the college has organized several events such as Model making competition and exhibition with the theme 'Renewable Energy', Poster making competition and exhibition with

the theme 'Energy Conservation' and Public speaking competition with the theme 'Green Energy'. More than hundred students have actively participated and won the prizes. Mr. Ananthesh Rao K, Assistant Professor, Department of Mechanical Engineering has coordinated the event.

Conduction of a Virtual Lab Session on "Fluid Mechanics / Machines Lab"

Department of Mechanical Engineering has conducted a Virtual Lab Session on Fluid Mechanics / Machines Lab for 13 registered 3rd Year Mechanical Engineering students on 05-02-2022. Mr. Manjunath S, Assistant Professor (Sr.), Mr. Lingaraj K Ritti, Assistant Professor (Sr.) and Dr. Raja Yateesh Yadav, Associate Professor, Dept. of Mechanical Engineering, SMVITM, Bantakal are the Resource persons for the virtual Lab sessions.



Conducted a Virtual Lab Session on "Material Testing Lab"

Department of Mechanical Engineering has conducted a Virtual Lab Session on Material Testing Lab for 7 registered 2nd Year Mechanical Engineering students on 09-03-2022. Dr. Gajanan Anne, Associate Professor, Department of Mechanical Engineering, SMVITM, Bantakal is the Resource Person for the Virtual Lab Session.

SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

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Department of Mechanical Engineering



Technical Talk on "Scope of CAE-ALTEM"

Department of Mechanical Engineering in association with Yantrika Club, SMVITM, Bantakal has conducted a Talk on "Scope of CAE- ALTEM", for 3rd Year

Five Days Faculty Development Program on "Electric Vehicle and Smart Grid"

Department of Mechanical Engineering and Electronics and Communication Engineering in association with ISTE Faculty Chapter of Shri Madhwa Vadiraja Institute of

Mechanical Engineering students on 28.04.2022. Mr. Manohar, Altem Technologies, Bengaluru are the Resource Persons for the Talk. He insisted on getting more practical exposure to such applications at designated centers

Technology and Management, Bantakal, Udupi organized a Five Days Faculty Development Program on "Electric Vehicle and Smart Grid" from 14th to 18th March 2022 in the college premises. Mr. Esakki Raja S, Sr. Application Engineer in VI solutions, Bengaluru was the where ALTEM software is installed. He suggested visiting ALTEM'S dedicated website portal for opportunities in upskilling and getting internships and placement assistance.

resource person of the five day faculty development. He appreciated the management for conducting the sessions in blended mode and highlighted the importance of training the future engineers in the Electric Vehicle Field.

Value added Program on "C- Programming"

Department of Mechanical Engineering in association with Department of Civil Engineering and Placement Cell of SMVITM, Bantakal has organized a Value added Program on C- Programming for 3rd Year Mechanical Engineering Students. Dr. Nagaraj Bhat, Associate Professor and Head, Computer Science Engineering Dept., SMVITM, Bantakal is the Resource for C Programming from 4th April to 6th April 2022. The trainers thoroughly explained and demonstrated the concepts of C programming with the help of final year students of Computer Science Engineering. A Total of 45 students participated and benefited from the Value added Program.

Gate Exam Training Session/ Awarness Talk

Department of Mechanical Engineering has conducted Gate Exam Training Session/ Awarness Talk for 2nd Year Mechanical Engineering students by Dr. Ananth Pai S, Founder & Gate

Exam Coach, Academy in Pursuit of Engineering Excellence (APEX), Mangaluru on 24 November 2021. He provided detailed insights with respect to the pattern for Gate exams, preparation required and

opportunities ahead if Gate exam is cleared. A total of 13 students participated and benefited from the Session.

A Talk on "How to Write a Technical Report"

Department of Mechanical Engineering has organised a Talk on "How to Write a Technical Report" for Final Year Mechanical Engineering Students on 09 June 2022. The Talk was delivered by Mr. Aditya Kudva S, Assistant Professor, Department of Mechanical Engineering,

SMVITM, Bantakal. The necessity of writing a technical report both in academia and industry was discussed during the session. The students interacted with the faculty and discussed certain aspects related to the topic. 28 Students attended and get valuable inputs from this talk.

SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

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Newsletter

Department of Mechanical Engineering



Value Added Program on "Python Programming"

Department of Mechanical Engineering has organized 4 days Value Added Program on "Python Programming" for Final Year Mechanical Engineering Students from 13-16 June 2022. Mr. Sharath Kumar and Ms. Sowmya S, Assistant Professors, Department of Computer science Engineering, SMVITM Bantakal are the resource persons for the Python Programming. Resource persons thoroughly explained the concepts of Python programming and stressed on its importance. 14 students were participated and benefited from this program.





Talk on "Opportunities for Mechanical Engineers in Manufacturing Sector"

Department of Mechanical Engineering in association with Training and Placement Cell of SMVITM, Bantakal organised a Talk on "Opportunities for Mechanical Engineers in Manufacturing Sector" for Mechanical Engineering Students on 28 June 2022. The talk was delivered by Mr. Nagesh Adiga, Senior HR, AMS Bengaluru. He was accompanied by his HR Team of 2 Members. Mr. Nagesh addressed the Mechanical Engineering students highlighting roles and opportunities for Mechanical Engineers in Manufacturing



Industry. He highlighted that strong basics of Basic Sciences and Core Mechanical subjects is a bare minimum necessity expected out of fresh engineering graduates along with passion towards Mechanical Engineering. He also motivated the students to explore things beyond curriculum such as take up value added courses, professional development courses, visit industries every semester, carry out internships. Also, basic knowledge of other domains would also be very handy to cope up with recent developments in the industry. 62 Students were participated and gain more knowledge about the Manufacturing Sector.



Six Days Value Added Program on CNC Milling Machine"

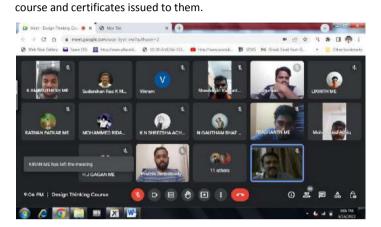
Department of Mechanical Engineering in association with the Yantrika club of SMVITM, Bantakal, Udupi had organized a Six Days Value Added Training Program on CNC Milling Machine for 4th Year Students of Mechanical Engineering from 17/05/2022 to 20 and 23 to 24 May 2022. Mr. Lingaraj K Ritti, Mr. Ananth Mohan Mallya and Mr. Shrikanth Shettigar were Resource Person for the Program. During the first half of the training program, the students were encouraged to write the CNC programs using G codes and M codes in CNC mill software. The resource persons gave an overall idea about how to write the program for the specific applications. During the second part of the training program, each student worked on the CNC milling machine and embossed nameplates of their own choice were fabricated successfully under the guidance of resource persons and Mr. Shrikanth Shettigar Lab Assistant Department of Mechanical Engineering.

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Newsletter Department of Mechanical Engineering

Certificate Course on "Introduction to Design Thinking" Internal Quality Assurance cell (IQAC) in association with Department of Mechanical Engineering, SMVITM has organised 32 hours Certificate Course on "Introduction to Design Thinking" from 1st June to 25th June 2022. Dr. Sudarshan Rao K, Dean (QA) and Professor, Dept. of Mechanical Engineering, SMVITM, Bantakal was the Resource Person for the Program. The course was conducted in the blended mode (both Online and Offline). Students performance assessed through online quiz, case study presentation and design thinking related activities conducted during the workshop. Total 28 students attended and successfully complete the







DEPARTMENT ACHIEVEMENTS

Rs. 12 Lakhs Sanctioned for the project titled "Development of Biodegradable Implant Materials"

Mechanical οf 18.02.2022 by Visvesvaraya Technological Materials" under the principal Investigation SMVITM, Bantakal

A Funding Amount Rs. 12 Lakhs Sanctioned to University, Belagavi for the project titled by Dr. Gajanan Anne, Associate Professor & Engineering on "Development of Biodegradable Implant Head, Dept. of Mechanical Engineering,

Rs. 30000/- Sanctioned for the Project titled "Fabrication and Study of Biodegradable Leaf Plates"

A Funding Amount Rs. 30,000/- Sanctioned to Dept. of Mechanical Engineering on 16.04.2022 by Karnataka Science and Technology Academy, Science

Technology Department. Govt. Karnataka, Bengaluru for the project titled "Fabrication and Study of Biodegradable Plates" under the principal

Investigation by Dr. Sudarshan Rao K, Dean (IQAC) & Professor, Dept. of Mechanical Engineering, SMVITM, Bantakal.

Mechanical Engineering Students Won "Best Project Award"

The Project Titled " Development & Analysis of Novel Atmospheric Water Generator for Obtaining Clean Drinking Water" under the Student Project Programme (SPP) for the Year 2020-21 (44 Series) guided by Dr. Raja Yateesh Yadav, Associate Professor, Department of Mechanical Engineering, SMVITM, Bantakal was adjudged as "Best Project of the Year" during the online evaluation of projects held during August



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Department of Mechanical Engineering



JOURNAL PUBLICATIONS

SI. No.	Туре	Name of the Faculty	Journal Publication
1	International	Dr. Raja Yateesh Yadav	"Erosion Wear Behavior of Glass Fiber Hybridized Flax and Sisal Fabric Hybrid Composites With Taguchi Experimental Design" in Elsevier Materials Today Proceedings, Volume 47, Part 17, 2021, https://doi.org/10.1016/j.matpr.2021.04.430, pp: 5901-5906.
2	International	Dr. Udaya Prasanna H	"Erosion Wear Behavior of Glass Fiber Hybridized Flax and Sisal Fabric Hybrid Composites With Taguchi Experimental Design" in Elsevier Materials Today Proceedings, Volume 47, Part 17, 2021, https://doi.org/10.1016/j.matpr.2021.04.430, pp: 5901-5906.
3	International	Mr. Manjunath S	"Investigation on the Performance of an IDI Engine using a Novel Dual Swirl Combustor", in Materials Today: Proceedings, ISBN: 2214-7853, November 2021, https://doi.org/10.1016/j.matpr.2021.11.090.
4	International	Dr. Gajanan Anne	"Solid Particle Erosion Behavior of Plasma Sprayed (WC-Co)/ (Cr3C2-NiCr) Coatings", in Journal of Bio- and Tribo-Corrosion, Springer Nature, ISSN: 2198-4239, Volume 8, February 2022, https://doi.org/10.1007/s40735-022-00629-5.
5	International	Dr. Gajanan Anne	"Fabrication of Mg-Zn/Al and Mg-Zn/Anodized Al Multilayered Composites by Accumulative Roll Bonding, Investigation of Corrosion Behavior" in Materials International, ISSN: 2668-5728, Volume 4, Issue 1, April 2022, https://doi.org/10.33263/ Materials41.003.
6	International	Dr. Gajanan Anne	"Surface modification of multi-directional forged biodegradable Mg-Zn alloy by ball burnishing process: Modeling and analysis using deep neural network", in Journal of Manufacturing Processes, ISSN: 1526-6125, Volume 68, Part A, August 2021, pp:423-434, https://doi.org/10.1016/j.jmapro.2021.05.049.
7	International	Mr. Manjunath S	"Performance, Emission and Exergy Analysis of an IDI Dual Swirl Combustor Diesel Engine with Blended Waste Chia Seed Oil as a Biofuel ", in International Journal of Ambient Energy, June 2022, https://doi.org/10.1080/01430750.2022.2080266, pp:1-15.

CON	CONFERENCE PAPER PRESENTATION / PUBLICATIONS - STAFF		
SI.	Details(Author/ Title of Paper/ Conference Name/Date/ Venue/ ISBN)etc.		
No			
1	Mr. Manjunth S, Assistant Professor (Sr.), Department of Mechanical Engineering, SMVITM, Bantakal has Participated and Presented a Paper Entiled "Investigation on the Performance of an IDI Engine using a Novel Dual Swirl Combustor" in International conference on Smart and Sustainable Developments in Materials, Manufacturing and Engineering (SME 2021), organised by NMAMIT, Nitte from 19-20 November 2021.		
2	Mr. Manjunth S, Assistant Professor (Sr.), Department of Mechanical Engineering, SMVITM, Bantakal has Participated and Presented a Paper Entiled "Characterization Of Chia Seed Oil Methyl Ester as an Alternate Fuel for Diesel Enginer" in Virtual International Conference on Alternative Fuels and Electric Vehicles 2021 (ICAFEV 2021), organised by Alard College of Engineering and Management, Pune in association with Accra Technical University, Accra, Ghana from 9-10 December 2021.		
3	Mr. Manjunth S, Assistant Professor (Sr.), Department of Mechanical Engineering, SMVITM, Bantakal has Participated and Presented a Paper titled "Performance and Emission Analysis of an IDI Diesel Engine with EGR" in Virtual Two Day International Conference on Recent Trends in Mechanical Engineering Sciences (RTIMES- 2022), organised by Srinivasa Institute of Technology, Valachil, Mangaluru from 10-11 June 2022.		
4	Dr. Gajanan Anne, Associate Professor & HOD, Department of Mechanical Engineering, SMVITM, Bantakal has Participated and Presented a Paper Entiled "Greener Synthesis of Mixed Metal Nano Oxides using Cyathea Nilgiriensis Holttum Plant Extract" during the 2nd International Conference On Instigating Research in Materials, Energy and Environment (ICIRMEE)-2021, Organised by Department of Chemistry, Sri Ramaswamy Memorial Easwari Engineering College, Ramapuram, Chennai from 6-7 October 2021.		

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Dr. Gajanan Anne, Associate Professor & HOD, Department of Mechanical Engineering, SMVITM, Bantakal has Participated and Presented a Paper Entiled "Investigation of Tribological Characteristics of Copper- Titanium Alloys Processed by Multi Axial Cryo Forging" during the 2nd Virtual International Tribology Research Symposium (ITRS 2021), Organised by Sri Ramaswamy Memorial Easwari Engineering College, Ramapuram, Chennai from 8-10 December 2021.

RECOGNITIONS- ACHIEVEMENTS- ACCOMPLISHMENTS- STAFF

SI.	Details (Staff Name / Recognitions- Achievements- Accomplishments etc.)
No.	
1	Mr. Lingaraj K Ritti, Assistant Professor (Sr.), Department of Mechanical Engineering is recognized as
	Reviewer for Elsevier Materials Today: Proceedings. Reviewed one paper for the publication Since September
	2021.
2	Mr. Manjunath S, Assistant Professor (Sr.), Department of Mechanical Engineering has got IAENG Membership
	in the Month of 30 August 2021 & 31 December 2021.
3	Dr. Raja Yateesh Yadav, Associate Professor, Department of Mechanical Engiineering has got IAENG
	Membership in the Month of 6 September 2021.
4	Dr. Raja Yateesh Yadav, Associate Professor, Department of Mechanical Engiineering is recognized as Reviewer
	for Elsevier Materials Today: Proceedings. Reviewed Ten papers for the publication since January 2021.
5	Dr. Raja Yateesh Yadav, Associate Professor, Department of Mechanical Englineering is recognized as Reviewer
	for Biennial International Conference on Hybrid and Electric Automotive Technologies 2021 (HEAT-2021)
6	organized by PES University, Bengaluru on 29, 30 October 2021.
6	Dr. Sudarshan Rao K, Professor, Department of Mechanical Engineering is Recognised as Organizing Committee
	member of 2nd International Conference on Science, Engineering and Management, organized by Institute For
7	Engineering Research and Publication (IFERP), held at Colombo Sri Lanka from 26 to 27 August 2021.
′	Dr. Sudarshan Rao K, Professor, Department of Mechanical Engineering is Recognised as Reviewer of papers for IEEE Bombay Section Signature Conference (IBSSC-2021), organized by IEEE Bombay Section and ABV-IIITM
	Gwalior, India from 18 to 20 November 2021.
8	Dr. Sudarshan Rao K, Professsor, Department of Mechanical Engineering is recognized as Reviewer for Elsevier
0	Materials Today: Proceedings. Reviewed Total Five Papers for the publication from 1 st July 2021 to 30.06.2022.
9	Best Paper Award is conferred to Mr. Manjunath S, Assistant Professor, Department of Mechanical
	Engineering, SMVITM, Bantakal for the conference Paper titled "Performance and Emission Analysis of an IDI
	Diesel Engine with EGR" during the Virtual Two Day International Conference on Recent Trends in Mechanical
	Engineering Sciences (RTIMES- 2022) held at Srinivasa Institute of Technology, Valachil, Mangaluru from 10-
	11 June 2022.
10	Dr. Gajanan Anne, Associate Professor & HOD, Department of Mechanical Engineering is recognized as a
	Resource Person for the Talk on Technical Paper Writng Skill during the FDP on Recent Advancements in
	Outcome Based Education and Civil Engineering Industry "PRERANA-2022" Scheduled on 7 April 2022.
11	



Dr. Madhukara Nayak, Assistant Professor (Sr.), Department of Mechanical Engineering , SMVITM, Bantakal has been Awarded with Ph.D for the thesis entitled , "An Analysis of Entrepreneurial Intention and Behaviour amongst Engineering Students in Costal Karnataka" under the guidance of Dr. Narasimha Marakala, Professor , NMAMIT, Nitte in the month of 10th March 2022.

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Department of Mechanical Engineering



ACTIVITIES ATTENDED

	/ITIES ATTENDED
SI.	Details about FDP/Workshop/Seminar/ Conference etc. Attended by the Faculty
No	
1	Mr. Aditya Kudva S, Assistant Professor (Sr.), Department of Mechanical Engineering, SMVITM, Bantakal has Participated a Six Days Faculty Development Program on "OBE and Engineering Education Research" organised by Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi from 25 September 2021 to 07 October 2021.
2	Mr. Anantesha Rao K, Assistant Professor (Sr.), Department of Mechanical Engineering, SMVITM, Bantakal has Participated a Six Days Faculty Development Program on "OBE and Engineering Education Research" organised by Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi from 25 September 2021 to 07 October 2021.
3	Mr. Ananth Mohan Mallya, Assistant Professor (Sr.), Department of Mechanical Engineering, SMVITM, Bantakal has Participated a Six Days Faculty Development Program on "OBE and Engineering Education Research" organised by Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi from 25 September 2021 to 07 October 2021.
4	Mr. Ananth Mohan Mallya, Assistant Professor (Sr.), Department of Mechanical Engineering, SMVITM, Bantakal has attended a Five Days Online Elementary FDP on "Fostering Culture of Startup, Innovation & Entrepreneurship in Academic Institutions" organized by AICTE Training and Learning(ATAL) Academy, New Delhi at STEP - HBTI, Uttar Pradesh from 20 September 2021 to 24 September 2021.
5	Mr. Ananth Mohan Mallya, Assistant Professor (Sr.), Department of Mechanical Engineering, SMVITM, Bantakal has attended a Five Days Online Elementary FDP on "Buried Energy for Conservation and Energy Management" organised by AICTE Training and Learning (ATAL) Academy, New Delhi at Bhailalbhai & Bhikhabhai Institute of Technology, Gujarat from 20 September 2021 to 24 September 2021.
6	Mr. C Srikanth Bhat, Foreman, Department of Mechanical Engineering, SMVITM, Bantakal has attended a Three Day Staff Development Program Titled "Computer Hardware Technology" organised by Dept. of Computer Science Engineering, SMVITM, Bantakal in association with ISTE Faculty Chapter, SMVITM, Bantakal from 21.4.2022 to 23.04.2022.
7	Dr. Gajanan Anne, Associate Professor, Department of Mechanical Engineering, SMVITM, Bantakal has Participated a Six Days Faculty Development Program on "OBE and Engineering Education Research" organised by Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi from 25 September 2021 to 07 October 2021.
8	Dr. Gajanan Anne, Associate Professor, Department of Mechanical Engineering, SMVITM, Bantakal has attended Five days Faculty Development Program on "Electric Vehicle and Smart Grid" jointly organized by Department of Electronics & Communication Engineering and Department of Mechanical Engineering in association with ISTE Faculty Chapter of Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi from 14th to 18th March 2022.
9	Mr. Lingaraj K Ritti, Assistant Professor (Sr.), Department of Mechanical Engineering, SMVITM, Bantakal has Participated a Six Days Faculty Development Program on "OBE and Engineering Education Research" organised by Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi from 25 September 2021 to 07 October 2021.
10	Mr. Lingaraj K Ritti, Assistant Professor (Sr.), Department of Mechanical Engineering, SMVITM, Bantakal has Attended the Online Training Program On software in COE in Visualization Engineering in association with ALTEM Technologies from 4 August to 19 August 2021.
11	Dr. Madhukara Nayak, Assistant Professor (Sr.), Department of Mechanical Engineering, SMVITM, Bantakal has Participated a Six Days Faculty Development Program on "OBE and Engineering Education Research" organised by Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi from 25 September 2021 to 07 October 2021.
12	Mr. Manjunath S, Assistant Professor (Sr.), Department of Mechanical Engineering, SMVITM, Bantakal has Participated a Six Days Faculty Development Program on "OBE and Engineering Education Research" organised by Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi from 25 September 2021 to 07 October 2021

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Department of Mechanical Engineering



13	Mr. Nagaraj Kalathooru, Lab Instructor (Sr.), Department of Mechanical Engineering, SMVITM, Bantakal has attended a Virtual Mode a Two Day Staff Skill Development Program Titled "Hands on Training on Fundamentals of Computer " organised by IQAC & Department of Science and Humanities, Sai Ram College of Engineering, Anekal, Bengaluru from 29.7.2021 to 30.07.2021.
14	Dr. Raja Yateesh Yadav, Associate Professor, Department of Mechanical Engineering, SMVITM, Bantakal has Participated a Six Days Faculty Development Program on "OBE and Engineering Education Research" organised by Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi from 25 September 2021 to 07 October 2021.
15	Dr. Raja Yateesh Yadav, Associate Professor, Department of Mechanical Engineering, SMVITM, Bantakal has participated and successfully completed Online One Week AICTE-VTU Joint Teachers Training Programme on "Universal Human Values - An Overview" Organised by VTU Human Resource Development Centre(VTU-HRDC), Centre for PG Studies, Muddenahalli, Chikkaballapur district from 02 to 06 March 2022.
16	Dr. Raja Yateesh Yadav, Associate Professor, Department of Mechanical Engineering, SMVITM, Bantakal has attended Five days Faculty Development Program on "Electric Vehicle and Smart Grid" jointly organized by Department of Electronics & Communication Engineering and Department of Mechanical Engineering in association with ISTE Faculty Chapter of Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi from 14th to 18th March 2022.
17	Mr. Ravinarayan R Rao, Assistant Professor (Sr.), Department of Mechanical Engineering, SMVITM, Bantakal has Participated a Six Days Faculty Development Program on "OBE and Engineering Education Research" organised by Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi from 25 September 2021 to 07 October 2021.
18	Dr. Sudarshan Rao K, Professor & Dean, Department of Mechanical Engineering, SMVITM, Bantakal has attended an AICTE Training and Learning (ATAL) Academy Online Elementary FDP on Patent Drafting and Filing organized by Jerusalem College of Engineering, Chennai from 14.06.2021 to 18.06.2021.
19	Dr. Sudarshan Rao K, Professor & Dean, Department of Mechanical Engineering, SMVITM, Bantakal has successfully Complete the Three Months Online Course (January to March 2021) Organised by NITTTR, Bhopal On Accreditation for Under Graduate Engineering Programs" and awarded with Swayam Online Course Certificate during the examination held on 28.08.2021 with a consolidated score of 89%.
20	Dr. Sudarshan Rao K, Professor & Dean, Department of Mechanical Engineering, SMVITM, Bantakal has attended a Five Days Online Faculty Development Program on "Design Thinking for Excellence in OBE & Digital Learning" organised by VTU-HRDC, PG Center Muddenahalli, Chikkaballapur from 29 November 2021 to 03 December 2021.
21	Dr. Sudarshan Rao K, Professor & Dean, Department of Mechanical Engineering, SMVITM, Bantakal has attended a Five Days Online AICTE-VTU Joint Training Program for Teachers On "An Overview of Teaching Techniques in Innovation & Design Thinking" organized by Birla Institute of Technology, Mesra, Ranchi, Jharkhand from 06.12.2021 to 10.12.2021.
22	Dr. Sudarshan Rao K, Professor & Dean, Department of Mechanical Engineering, SMVITM, Bantakal has Delivered a talk on "Developing Reading Habits in Students" held at Shri Madhwa Vadiraja Institute of Technology & Management, Bantakal, Udupi on 13.12.2021.
23	Dr. Sudarshan Rao K, Professor & Dean, Department of Mechanical Engineering, SMVITM, Bantakal has attended Online One Week Short Term Training Programme through ICT Mode on MATLAB in Mechanical Engineering Applications organized by NITTTR Kolkata from 21st to 25th March 2022.
24	Mr. Sudhir, Assistant Professor (Sr.), Department of Mechanical Engineering, SMVITM, Bantakal has Participated a Six Days Faculty Development Program on "OBE and Engineering Education Research" organised by Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi from 25 September 2021 to 07 October 2021.
25	Mr. Manjunath S, Assistant Professor (Sr.), Department of Mechanical Engineering, SMVITM, Bantakal has attended a Five Days Faculty Development Program on "Electric Vehicle and Smart Grid" jointly organised by Department of Electronic and Communication Engineering & Department of Mechanical Engineering, Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi from 14 to 18 March 2022.
26	Mr. Manjunath S, Assistant Professor (Sr.), Department of Mechanical Engineering, SMVITM, Bantakal has participated in One Week Online Short Term Course On " Experimental and Numerical approaches to Two Phase Heat Transfer (ENTPHT-2021) organised by Department of Mechanical Engineering, NITK, Surathkal from 27 to 31 December 2021.

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27	Mr. Lingaraj K Ritti, Assistant Professor (Sr.), Department of Mechanical Engineering, SMVITM, Bantakal has attended a Five Days Faculty Development Program on "PRERANA-2022" organised by Department of Civil Engineering, Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi from 07 to 11 April 2022.
28	Mr. Lingaraj K Ritti S, Assistant Professor (Sr.), Department of Mechanical Engineering, SMVITM, Bantakal has attended a Five Days Faculty Development Program on "Electric Vehicle and Smart Grid" jointly organised by Department of Electronic and Communication Engineering & Department of Mechanical Engineering, Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi from 14 to 18 March 2022.
29	Mr. Karthik V, Assistant Professor, Department of Mechanical Engineering, SMVITM, Bantakal has attended a Three Days Faculty Development Program on "Scientific Foundations of Health" jointly organised by Jyothy Institute of Technology, Bengaluru and Visvesvaraya Technological University, Belagavi at Jyothy Institute of Technology, Bengaluru from 09 to 11 May 2022.
30	Mr. Sudhir, Assistant Professor (Sr.), Department of Mechanical Engineering, SMVITM, Bantakal has attended a Five Days Faculty Development Program on "Electric Vehicle and Smart Grid" jointly organised by Department of Electronic and Communication Engineering & Department of Mechanical Engineering, Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi from 14 to 18 March 2022.
31	Dr. Madhukara Nayak, Assistant Professor (Sr.), Department of Mechanical Engineering, SMVITM, Bantakal has attended a Five Days Faculty Development Program on "Electric Vehicle and Smart Grid" jointly organised by Department of Electronic and Communication Engineering & Department of Mechanical Engineering, Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi from 14 to 18 March 2022.
32	Mr. Sudhir, Assistant Professor (Sr.), Department of Mechanical Engineering, SMVITM, Bantakal has participated and successfully completed One Week Online Training Program for Teachers on "An Overview of Teaching Techniques in Innovation & Design Thinking", jointly organised by AICTE and VTU, held at VTU Centre for Post Graduation Studies, Muddenahalli, Chikkaballapur from 6 to 10 December 2021.
33	Mr. Ananth Mohan Mallya, Assistant Professor (Sr.), Department of Mechanical Engineering, SMVITM, Bantakal has attended a Five Days Faculty Development Program on "Electric Vehicle and Smart Grid" jointly organised by Department of Electronic and Communication Engineering & Department of Mechanical Engineering, Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi from 14 to 18 March 2022.
34	Mr. Aditya Kudva S, Assistant Professor (Sr.), Department of Mechanical Engineering, SMVITM, Bantakal has attended a Five Days Faculty Development Program on "Electric Vehicle and Smart Grid" jointly organised by Department of Electronic and Communication Engineering & Department of Mechanical Engineering, Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi from 14 to 18 March 2022.

RECOGNITIONS- ACHIEVEMENTS- ACCOMPLISHMENTS- STUDENT

SI. No.	Details (Student Name / Recognitions- Achievements- Accomplishments etc.)	
1	The Team of Final Year B.E. Mech Student Mr. NANDANA S S (4MW18ME016) and Mr. SHOBITH HEGDE (4MW18ME024) have Participated and bagged 1st Prize in National Level Quiz Competition on "Smart Manufacturing and Industry 4.0", Organized by Central Manufacturing Technological Institute (CMTI), Bangalore held on 30 Nov 2021.	
2	The Second Year B.E. Mech Student Mr. SUDEEP N R (4MW20ME011) & Team have Participated and bagged 2nd Prize in National Level Quiz Competition on "Smart Manufacturing and Industry 4.0", organized by Central Manufacturing Technological Institute (CMTI), Bangalore held on 30 Nov 2021.	
3	The Third Year B.E. Mech Student Mr. Kiran bearing USN: 4MW19ME005 has participated and Won Bronze Medal on 29 th June 2022 during VTU Athletic Meet 2022 held at SJC Institute of Technology, Chickballapur from 27th to 30th June 2022.	
4	The Final Year Students Project entitled "Development and Characteristics of PLA/Mg-Zn Biodegradable Implant Materials Using Sol-gel Technique", by AKSHAY K RAO (4MW18ME010), SURAJ ACHARYA (4MW18ME027), TUSHAR G SHENOY (4MW18ME028) was presented in the Technical Project Exhibition (Competition cum Exhibition) held at Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi on 29-06-2022, has been recognised as the Best Project.	

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Department of Mechanical Engineering



ONLINE/ OFFLINE COURSES ATTENDED/ COMPLETED BY STUDENT

SI. No.	Details about Course Online/ Offline Completed by the Student	
1	Mr. NIKHIL SHETTY (4MW18ME017), 4th Year Mechanical Engineering Student has awarded with NPTEL online course Certification for successfully completing the course "Introduction to Industry 4.0 and industrial Internet of Things" with a consolidated Score of 67% during the 12 weeks Course held from July- October 2021. (Roll No: NPTEL21CS66S23970234)	
2	Mr. NIKHIL SHETTY (4MW18ME017), 4th Year Mechanical Engineering Student has awarded with NPTEL online course Certification for successfully completing the course "Introduction to Machine learning" with a consolidated Score of 51% during the 12 weeks Course held from July- October 2021. (Roll No: NPTEL21CS70S43970234)	
3	Mr. NIKHIL SHETTY (4MW18ME017), 4th Year Mechanical Engineering Student has awarded with NPTEL online course Certification for successfully completing the course "Introduction to Machining and Machining Fluids" with a consolidated Score of 55% during the 8 weeks Course held from January- March 2021. (Roll No. NPTEL21ME57S11950172)	
4	Mr. NIKHIL SHETTY (4MW18ME017), 4th Year Mechanical Engineering Student has awarded with NPTEL online course Certification for successfully completing the course "Introduction to Mechanical Micro Machining" with a consolidated Score of 55% during the 12 weeks Course held from January- March 2021. (Roll No: NPTEL21ME03S23980132)	

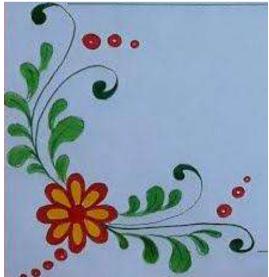


Mr. Amish Sheregar,
B.E. Final Year, Mechanical
Engineering
Placed in Infosys Ltd.,
Bengaluru



Mr. Saurav V,
B.E. Final Year,
Mechanical Engineering
Placed in Skolar,
Bengaluru





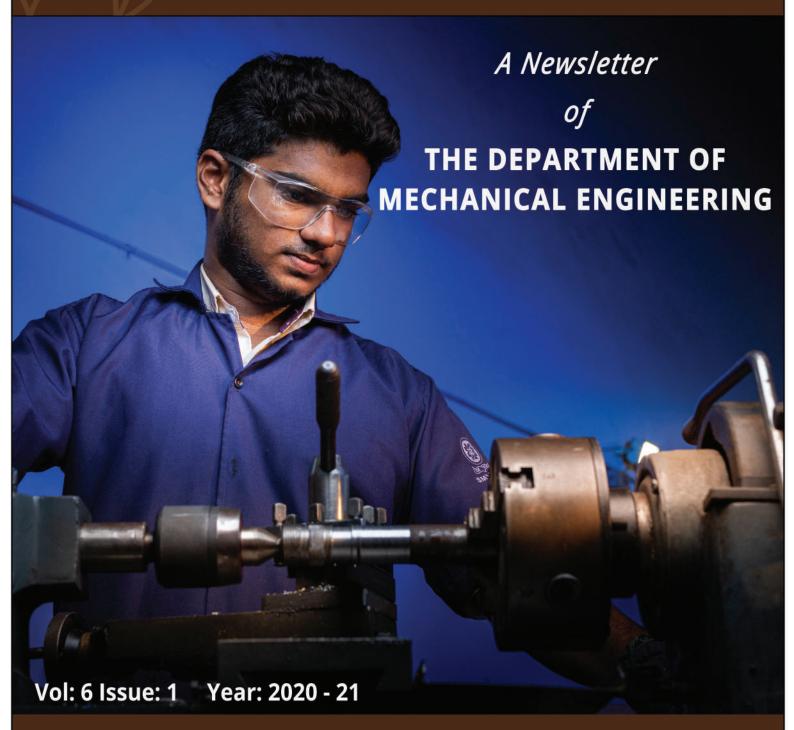
Department of Mechanical Engineering SMVITM, BANTAKAL



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DEPARTMENT OF MECHANICAL ENGINEERING



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.



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ACTIVITIES CONDUCTED

Webinar on "I AM NOTHING, BUT I CAN DO ANYTHING"

The Department of Mechanical Engineering, SMVITM, Bantakal in association with ISTE Student Chapter organized a webinar on "I am NOTHING, But, I can do ANYTHING" for interested students of Mechanical Engineering on 06th October, 2020. The webinar was from 3.00pm to 4.00pm. During the webinar, the 35 students were present, Mr. Ajay Ramdas Pai gave comprehensive explanations on the various aspects that an individual person can achieve in life. The students gained clarity on different aspects of career building, areas which need focus for overall development of an individual. Mr. Manjunath, Asst. Professors, Department of Mechanical Engineering coordinated the webinar.

Webinar on "Thermal Applications in Food Processing & Preservation"

The Department of Mechanical Engineering in association with ISTE Faculty Chapter of Shri Madhwa Vadiraja Institute of Technology and Management has organized webinar on "Thermal Applications in Food Processing & Preservation" for the benefit of faculty members and students across the state on

16 October 2020, at the institute premises, on the occasion of World Food Day.

Dr. Raja Yateesh Yadav, Associate Professor of Mechanical Engineering at SMVITM was the resource person of the webinar. In his address, the resource person explained about the importance of heat in various food processing and preservation methods. Also the speaker throws light on food additives

and preservatives.

The webinar is hosted online using Google meet application. Hundreds of participants across the state have joined this webinar online. Head of the Department of Mechanical Engineering Dr. Gajanan Anne and Coordinators of ISTE Faculty Chapter Mr. Chethan R, Manjunath S and Dr. Pavana Kumara have coordinated this webinar.

Webinar on 'CONDITION MONITORING OF MACHINES THROUGH VIBRATION MONITORING'

Webinar series on 03 December 2020 was handled by Mr. Girish Kumar, Senior Scientist of CMTI, Bengaluru. The talk was arranged on topic 'Condition monitoring of machines through vibration monitoring'. Session was started with the basics of vibration engineering.

Resource person who has rich working experience in conditioning and monitoring of machines, explained the importance of machine

conditioning to increases their lives and also to reduced cost of standby machine units. He also mentioned that today's industries are concentrating more on monitoring of machines by various methods of periodical maintenance practices and among these vibration analyses. The cost of bearing the conditioning of machines will be less than the cost of new machine required to purchase to perform required task. Students and participants were participated with keen interest and benefited with this talk. The talk was ended with tips for condition monitoring of machining and discussions.

FACULTY DEVELOPMENT PROGRAM

Department of Mechanical Engineering at Shri Madhwa Vadiraja Institute of Technology and Management (SMVITM), Bantakal, in association with ISTE Faculty Chapter has organized Five days Faculty Development Program (FDP) on "Advances in Materials and Manufacturing Engineering" from 28 December 2020 to 01 January 2021 with the objective of enhancing the knowledge of the faculty members and research scholars across the country.

The FDP was inaugurated by Dr. Thirumaleshwara Bhat, Principal of SMVITM on 28 December 2020. Hundreds of faculty members and research scholars across the country have joined the FDP as participants. Prof. S K Nath from IIT-Roorkee, Dr. Chakradhara D from IIT-Palakkad, Dr. Somashekara M A and Dr. Surya Prakash Ramesh from IIT-Dharwad, Dr. Shashi Bhushan Arya from NITK-Surathkal, Dr. Manjaiah M from NIT-Warangal, Dr. Venkateswarulu from NAL-Bengaluru, Dr. Maruti Hegde from University of North Carolina-USA, Mr. Amith Kudva from Plasmatron India Pvt Ltd-Mumbai and Dr. Gajanan Anne from SMVITM were the Resource persons for ten technical sessions. The FDP was concluded on 01 January 2020. Dr. Gajanan Anne, HOD of Mechanical Engineering and Dr. Pavana Kumara, Faculty member of Mechanical Engineering, have coordinated the FDP.

WEBINAR SERIES

The Department of Mechanical Engineering, SMVITM, Bantakal in association with ISTE Student Chapter organized a webinar series on 'Advanced Areas of Mechanical Engineering' for the benefit of interested students on various days from various eminent speakers.

Mr. Rangarao Desai, A Kannadiga and Team Leader in Robert Bosch, Ltda, Brazil was the resource person for the two days. On 19th November 2020 Mr. Desai addressed the students on the theme 'Inspiring Young Indians Through Experience'. During his talk Mr. Desai explained the way by which the weakness can be identified and can

overcome the same with a simple example. The students are motivated by the Speaker to participate in all types of activities along with their academic activities which makes them a good human and removes their fear. The session was attended by 35 participants and are found interactive throughout the session.

On 25th November 2020, speaker had another session on 'Overview of Manufacturing Process and Project Management'. The session addressed the basics of manufacturing processes by giving simple and understandable practical examples. Mr. Desai connected various day-to-day activities as examples to explain the

concepts of manufacturing process selection. He also explained various related concepts of manufacturing process cycle such as failure mode and effect analysis (FMEA). At the outset the talk enlightened students with overviews of manufacturing process with simple examples.

The session on 26th is handled by Eminent Personality Dr. Maruthi Hegde who is having rich research experience in the field of Nano particles and 3D printing. DR. Hegde handled session on 'Reimagining High-performance Polymers by targeting form and function'. The session was started with the basics of polymers and covered with its forms, classifications and applications. The resource

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person also concentrated on manufacturing of polymers for future use. The talk also gave ideas about different agencies which will provide funding for projects for the projects. The students and participants found interactive in the session and got cleared some of their queries.

The third session in webinar series on 03 December 2020 was handled by Mr. Girish Kumar, Senior Scientist of CMTI, Bengaluru. The talk was arranged on topic 'Condition monitoring of machines through vibration monitoring'. Session was started with the basics of vibration engineering. Resource person who has rich working experience in conditioning and monitoring of machines, explained the importance of machine conditioning to increases their lives and also to reduced cost of standby machine units. He also mentioned that today's industries are concentrating more on monitoring of machines by various methods of periodical maintenance practices and among these vibration analyses. The cost of bearing the conditioning of machines will be less than the cost of new machine required to purchase to perform required task. Students and participants were participated with keen interest and benefited with this talk. The talk was ended with tips for condition monitoring of machining and discussions.

The HOD of Mechanical Engineering Department Dr. Gajanan Anne and ISTE Coordinator of the department Dr. Pavana Kumara placed thanks to all resource persons and congratulated student's office bearers for making the webinar series successful one.

Two Days Workshop on "Material Testing & Quality Control Laboratory"

The Department of Mechanical Engineering, Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal successfully organized a two day Workshop on "Material Testing & Quality Control Laboratory" on 22 and 23 February 2021.

The Second year Mechanical Engineering students of Government Polytechnic, Udupi participated in the workshop. The students were enthusiastic throughout the sessions while learning various

experiments.

Mr. Kiran N Bhat, Senior Assistant Professor in the Department gave a brief introduction about the workshop. The instructors and technical staff of the department guided the students to conduct various experiments in the laboratories.

Dr. Gajanan Anne, HOD of Mechanical Engineering gave a brief introduction about the various facilities available in the department and the opportunities for the diploma holders to pursue higher education. The workshop was coordinated by Dr. Raja Yateesh Yadav, Associate Professor, in the department.



Mechanical Engineering students developed Foot Operated Wash Basin

Final year Mechanical Engineering students have developed "Foot Operated Wash Basin". The project was carried out by Rakshith N, Shreyas Poojary, Swasthik B Acharya and Vignesh Nayak under the guidance of Mr. Kiran N Bhat, Assistant Professor of Mechanical Engineering.

Considering the increase in the spreading of COVID-19 pandemic, the students of SMVITM have developed a new design of wash basin, which can be used in hotels, restaurants, hospitals, schools and colleges. The aim of this work is to avoid touching the water tap and to avoid the spread of corona virus. In this machine, one has to apply pressure on the ram, which is there at the bottom of the machine using foot. Once the pressure is applied, the water will spill out from the tap and the hand can be washed using water. Hence the direct contact between hand and water tap can be avoided. This machine does not require any electric power for its operation and completely made of mechanical components. Hence the durability and reliability of this machine is higher compared to electronic/sensor based wash basin. The flow of water can be regulated by the foot itself hence wastage of water can be avoided. Also this machine is fabricated at a very affordable cost. The management, Secretary Sri Ratnakumar, Principal Dr. Thirumaleshwara Bhat, Vice Principal Dr. Ganesh Aithal, HOD of Mechanical Engineering Dr. Sudarshan Rao K have appreciated and congratulated the team.



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Mechanical Engineering Students won 'Best Project Award'

Final year Mechanical Engineering students at Shri Madhwa Vadiraja Institute of Technology and Management (SMVITM), Bantakal have developed a technology of Modular Reversing System in Scooter for Physically Challenged. The project was carried out by Dhanush, Abhishek, Ashwin and Deepak Achar under the guidance of Mr. Ravinarayan R Rao, Senior Assistant Professor of Mechanical Engineering.

People with lower limb deformities who ride modified automatic scooters normally find it difficult to reverse these scooters into parking slots. This project has succeeded in finding and implementing a viable solution in the form of a battery operated motor. Hence this project will become very much helpful for specially abled people. This project work is sponsored by Karnataka State Council for Science and Technology (KSCST). Also, awarded with 'Best Project of the year 2020' by KSCST.

The management, Principal Dr. Thirumaleshwara Bhat, Vice-Principal Dr. Ganesh Aithal and HOD of Mechanical Engineering Dr. Sudarshan Rao K have appreciated and congratulated the team of students and guide.



JOURNAL PUBLICATIONS

SI. No.	Туре	Name of the Faculty	Journal publication
1	International	Dr. Thirumaleshwara Bhat	"An Engineering Student's Viewpoint on the Implementation of Active Learning Techniques and Modern Tools for the Teaching-Learning Process", in Journal of Critical Reviews (JCR), ISSN: 2394-5125, Volume 7, Issue 10, November 2020, pp: 3200-3207.
2	International	Dr. Thirumaleshwara Bhat	"Design and Numerical Analysis of Tool for FSP Simulation of Magnesium Alloys", in Materials Today: Proceedings,ISSN:2214-7853,https://doi.org/10.1016/j.matpr.2021.01.414, March 2, 2021.
3	International	Mr. Madhuka <mark>ra Na</mark> yak	"Determinants of Entrepreneurial Intention among Engineering Students: Application of Theory of Planned Behaviour", in International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) ISSN(P): 2249–6890, ISSN(E): 2249–8001, Volume 10, Issue 3, June 2020, pp: 8015–8024.
4	International	Mr. Ananth Mohan Mallya	"Experimental Investigation in Determining Optimum Working Temperature for a 4-stroke Air-Cooled Motorcycle Engine", in Scopus Indexed Journal of Critical Reviews, ISSN- 2394-5125, Volume 7, Issue 09, September 2020, pp: 2898 - 2905.
5	International	Mr. V Vij <mark>endra</mark> Bhat	"Comparative Study of Effect of Sisal Fibres in Powder and Short Form on the Mechanical Properties of Polypropylene",in AIP Conf. Proc. 2274, https://doi.org/10.1063/5.0022594, 5 October 2020, pp. 030014-1–030014-7.
6	International	Mr. Kishor Kumar Aroor	"An Engineering Student's Viewpoint on the Implementation of Active Learning TechniquesandModernToolsfortheTeaching-LearningProcess",inJournalofCritical Reviews (JCR), ISSN: 2394-5125, Volume 7, Issue 10, November 2020, pp: 3200-3207.
7	International	Mr. Lingaraj K Ritti	" Design and Numerical Analysis of Tool for FSP Simulation of Magnesium Alloys", in Materials Today: Proceedings, ISSN: 2214-7853,https://doi.org/10.1016/j.matpr.2021.01.414, March 2, 2021.
8	International	Dr. Sudarshan Rao K	"Dynamic Mechanical Behavior of Unfilled and Graphite filled Carbon Epoxy Composites", in IOP Conference Series: Materials Science and Engineering, Volume1126, Issue 1, March 2021, doi:10.1088/1757-899X/1126/1/012033
9	International	Mr. Madhukara Nayak	"Entrepreneurial Intention among Undergraduates-A review Paper", in International Journal of Innovative Research in Technology, Solaris Publication, Volume 7, Issue 9, ISSN: 2349-6002, February 2021

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SI. No.	Туре	Name of the Faculty	Journal publication	
10	International	Mr. Madhukara Nayak	"Significance of Personality traits on the entrepreneurial intention and Behavior of engineering students of coastal Karnataka".International Journal of Business Excellence,2021	
11	International	Dr. Gajanan Anne	Dr. Gajanan Anne "Microstructure and Mechanical Characteristics of Al-Zn-Mg-Cu Alloy Processed by Multi Directional Cryo Forging", in Materials Today: Proceedings, 24 March 2021, DOI: 10.1016/j.matpr.2021.02.709"	
12	International	Dr. Gajanan Anne	"Effect of Equal Channel Angular Pressing on Properties Evaluation of Biodegradable Mg-Zn-Mn Alloy", in Journal of Bio and Tribo Corrosion, June 2021, Volume 7, Issue 2, 7: 69. https://doi.org/10.1007/s40735-021-00506-7	
13	International	Dr. Gajanan Anne	"Producing Mg Based Multilayered Composites by Accumulative Roll Bonding: Investigate Effect of Addition of Zn and Anodization on Corrosion Behaviour, Journal of Mechanical Engineering and Sciences, 2020, ISSN:6393-640. DOI: https://doi.org/10.15282/jmes.14.1.2020.15.0500	
14	ball burnishing process: Modeling and analysis using deep		"Surface modification of multi-directional forged biodegradable Mg-Zn alloy by ball burnishing process: Modeling and analysis using deep neural network", in Journal of Manufacturing Processes, Volume 68, Part A, June 2021, pp: 423-434, https://doi.org/10.1016/j.jmapro.2021.05.049.	
15	International	Dr. Pavana Kumar	"Influence of burnishing process of tensile strength of Al7075-T6 alloy", Lecture notes Mechanical Engineering, Springer, 2021	
16	International	Dr. Raja Yateesh Yadav	"Erosion wear behavior of glass fiber hybridized flax and sisal fabric hybrid composites with taguchi experimental design" in Elsevier Materials Today Proceedings, May 2021. https://doi.org/10.1016/j.matpr.2021.04.430	

CONFERENCE PUBLICATIONS - STAFF

CON	FERENCE PUBLICATIONS - STAFF	
SI. No	Details (Title of paper/Author/ Conference Name/ Venue/ Date/ ISBN)	
1	Dr. Sudarshan Rao K , Professor, Department of Mechanical Engineering has Presented a paper titled "Effect of Fly ash Filler on Thermo-Mechanical Properties of Natural Fiber Reinforced 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 10 to 11 July 2020.	
2	Dr. Sudarshan Rao K , Professor, Department of Mechanical Engineering has Presented a paper titled "Retractable Stabilizer wheel supported bicycle," 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 10 to 11 July 2020.	
3	Dr. Sudarshan Rao K, Professor, Department of Mechanical Engineering has Presented a paper titled "Dynamic Mechanical Behavior of Unfilled and Graphite Filled Carbon Epoxy Composites" at 3rd International online Conference on Trends in Material Science and Inventive Materials (ICTMIM 2021) organized by JCT College of Engineering and Technology, Coimbatore, India, from 12 to 13 March 2021.	
4	Dr. Gajanan Anne, Associate Professor, Department of Mechanical Engineering has Presented a paper titled "Improving Functional Properties of Mg-4Zn-1sr Alloy using Cryo Ball Burnishing Technique", 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 10 to 11 July 2020.	
5	Dr. Gajanan Anne, Associate Professor, Department of Mechanical Engineering has Presented a paper titled "Influence of Multidirectional Forging on Biodegradable Mg-Zn-Mn Alloy", 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 10 to 11 July 2020.	
6	Dr. Gajanan Anne, Associate Professor, Department of Mechanical Engineering has Presented a paper titled "Multidirectional Forging of Binary Mg-Zn Alloy and Its Performance", 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 10 to 11 July 2020.	
7	Dr. Gajanan Anne, Associate Professor & HOD, Department of Mechanical Engineering has presented a Paper titled "Microstructure and Mechanical Characterization of Al-Zn-Mg-Cu alloy processed by Multi Directional Cryo Forging", in online International onference on Advances in Materials Science, Communication and Microelectronics (ICAMCM 2021) Organized by Department of Electronics and Communication Engineering, Jaipur Engineering Collage and Research Center, Jaipur, India from 19 to 20 February 2021.	
8	Dr. Raja Yateesh Yadav, Associate Professor, Department of Mechanical Engineering has presented a paper titled "Development of Solar Operated Multipurpose Portable Cutting Machine" in 1st International VirtualConference on Renewable Energy and Green Technology (ICREGT-2020) held at Department of EEE, SRM Institute of Science and Technology, Ghaziabad, Uttar Pradesh from 9 to 10 October 2020. (ISBN: 978-81-946241-5-8)	

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SI. No	Details (Title of paper/Author/ Conference Name/ Venue/ Date/ ISBN)
9	Mr. Ravinarayan R Rao, Assistant Professor(Sr.),Department of Mechanical Engineering has Presented a paper titled "Design and Development of Modular Reversing System in Scooter for Physically Challenged People", 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 10 to 11 July 2020.
10	Mr. Aditya Kudva S, Assistant Professor(Sr.),Department of Mechanical Engineering has Presented a paper titled "Influence of Multidirectional Forging on Biodegradable Mg-Zn-Mn Alloy", in International Conference on Emerging Trends in Science and ngineering (ICETSE-2020) held at Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi from 10 to 11 July 2020.
11	Mr. Aditya Kudva S, Assistant Professor(Sr.), Department of Mechanical Engineering has Presented a paper titled "Improving Functional Properties of Mg-4Zn-1sr Alloy using Cryo Ball Burnishing Technique", 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 10 to 11 July 2020.
12	Mr. Ananth Mohan Mallya, Assistant Professor(Sr.), Department of Mechanical Engineering has Presented a paper titled "Design and Fabrication of Techno-Economical Incinerator using Solar Energy," 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 10 to 11 July 2020.
13	Mr. Ananth Mohan Mallya, Assistant Professor(Sr.),Department of Mechanical Engineering has Presented a paper titled "Design and Fabrication of Solar Incinerator for Incinerating Used Sanitary Napkins and Covid Masks", at Virtual International Conference on Advanced Technologies and Research in Mechanical Engineering (VICATRME'20) held at MEA Engineering College, Malappuram, Kerala from 26 to 28 October 2020.
14	Mr. Ananth Mohan Mallya, Assistant Professor(Sr.),Department of Mechanical Engineering has Presented a paper titled "Development of seat actuated parking brake using rack and pinion", 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 10 to 11 July 2020
15	Mr. Ananth Mohan 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 10 to 11 July 2020.
16	Dr. Ganesh R Kalagi, Assistant Professor (Sr.), Department of Mechanical Engineering has Presented a paper titled "Electrical Characterizations of Sisal Reinforced Polypropylene 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 10 to 11 July 2020.
17	Dr. Ganesh R Kalagi, Assistant Professor (Sr.), Department of Mechanical Engineering has Presented a paper titled "Smart Hybrid Energy Water Pumping system for Agriculture Irrigation", 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 10 to 11 July 2020.
18	Dr. Ganesh R Kalagi, Assistant Professor (Sr.),Department of Mechanical Engineering has Presented a paper titled "Erosion Wear behavior of Glass Fiber hybridized Flax and Sisal Fabric Hybrid Composites with Taguchi Experimental Design" in 1st International Virtual Conference on Advancements in Nanotechnology (AINT 2020), held at Kingston Group of Institutions, Vellore, Tamilnadu from 11 to 12 September 2020.
19	Dr. Ganesh R Kalagi, Assistant Professor (Sr.), Department of Mechanical Engineering has Presented a paper titled "Impact of COVID-19 Pandemic on the Performance Level of Students with respect to the Project Works assigned during the final year of their Studies" in MAIMS International Conference (MIC 2020) held at Delhi from 03 to 04 December 2020.
20	Mr. Kiran N Bhat, Assistant Professor(Sr.),Department of Mechanical Engineering has Presented a paper titled "The Evaluation of Mechanical Properties of Bamboo and Banana Fibers 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 10 to 11 July 2020.
21	Mr. Kish <mark>or Kum</mark> ar Aroor, As <mark>sistan</mark> t Professor(Sr.),Department of Mechanical Engineering has Pr <mark>esented</mark> a paper titled "An Engineering Students' View point on Active learning Techniques", 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 10 to 11 July 2020."
22	Mr. Madhukara 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 10 to 11 July 2020.
23	Mr. Lingaraj K Ritti , Assistant Professor (Sr.), Department of Mechanical Engineering Presented a Paper titled "Design and Numerical Analysis of FSP Tool and FSP Simulation for Magnesium Alloys" at International Conference on Smart and Sustainable Developments in Materials, Manufacturing and Energy Engineering (SME-2020) organised by NMAM Institute of Technology, Nitte from 22 to 23 December 2020.

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SI. No	Details (Title of paper/Author/ Conference Name/ Venue/ Date/ ISBN)
24	Mr. Anantesha Rao K, Assistant Professor (Sr.), Department of Mechanical Engineering Presented a Paper titled "Thermal Analysis of Solar Cooker with Packed Pebble Bed Thermal Storage System for Late Evening Cooking" in Virtual International Conference on Advanced Technologies and Research in Mechanical Engineering, (VICATRME – 20) held at MEA Engineering College, Kerala, from 26-28 October 2020 (ISBN: 978-93-5406-356-5)
25	Mr. Madhukara Nayak, Assistant Professor(Sr.), Department of Mechanical Engineering has Presented a paper titled "Understanding Entrepreneurial Intention Among Final Year Engineering Students In Coastal Karnataka Region" 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 10 to 11 July 2020.
26	Mr. Ka <mark>rthik V</mark> , Assistant Professor, Department of Mechanical Engineering has Presented a paper titled "Fabrication of Raw Cashew Nut Destoner" 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 10 to 11 July 2020.
27	Mr. Karthik V, Assistant Professor,Department of Mechanical Engineering has Presented a paper titled "Development of Wet Food Waste Converter for Clean India Mission" 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 10 to 11 July 2020.
28	Mr. Lingaraj K Ritti, Assistant Professor(Sr.),Department of Mechanical Engineering has Presented a paper titled "Finite Element Analysis of Friction Stir Processing" 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 10 to 11 July 2020.

CONFERENCE PUBLICATIONS - STUDENTS

SI. No	Details (Title of paper/Author/ Conference Name/ Venue/ Date/ ISBN)	Co-Author
1	Mr. VINAY DESAI, Department of Mechanical Engineering has presented a paper titled "Development of Solar Operated Multipurpose Portable Cutting Machine" in 1st International VirtualConference on Renewable Energy and Green Technology (ICREGT-2020) held at Department of EEE, SRM Institute of Science and Technology, Ghaziabad, Uttar Pradesh from 9 to 10 October 2020. (ISBN: 978-81-946241-5-8)	Dr. Raja Yateesh Yadav
2	Mr. ANIRUDH RAO, Department of Mechanical Engineering has Presented a paper titled "Improving Functional Properties of Mg-4Zn-1sr Alloy using Cryo Ball Burnishing Technique", 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 10 to 11 July 2020.	Mr. Aditya Kudva , Dr. Gajanan Anne
3	Mr. AKASHRAJ, Mr. CHIRAG NAYAK, Mr. KOTIAN RAKSITH SADANANDA, Department of Mechanical Engineering have Presented a paper titled "Improving Functional Properties of MG-4Zn-1Sr alloy using Cryo Ball Burnishing Technique", 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 10 to 11 July 2020.	Mr. Aditya Kudva , Dr. Gajanan Anne
4	Mr. PRAJATH P SHERIGAR, Mr. PRERAN P SHETTY, Mr. SANATH KUMAR B, Mr. SUSHAN P POOJARY, Department of Mechanical Engineering have Presented a paper titled "Development of seat actuated parking brake using rack and pinion", 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 10 to 11 July 2020.	Mr. Ananth Mohan Mallya
5	Mr.RAJESH K S, Mr. RAKSHITH SHETTY R, Mr. S MANOJ, Mr. SHREYAS, Department of Mechanical Engineering have Presented a paper titled "Design and Fabrication of Techno-Economical Incinerator using Solar Energy," 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 10 to 11 July 2020.	Mr. Ananth Mohan Mallya
6	Mr. B SHANKAR SHENOY, Mr. BHARATH KUMAR, Mr. CHINMAYA R NAIRY, Mr. GIRISH K B, Department of Mechanical Engineering have Presented a paper titled "Understanding Entrepreneurial Intention Among Final Year Engineering Students In Coastal Karnataka Region" 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 10 to 11 July 2020.	Mr. Madhukara Nayak

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SI. No	Details (Title of paper/Author/ Conference Name/ Venue/ Date/ ISBN)	Co-Author
7	Mr. AAFAQUE A SIDDIQUE, Mr. KARTHIK S, Mr. MANOJ MOOLYA, Mr. NIRANJAN, Department of Mechanical Engineering have Presented a paper titled "Influence of Multidirectional Forging on Biodegradable Mg-Zn-Mn Alloy", 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 10 to 11 July 2020.	Dr. Gajanan Anne
8	Mr. PRATHIK CHANDRAKANTH SHENOY, Mr. SHARATH KUMAR E, Mr. SRINIDHI UDUPA A, Mr. ABDUL AHAD, Department of Mechanical Engineering have Presented a paper titled "Hybrid Energy Water Pumping System for Agriculture Irrigation", 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 10 to 11 July 2020.	Dr. Ganesh R Kalagi
9	Mr. ADARSH ANAND, Mr. GURUDEEP K P, Mr. MOHAMMED RAYIF, Department of Mechanical Engineering have Presented a paper titled "Fabrication of Raw Cashew Nut Destoner" 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 10 to 11 July 2020.	Mr. Karthik V
10	Mr. FARDIN AHAMED, Mr. MOHAMMAD ABRAR, Mr. MOHAMMAD FAHIM, Mr. MOHAMMED AFFAN, Department of Mechanical Engineering have Presented a paper titled "Development of Wet Food Waste Converter for Clean India Mission" 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 10 to 11 July 2020.	Mr. Karthik V
11	Mr. SACHINDRA SERIGAR, Mr. SAFWAN AHAMED, Mr. SANNITH, Mr. VIJETH KUMAR, Department of Mechanical Engineering have Presented a paper titled "The Evaluation of Mechanical Properties of Bamboo and Banana Fibers 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 10 to 11 July 2020.	Mr. Kiran N Bhat
12	Mr. ABHISHEK, Mr. ASHWIN M, Mr. DEEPAK ACHAR, Mr. DHANUSH, Department of Mechanical Engineering have Presented a paper titled "Design and Development of Modular Reversing System in Scooter for Physically Challenged People", 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 10 to 11 July 2020.	Mr. Ravinarayan R Rao
13	Mr. ABDUL MUSAFIR, Mr. AMITH, Mr. GOVINDRAJ TANTRI, Mr. PAVAN KUMAR P, Department of Mechanical Engineering have Presented a paper titled "Finite Element Analysis of Friction Stir Processing" 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 10 to 11 July 2020.	Mr. Lingaraj K Ritti

ACTIVITIES ATTENDED

 il. Io	Details about FDP/Workshop/Seminar/ Conference etc. Attended by the Faculty
1	Mr. Ravinarayan R Rao, Assistant Professor (Sr.), Department of Mechanical Engineering has attended AICTE Sponsored One Week ATAL Faculty Development program on "Micro Electro-Mechanical Systems" Depratment of Mechanical Engineering , Bharatiya Vidya Bhavan's Sardar Patel College Of Engineering, Mumbai from 23 to 27 November 2020.
2	Mr. Kiran N Bhat, Assistant Professor(Sr.), Department of Mechanical Engineering has attended a Five Day Online FDP on "3D Printing and Design" organized by AICTE Training and Learning (ATAL) from 2 to 6 November 2020
3	Mr. Aditya Kudva S, Assistant Professor (Sr.), Department of Mechanical Engineering has attended a Five Day Online Faculty Development Program on "Cyber Physical Production Systems", organized by ATAL Academy at National Institute of Technology Andhra Pradesh from 21 to 25 September 2020.
4	Mr. Anantesha Rao K , Assistant Professor(Sr.), Department of Mechanical Engineering has Attended a Five Day online Faculty Development Program on "Energy Engineering" organized by Shri Mata vaishno Devi University, katra, Jammu & Kashmir from 21 to 25 September 2020.

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SI. No	Details about FDP/Workshop/Seminar/ Conference etc. Attended by the Faculty
5	Mr. Anantesha Rao K , Assistant Professor(Sr.), Department of Mechanical Engineering has Attended a Five Day online Faculty Development Program on "Energy Engineering" organized by NetajiSubhas University of Technology, Dwarka, New Delhi from 5 to 9 October 2020.
6	Mr. Kiran N Bhat, Assistant Professor (Sr.), Department of Mechanical Engineering has attended a Three Day Faculty Development Program on "Desktop Publishing Tools" organized by Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal from 7 to 9 July 2020.
7	Mr. Ki <mark>ran </mark> N Bhat, Assistant Professor(Sr.), Department of Mechanical Engineering has attended One week Online Faculty Development Program on "Insights on Writing Research Proposals and Funding Opporunities" organi <mark>sed by SJEC, Mangalore from 20 to 24 July 2020.</mark>
8	Mr. Kiran N Bhat, Assistant Professor (Sr.), Department of Mechanical Engineering has attended a One Day Online FDP On "Interfaces in EPC Projects" Organized by Suvidya Institute of Technology (SIT), Mumbai on 24 October 2020.
9	Mr. Madhukara Nayak, Assistant Professor (Sr.), Department of Mechanical Engineering has attended a Five Day Online Faculty Development Program on "Universal Human Values for DEEKSHARAMBH (Student Induction Program), organized by NIT Patna from 21 - 25 September 2020.
10	Mr. Sudhir, Assistant Professor (Sr.), Department of Mechanical Engineering has attended a Five Day Online Faculty Development Program on "Design Thinking", organized by ATAL Academy at Vellore Institute of Technology, Vellore, Tamilnadu from 14 -18 September 2020.
11	Mr. Sudhir, Assistant Professor (Sr.), Dep <mark>artme</mark> nt of Mechanical Engineering has attende <mark>d a Five Day O</mark> nline Faculty Development Program on "Systems Engineering", organized by ATAL Academy at Maulana Azad National Institute of Technology, Bhopal from 28.09.2020 to 02.10.2020.
12	Mr. Sudhir, Assistant Professor (Sr.), Department of Mechanical Engineering has attended a Three Day Faculty Development Program on "Desktop Publishing Tools" organized by Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal from 7 to 9 July 2020.
13	Dr. Sudarshan Rao K, Professor, Department of Mechanical Engineering has attended one week STTP on "Recent Trends & Challenges for New Product Development" organized by The Oxford College of Engineering, Bengaluru from 12.10.2020 to 17.10.2020.
14	Dr. Sudarshan Rao K, Professor, Department of Mechanical Engineering has attended 5 Day AICTE Training and Learning (ATAL) online FDP on "3D Printing and Design" organized by Indian Institute of Information Technology, Design and Manudacturing, Kurnool, Andhra Pradesh from 19 to 23 October 2020.
15	Dr. Gajanan Anne, Associate Professor, Department of Mechanical Engineering has attended One week online Faculty Development Program on "Insights on Writing Research Proposals and Funding opportunities" organised by SJEC, Mangalore from 20 to 24 July 2020.
16	Dr. Sudarshan Rao K, Professor, Department of Mechanical Engineering has attended a one day "Awareness Webinar on Outcome Based Education and Accreditation (OBE&A)" organized by National Board of Accreditation, New Delhi in association with Jawaharlal Nehru Technological University, Hyderabad on 25 November 2020.
17	Dr. <mark>Gaj</mark> anan Anne, Ass <mark>ociate</mark> Professor, Department of M <mark>echanical</mark> Engineering has attended Five Days online Faculty Development Program on "Teaching and Learning of Advances in Manufacturing Technologies", organized by Dept of Mechanical Engineering, NIT Warangal from 30 November to 4 December 2020.
18	Dr. Raja Yateesh Yadav, Associate Professor, Department of Mechanical Engineering has attended a One Week Faculty Development Program on "Basic Concepts in Turbo Machinery and its Applications" organised by Department of Mechanical Engineering, The National Institute of Engineering, Mysuru from 24 to 28 August 2020.
19	Dr. Raja Yateesh Yadav, Associate Professor, Department of Mechanical Engineering has attended a One Week Faculty Development Program on "Sustainable Energy Solutions in Solar Energy Applications" organised by Department of Mechanical Engineering, Mangalore Institute of Technology and Engineering, Moodabidri from 23 to 27 November 2020.
20	Dr. Raja Yateesh Yadav, Associate Professor, Department of Mechanical Engineering was attended AICTE-ISTE approved online Orientation/Refresher Programme on "Thermal Engineering" organized by Kalpataru Institute of Technology, Tiptur, Tumkur, Karnataka from 17th February 2021 to 23rd February 2021.
21	Dr. Ganesh R Kalagi, Assistant Professor (Sr.), Department of Mechanical Engineering has attended a 5 days Faculty Development Program on "Recent Trends in Fluid Dynamics" organised by Sapthagiri College of Engineering, Bengaluru from 20 to 24 July 2020.

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SI. No	Details about FDP/Workshop/Seminar/ Conference etc. Attended by the Faculty
22	Mr. Aditya Kudva S, Assistant Professor(Sr.), Department of Mechanical Engineering has attended One week online Faculty Development Program on "Insights on Writing Research Proposals and Funding opporunities" organised by SJEC, Mangalore from 20 to 24 July 2020.
23	Mr. Sudhir, Assistant Professor(Sr.), Department of Mechanical Engineering has attended One week online Faculty Development Program on "Insights on Writing Research Proposals and Funding opporunities" organised by SJEC, Mangalore from 20 to 24 July 2020.
24	Dr. Sudarshan Rao K, Professor, Department of Mechanical Engineering has attended a One week AICTE Sponsored (AQIS) Short Term Training Programme on "Outcome Based Education for Technical Institutions- Phase II: Outcome Based Education & Autonomy" conducted by Rajgiri School of Engineering & Technology, Kochi from 16 to 21 November 2020.
25	Mr. Ravinarayan R Rao, Assistant Professor(Sr.), Department of Mechanical Engineering has attended a One week AICTE Sponsored (AQIS) Short Term Training Programme on "Outcome Based Education for Technical Institutions- Phase II: Outcome Based Education & Autonomy" conducted by Rajgiri School of Engineering & Technology, Kochi from 16 to 21 November 2020.
26	Mr. Ananth Mohan Mallya, Assistant Professor(Sr.), Department of Mechanical Engineering has attended a One week AICTE Sponsored Short Term Training Programme on "Recent Trends & Challenges for New Product Development" organised by department of Automobile Engineering, The Oxford College of Engineering, Bangalore from 12 to 17 October 2020.
27	Mr. Sudhir, Assistant Professor(Sr.), Department of Mechanical Engineering has attended a One week AICTE Sponsored Short Term Training Programme on "Recent Trends & Challenges for New Product Development" organised by department of Automobile Engineering, The Oxford College of Engineering, Bangalore from 12 to 17 October 2020.
28	Dr. Raja Yateesh Yadav, Associate Professor, Department of Mechanical Engineering has attended a Webinar on "Ozone layer depletion-the current scenario" Organized by the Department of Chemistry in association with ISTE Faculty Chapter, Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi on 16 September 2020.
29	Mr. Ravinarayan R Rao, Assistant Professor(Sr.), Department of Mechanical Engineering has Attended a talk on "Commercial Prospects of Value Added Medicinal Plants" Organized by the Department of Chemistry in association with ISTE Faculty chapter, SMVITM, Bantakal on 11 October 2020.
30	Mr. Ravinarayan R Rao, Assistant Professor(Sr.), Department of Mechanical Engineering has Attended a Webinar titled "Thermal Applications in Food Processing & Preservation" organized by Department of Mechanical Engineering, SMVITM, Bantakal in association with ISTE Faculty chapter on the occasion of World Food Day.
31	Dr. Raja Yateesh Yadav, Associate Professor, Department of Mechanical Engineering has attended a Webinar on "Commercial Prospects of Value Added Medicinal Plants" Organized by the Department of Chemistry in association with ISTE Faculty chapter, Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi on 10 November 2020.
32	Mr. Anantesha Rao K , Assistant Professor(Sr.), Department of Mechanical Engineering has Attended a Oneday online Webinar on "Applied Thermodynamics, Heat Transfer, Refrigeration & Airconditioning using FLOWNEX Simulation Software" organized by Indiasoft Technologies (P)Ltd., Pune on 14 October 2020.
33	Mr. Ananth Mohan Mallya, Assistant Professor(Sr.), Department of Mechanical Engineering has Attended a talk on "Commercial Prospects of Value Added Medicinal Plants" Organized by the Department of Chemistry in association with ISTE Faculty chapter, SMVITM, Bantakal on 11 October 2020.
34	Mr. Ananth Mohan Mallya, Assistant Professor(Sr.), Department of Mechanical Engineering has Attended a talk on "Ozone Layer Depletion-the Current Scenario" Organized by the Department of Chemistry in association with ISTE Faculty chapter, Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi on 16 September 2020.
35	Mr. Ananth Mohan Mallya, Assistant Professor(Sr.), Department of Mechanical Engineering has Attended a Webinar titled "Thermal Applications in Food Processing & Preservation" organized by Department of Mechanical Engineering, SMVITM, Bantakal in association with ISTE Faculty chapter on the occasion of World Food Day on 16 October 2020.
36	Mr. Kiran N Bhat, Assistant Professor(Sr.), Department of Mechanical Engineering has Attended a talk on ""Commercial Prospects of Value Added Medicinal Plants" Organized by the Department of Chemistry in association with ISTE Faculty chapter, SMVITM, Bantakal on 11 October 2020.
37	Mr. Kiran N Bhat, Assistant Professor(Sr.), Department of Mechanical Engineering has Attended a Webinar on "I am nothing, but I can do anything" organized by Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal on 6 October 2020.

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SI. No	Details about FDP/Workshop/Seminar/ Conference etc. Attended by the Faculty
38	Mr. Kiran N Bhat, Assistant Professor (Sr.), Department of Mechan <mark>ical E</mark> ngineering has attended a One Day Online Webinar on "Making Slums Viable" Organized by Beary's Insitute of Technology, Mangaluru on 16 July 2020.
39	Mr. Kiran N Bhat, Assistant Professor(Sr.), Department of Mechanical Engineering has Attended a talk on "Ozone Layer Depletion-the Current Scenario" Organized by the Department of Chemistry in association with ISTE Faculty Chapter, Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi on 16 September 2020.
40	Mr. K <mark>iran</mark> N Bhat, Assistant Professo <mark>r (Sr.), Department of</mark> Mechanical Engineering has attended a One Day <mark>Online</mark> Webinar on "Towards a better <mark>Education Duri</mark> ng and after Covid 19", Organized by Beary's Institu <mark>te of</mark> Technology, Mangaluru on 30 October 2020.
41	Mr. Kishor Kumar Aroor, Assistant Professor(Sr.), Department of Mechanical Engineering has Attended a talk on "Commercial Prospects of Value Added Medicinal Plants" Organized by the Department of Chemistry in association with ISTE Faculty chapter, SMVITM, Bantakal on 11 October 2020.
42	Dr. Raja Yateesh Yadav, Associate Professor, Department of Mechanical Engineering has attended a Webinar Series (4 Sessions) on "Advanced Areas of Mechanical Engineering", organized by the Department of Mechanical Engineering, SMVITM, Bantakal from 19 November 2020 to 3 December 2020 (19, 25, 26 November & 3 December 2020).
43	Mr. Ravinarayan R Rao, Assistant Professor(Sr.), Department of Mechanical Engineering has attended a Webinar Series (4 Sessions) on "Advanced Areas of Mechanical Engineering", organized by the Department of Mechanical Engineering, SMVITM, Bantakal from 19 November 2020 to 3 December 2020 (19, 25, 26 November & 3 December 2020).
44	Mr. Aditya Kudva S, Assistant Professor(Sr.), Department of Mechanical Engineering has attended a Webinar Series (4 Sessions) on "Advanced Areas of Mechanical Engineering", organized by the Department of Mechanical Engineering, SMVITM, Bantakal from 19 November 2020 to 3 December 2020 (19, 25, 26 November & 3 December 2020).
45	Mr. Kiran N Bhat, Assistant Professor(Sr.), Department of Mechanical Engineering has attended a Webinar Series (4 Sessions) on "Advanced Areas of Mechanical Engineering", organized by the Department of Mechanical Engineering, SMVITM, Bantakal from 19 November 2020 to 3 December 2020 (19,25,26 November & 3 December 2020).
46	Dr. Gajanan Anne, Associate Professor, Department of Mechanical Engineering has attended a Webinar Series (4 Sessions) on "Advanced Areas of Mechanical Engineering", organized by the Department of Mechanical Engineering, SMVITM, Bantakal from 19 November 2020 to 3 December 2020 (19, 25, 26 November & 3 December 2020).
47	Dr. Sudarshan Rao K, Professor, Department of Mechanical Engineering has attended a Online workshop on Universal Human Value on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education(AICTE) from 24 to 28 August 2020.
48	Dr. Raja Yateesh Yadav, Associate Professor, Department of Mechanical Engineering has attended a Four Days hands-on wo <mark>rksho</mark> p on "LaTex" organized by ISTE Faculty Chapter of Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal from 1 to 6 July 2020.
49	Mr. Ravinarayan R Rao, Assistant Professor (Sr.), Department of Mechanical Engineering has attended a Four Days hands-on workshop on "LaTex" organized by ISTE Faculty Chapter of Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal from 1 to 6 July 2020.
50	Mr. Ravinarayan R Rao, Assistant Professor(Sr.), Department of Mechanical Engineering has Successfully Completed 30 hours of Online Course on "Basics of Strategic Management- Its relevance in the Present Situation" organized by the Internal Quality Assurance Cell of SMVITM, Bantakal from 01.07.2020 to 01.09.2020.
51	Mr. Aditya Kudva S, Assistant Professor(Sr.), Department of Mechanical Engineering has attended a Four Days hands-on workshop on "LaTex" organized by ISTE Faculty Chapter of Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi from 1 to 6 July 2020.
52	Mr. Aditya Kudva S, Assistant Professor(Sr.), Department of Mechanical Engineering has Successfully Completed 30 hours of Online Course on "Basics of Strategic Management- Its relevance in the Present Situation" organized by the Internal Quality Assurance Cell of SMVITM, Bantakal from 01.07.2020 to 01.09.2020.
53	Mr. Anantesha Rao K , Assistant Professor(Sr.), Department of Mechanical Engineering has Attended a One day online Workshop on "Scientific Writing and Reference Management Using Mendeley" organized by ManavRachana International Institute of Research and Studies, Faridabad on 10 October 2020.

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SI. No	Details about FDP/Workshop/Seminar/ Conference etc. Attended by the Faculty
54	Mr. Anantesha Rao K , Assistant Professor(Sr.), Department of <mark>Mechanic</mark> al Engineering has Successfully Completed 30 hours of Online Course on "Basics of Strategic Management- Its relevance in the Present Situation" organized by the Internal Quality Assurance Cell of SMVITM, Bantakal from 01.07.2020 to 01.09.2020.
55	Mr. Ananth Mohan Mallya, Assistant Professor(Sr.), Department of Mechanical Engineering has Successfully completed 30 hours of Online Course on "Basics of Strategic Management- Its relevance in the Present Situation" organized by the Internal Quality Assurance Cell of SMVITM, Bantakal from 01.07.2020 to 01.09.2020.
56	Dr. Raja Yateesh Yadav, Associate Professor, Department of Mechanical Engineering has attended a One day Hands on workshop Session on "Use of online Tool (mentimeter) in Active Learning Techniques" organized by Internal Quality Assessment Cell of Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal on 02.12.2020.
57	Mr. Ravinarayan R Rao, Assistant Professor(Sr.), Department of Mechanical Engineering has attended a One day Hands on workshop Session on "Use of online Tool (mentimeter) in Active Learning Techniques" organized by Internal Quality Assessment Cell of Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal on 02.12.2020.
58	Mr. Aditya Kudva S, Assistant Professor(Sr.), Department of Mechanical Engineering has attended a One day Hands on workshop Session on "Use of online Tool (mentimeter) in Active Learning Techniques" organized by Internal Quality Assessment Cell of Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal on 02.12.2020.
59	Mr. Kiran N Bhat, Assistant Professor(Sr.), Department of Mechanical Engineering has Successfully Completed the 30 hours of Online Course on "Basics of Strategic Management- Its relevance in the Present Situation" organized by the Internal Quality Assurance Cell of SMVITM, Bantakal from 01.07.2020 to 01.09.2020.
60	Mr. Kishor Kumar Aroor, Assista <mark>nt Pr</mark> ofessor (Sr.), Department of Mec <mark>hanical</mark> Engineering has attended a Four Days hands-on workshop on "LaTex" organized by ISTE Faculty Chapter of Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal from 1 to 6 July 2020.
61	Mr. Madhukara Nayak, Assistant Professor(Sr.), Department of Mechanical Engineering has attended a Four Days hands-on workshop on "LaTex" organized by ISTE Faculty Chapter of Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi from 1 to 6 July 2020.
62	Mr. Madhukara Nayak, Assistant Professor(Sr.), Department of Mechanical Engineering has Successfully Completed 30 hours of Online Course on "Basics of Strategic Management- Its relevance in the Present Situation" organized by the Internal Quality Assurance Cell of SMVITM, Bantakal from 01.07.2020 to 01.09.2020.
63	Dr. Gajanan Anne, Associate Professor & HOD,Department of Mechanical Engineering has attended a One day Hands on workshop Session on "Use of online Tool (mentimeter) in Active Learning Techniques" organized by Internal Quality Assessment Cell of Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal on 02.12.2020.
64	Dr. Raja Yateesh Yadav, Associate Professor, Department of Mechanical Engineering has Successfully completed 30 hours of Online course on "Basics of Strategic Management- Its Relevance in the Present Situation" organized by the Internal Quality Assurance Cell of SMVITM, Bantakal from 01.07.2020 to 01.09.2020.
65	Mr. Kiran N Bhat, Assistant Professor(Sr.), Department of Mechanical Engineering has Attended a Workshop on "Effective use of XP-Pen in Online Teaching" organized by Internal Quality Assessment Cell , Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal on 23 October 2020.
66	Mr. Kishor Kumar Aroor, Assistant Professor(Sr.), Department of Mechanical Engineering has Successfully completed 30 hours of Online course on "Basics of Strategic Management- Its Relevance in the Present Situation" organized by the Internal Quality Assurance Cell of SMVITM, Bantakal from 01.07.2020 to 01.09.2020.
67	Mr. Sudhir, Assistant Professor (Sr.), Department of Mechanical Engineering has attended Two Weeks online Faculty Development Program on "Indian Knowledge Systems in Contemporary Education & Practices" organised by Sri Sri University, Cuttack, Odisha ""from 05.11.2020 to 19.11.2020.
68	Dr. Ganesh R Kalagi, Assistant Professor (Sr.), Department of Mechanical Engineering has attended a Five Days online Faculty Development Program on "Recent Trends in Fluid Dynamics" organised by Sapthagiri College of Engineering, Bengalurufrom 17.11.2020 to 21.11.2020.

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SI. No	Details about FDP/Workshop/Seminar/ Conference etc. Attended by the Faculty
69	Mr. Aditya Kudva S, Assistant Professor(Sr.), Department of Mec <mark>hanical</mark> Engineering has attended a Three Day Online Faculty Development Program on "Applicatio <mark>n on</mark> Composite Materials" organised by Shikshan Prasarak Mandal's Polytechnic, Kumathe, Solapur, Maharastra from 21 to 23 December 2020.
70	Mr. Aditya Kudva S, Assistant Professor(Sr.), Department of Mechanical Engineering has attended a Five Day Faculty Development Program on "Advances in Materials and Manufacturing Engineering" organised by Department of Mechanical Engineering in association with ISTE Faculty Chapter of SMVITM from 28.12.2020 to 01.01.2021.
71	Mr. Ananth Mohan Mallya, Assistant Professor(Sr.), Department of Mechanical Engineering has attended a Five Day Faculty Development Program on "Advances in Materials and Manufacturing Engineering" organ <mark>ised</mark> by Department of Mechanical Engineering in association with ISTE Faculty Chapter of SMVITM from 28.12.2020 to 01.01.2021.
72	Mr. Ananth Mohan Mallya, Assistant Professor(Sr.), Department of Mechanical Engineering has attended AICTE Training And Learning (ATAL) Academy sponsored One Week Online FDP on "Student Centered Teaching Learning Methods & Strategies in Higher Education" at Chhatrapati Shahu Institute of Business Education & Research, Kolhapur from 01 to 09 December 2021.
73	Dr. Raja Yateesh Yadav, Associate Professor, Department of Mechanical Engineering has attended a 1½ Weeks online NPTEL- AICTE Faculty Development Program on "Thermal Operations in Food Process Engineering: Theory and Application" (Course Duration: September- December 2020) on 25 December 2020 with a consolidated Score of 84%.
74	Dr. Raja Yateesh Yadav, Associate Professor, Department of Mechanical Engineering has attended a Five Day Faculty Development Program on "Advances in Materials and Manufacturing Engineering" organised by Department of Mechanical Engineering in association with ISTE Faculty Chapter of SMVITM from 28.12.2020 to 01.01.2021.
75	Dr. Sudarshan Rao K, Professor, Department of Mechanical Engineering has attended a Five Day Faculty Development Program on "Advances in Materials and Manufacturing Engineering" organised by Department of Mechanical Engineering in association with ISTE Faculty Chapter of SMVITM from 28.12.2020 to 01.01.2021.
76	Dr. Sudarshan Rao K, Professor, Department of Mechanical Engineering has attended a one week AICTE sponsored (AQIS) online Short Term Training Programme on Outcome Based Education for Technical Institutions- Phase III: Outcome Based Education & Accreditation conducted by Rajgiri School of Engineering & Technology, Kochi, Kerala from 10 to 16 December 2020.
77	Dr. Handadi Udaya Prasanna, Professor, Department of Mechanical Engineering has attended a Five Day Faculty Development Program on "Advances in Materials and Manufacturing Engineering" organised by Department of Mechanical Engineering in association with ISTE Faculty Chapter of SMVITM from 28.12.2020 to 01.01.2021.
78	Mr. Anantesha Rao K, Assistant Professor(Sr.), Department of Mechanical Engineering has attended a Five Day Faculty Development Program on "Advances in Materials and Manufacturing Engineering" organised by Department of Mechanical Engineering in association with ISTE Faculty Chapter of SMVITM from 28.12.2020 to 01.01.2021.
79	Mr. Ravinarayan R Rao, Assistant Professor(Sr.), Department of Mechanical Engineering has attended a Five Day Faculty Development Program on "Advances in Materials and Manufacturing Engineering" organised by Department of Mechanical Engineering in association with ISTE Faculty Chapter of SMVITM from 28.12.2020 to 01.01.2021.
80	Mr. Sudhir, Assistant Professor(Sr.), Department of Mechanical Engineering has attended a Five Day Faculty Development Program on "Advances in Materials and Manufacturing Engineering" organised by Department of Mechanical Engineering in association with ISTE Faculty Chapter of SMVITM from 28.12.2020 to 01.01.2021.
81	Mr. Lingaraj K Ritti, Assistant Professor(Sr.), Department of Mechanical Engineering has attended a Five Day Faculty Development Program on "Advances in Materials and Manufacturing Engineering" organised by Department of Mechanical Engineering in association with ISTE Faculty Chapter of SMVITM from 28.12.2020 to 01.01.2021.
82	Mr. V Vijendra Bhat, Assistant Professor(Sr.), Department of Mechanical Engineering has attended a Five Day Faculty Development Program on "Advances in Materials and Manufacturing Engineering" organised by Department of Mechanical Engineering in association with ISTE Faculty Chapter of SMVITM from 28.12.2020 to 01.01.2021.

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05.03.2021.

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Details about FDP/Workshop/Seminar/ Conference etc. Attended by the Faculty Dr. Ganesh R Kalagi, Assistant Professor(Sr.), Department of Mechanical Engineering has "Advances in Materials and Manufacturing Five Day Faculty Development Program on organised by Department of Mechanical Engineering in association with ISTE Faculty Chapter of SMVITM from 28.12.2020 to 01.01.2021. Madhukara Nayak, Assistant Professor(Sr.), Department of Mechanical Engineering a Five Day Faculty Development Program on "Advances in Materials and Manufacturing Engineering" organised by Department of Mechanical Engineering in association with ISTE Faculty Chapter from 28.12.2020 to 01.01.2021. S, Assistant Professor(Sr.), Department of Mechanical Engineering has attended Day Faculty Development Program on "Advances in Materials and Manufacturing Engineering" organised by 85 of Mechanical Engineering in association with ISTE Faculty Department Chapter of SMVITM 28.12.2020 to 01.01.2021. Bhat, Assistant Professor(Sr.), Department of Mechanical Engineering has attended Faculty Development Program on "Advances in Materials and Manufacturing Engineering" organised by Department of Mechanical Engineering in association with ISTE Faculty Chapter of SMVITM from 28.12.2020 to 01.01.2021 Kiran N Bhat, Assistant Professor(<mark>Sr.),</mark> Department of Mechanical Mr Engineering has attended 87 11/2 Weeks Online NPTEL- AICTE Faculty Development Program on "Advanced Mechanics" Fluid (Course Duration:September- December 2020) on 25 December 2020 with a consolidated Score of 56%. Assistant Professor, Department of Mechanical Engineering has attended Five Faculty Development Program on "Advances in Materials and Manufacturing Engineering" organised Department of Mechanical Engineering in association with ISTE Faculty Chapter SMVITM from 28.12.2020 to 01.01.2021 Professor, Department Gajanan Anne, Associate of Mechanical Engineering has attended а Three Day Online Faculty Development Program on "Application on Composite Materials" by Shikshan Prasarak Mandal's Polytechnic, Kumathe, Solapur, Maharastra from 21 to 23 December 2020. Mr. Aditya Kudva S, Assistant Professor (Sr.), Department of Mechanical Engineering has attended AICTE Training and Learning (ATAL) Academy organised Five Day Online Faculty Development Program "3D Printing and Design" held at IIT, Ropar, Punjab from 01 to 05 February 2021. Mr. Ravinarayan R Rao, Assistant Professor (Sr.), Department of Mechanical Engineering has attended AICTE Training and Learning (ATAL) Academy organised Five Day Online Faculty Development Program 91 "<mark>Stress</mark> Management" hel<mark>d at Governme</mark>nt College of Engi<mark>neerin</mark>g, Srirangam, Tamilnadu from 01 to February 2021. K, Assistant Professor (Sr.), Department of Mechanical Engineering has attended Mr. Anantesha Rao AICTE Training and Learning (ATAL) Academy organised Five Day Online Faculty Development Program on "Energy Storage" held at Gandhi Instiute of Technology and Management, Visakhapatnam, Andhra Pradesh from 01 to 05 February 2021. (Sr.), Department of Mechanical Engineering has Mr. Anantesha Rao K, Assistant Professor AICTE Training and Learning (ATAL) Academy organised Five Day Online Faculty Development Program on "Wa<mark>ste T</mark>echnology" held at National Institute of Technology, Durgapur, West Bengal from 18 January to 22 January 2021. Dr. Sudarshan Rao Professor (Sr.), Department of Mechanical Engineering has attended Online International Faculty Development Program on "Assessment & Tools" organised by SRM institute of Science and Technology, Ramapuram Campus, Chennai, Tamilnadu from 01 to 05 February 2021. K, Assistant Professor (Sr.), Department of Mechanical Engineering Rao "Research Training", a Short Term Training Program (STTP) from Online Program on 95 05.03.2021, organised by MSME-Technology Development Centre (PPDC), und<mark>er th</mark>e Ministry Small & Medium Enterprises, Government of India. Assistant Professor (Sr.), Department of Mechanical Engineering Five Days Pavana Kumara, Faculty Development Program on "Sustanability Engineering" from 22 to 26 February 2021, organised under by Canara Engineering College, Benjanapadav, Mangaluru, and Learning AICTE Training Academy Cell, New Delhi. Mr. Anantesha Rao K, Assistant Professor (Sr.), Department of Mechanical Engineering has attended 5 Days Online Faculty Development Program on "APPLICATIONS OF MAT LAB FOR MECHANICAL ENGINEERS", organised by Department of Mechanical Engineering of SJEC in association with IE(1)-SJEC Student Chapter and SJEC- Mat lab at St. Joseph Engineering College, Mangaluru from 01.03.2021 to

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STAFF ACHIEVEMENTS



Mr. Ganesh Kalagi awarded with Ph.D

Mr. Ganesh Kalagi, Assistant Professor in Mechanical Engineering Department of Shri Madhwa Vadiraja Institute of Technology & Management, Bantakal, has been awarded Ph.D. degree for his research thesis titled "Experimental Study on Mechanical Properties of Hybrid Natural Fiber Reinforced Polymer Composite Materials for Wind Turbine Blades" submitted under the guidance of Professor Dr. Rajashekar Patil, REVA University, Bengaluru. The management, Principal and staff members of SMVITM have congratulated Mr. Kalagi for being honoured with Ph.D.

Mr. Pavana Kumar awarded with Ph.D

Mr. Pavana Kumar, Assistant Professor in Mechanical Engineering Department of Shri Madhwa Vadiraja Institute of Technology & Management, Bantakal, has been awarded Ph.D. degree for his research thesis titled "Investigation on the effect on burnishing ferrous and non-ferrous materials on their surface characteristics" submitted under the guidance of Professor Dr. G K Purohit, PDA College of Engineering, Kalaburgi. The management, Principal and staff members of SMVITM have congratulated Mr. Pavana Kumar for being honoured with Ph.D award.













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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

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.

availability of modern facilities are reflected in the excellent performance of the students.

Vision

To become a center of excellence in Mechanical Engineering and contribute to technological and so-cio-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.

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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 department Mechanical Engineering 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

has organized Industrial Visit to Department 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 association with department of organized in 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

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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 gueries 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 pursing 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 zo- 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

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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, C02

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 Te<mark>chnic</mark>al 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.

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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

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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),

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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 Ecofriendly 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.

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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

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"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, Udupi 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** 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.

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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

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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
 Febrauary 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 Awarness 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

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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, Andra 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.

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on 06.06.2020.

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- 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
- 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.

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- 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.

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- 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.





DEPARTMENT OF MECHANICAL ENGINEERING



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 <mark>. Anir</mark> udh 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. F <mark>ardin</mark> Ahamed	Development Of Wet Food Waste Converter for Clean India Mission		



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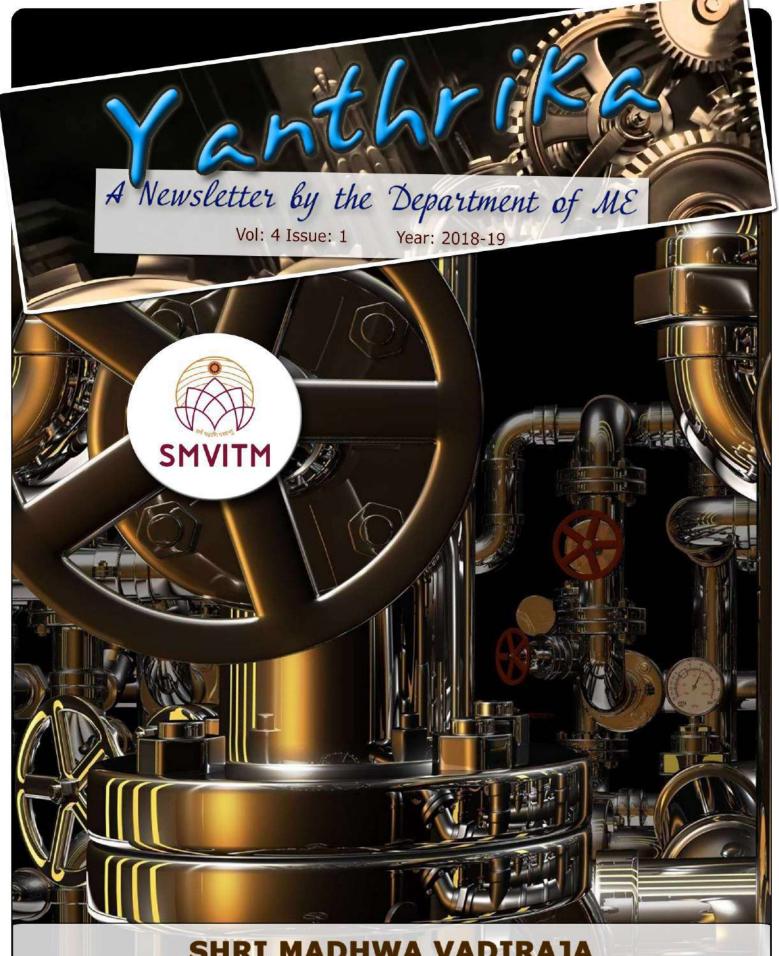


Project Sponsorship

SI. 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, (Se<mark>l. G), De</mark>pt. of Mech. Engg.



SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(A Unit of Shri Sode Vadiraja Mutt Education Trust®, Udupi)
Approved by AICTE, New Delhi; Recognized by Govt. of Karnataka and Affiliated to VTU, Belagavi
Vishwothama Nagar, Bantakal - 574115, Udupi District, Karnataka.

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 centre for "Technical Up gradation of Cashew Processing Equipments" 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

- 1. To develop state of the art facilities related to Mechanical Engineering.
- 2. To build a team of qualified and motivated faculty members.
- 3. To impart quality engineering education with ethics to students.
- 4. 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:

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

DEPARTMENTAL ACTIVITIES DURING THE CURRENT ACADEMIC YEAR

- A talk on Literature Review was delivered by Mr. Ganesh Kalagi, Assistant Professor for VII Semester students on 20th September, 2018.
- A Catia V5 Training Program of 90 hours duration was conducted by Mr. Prashanth, MSM Consultancy Services, Bengaluru for V & VII Sem students from 29th August, 2018 to 15th November, 2018.
- A course on ANSYS Workbench has been undertaken by Mr. Anantesha Rao K, Asst. Professor for VII Sem students, starting from 28th September, 2018.
- A Two day Workhop on Overview of Mechanical Engineering Laboratories was organized for students of Govt. Polytechnic, Manipal, on 27th and 29th September, 2018.
- A Two day Workshop on "CNC Programming & Hands - on Session on CNC Machining Centers" was organized for students of Kamath Institute of Technology (Polytechnic), Kundapura on 11th and 12th September, 2018.
- A one-day Industrial visit was arranged to Lamina Foundries, Nitte for III Semester students on 4th October, 2018.
- A one-day Industrial visit to Varahi Power Plant, Hosangadi, Udupi was arranged for VII Semester students on 4th October, 2018.
- A talk on "Career Opportunities in Defense

Sector" was organized in association with the institutional Training and Placement Cell and ISTE Students' Chapter on 11th October, 2018 by (Sqn Ldr) Naveen Amanna (retd.), Indian Air Force.



 A one-day Industrial visit to Udupi Power Corporation Limited, Padubidri (UPCL) was arranged for students of V Semester in two groups on 26th and 29th October, 2018 respectively.



 A Two day Workshop on "Hands on Working Experience with CNC Machining Centers" was organized in batches for final Year students on 22nd and 23rd September, 2018, 06th and 07th October, 2018 and 20th and 21st October, 2018.

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- A two day workshop on "Advanced Automobile Engineering" was organized in association with GeeksLab Technologies, New Delhi on 27th and 28th October, 2018.
- The Departmental Student Club, Yantrika, conducted a competition on "Wisdom of Mechanics" on 9th November, 2018.
- A workshop on Soft Skills was conducted by Mr Adithya Prakash, Mangaluru for 7 sem students on 12th November, 2018.

FACULTY ACCOMPLISHMENTS

JOURNAL PUBLICATIONS, BOOK CHAPTERS AND CONFERENCE PAPER PRESENTATIONS

- Mr. Anand Hegde published a paper titled, "Machinability study of manganese alloyed austempered ductile iron ", in Journal of the Brazilian Society of Mechanical Sciences and Engineering, June 2018, pp.1-9.
- "Effect of Rolling Reduction on Microstructure and Mechanical Properties Cu-3%Ti Alloy" Conference paper presented by Dr. Gajanan Annei n International Conference on Advances in Manufacturing Technology-2018 has published in Advances in Manufacturing Technology, Springer. DOI: 10.1007/978-981-13-6374-20, ISBN: 978-981-13-6374- 20, June 2018.
- Dr. Gajanan Anne attended an International Conference on Advances in Manufacturing Technology-2018 and presented a paper titled "Effect of Rolling Reduction on Microstructure and Mechanical Properties Cu-3%Ti Alloy" held at Chennai Institute of Technology, Kundrathur, Chennai from 22-23 June 2018.
- Dr. Gajanan Anne published a paper titled,
 "Influence of Heat Treatment on Cr and Fe-rich Precipitates in thermally aged Duplex Steels", in

- Emerging Materials Research, p- ISSN: 2046-0147, e- ISSN: 2046-0155, Volume 7, Issue 3, September 2018, pp. 153-159.
- Mr. Pavan Kumar published a paper titled, "Improving Surface Roughness of Burnished Components using Abrasive Particles", in International Journal of Automotive and Mechanical Engineering, October 2018, p-ISSN: 2229-8649, e- ISSN: 2180-1606, Volume 15, Issue 2, pp.5592-5606.
- Mr. Anand Hegde published a paper titled,
 "Machinability and related properties of
 austempered ductile iron: A review ", in Journal of
 Mechanical Engineering and Sciences, p- ISSN:
 2289-4659, e- ISSN: 2231- 8380, Volume 12,
 Issue 4, December 2018, pp.4180-4190.
- Mr. Anand Hegde published a paper titled,
 "Mechanical Characteristics Evaluation of Dual
 Phase and Related Hardening Techniques on AISI
 4340 Steel ", in Journal of Mechanical Engineering
 and Sciences, p- ISSN: 2289-4659, e- ISSN:
 2231- 8380, Volume 12, Issue 4, December
 2018, pp.4018-4029.
- Mr. Lingaraj K Ritti published a paper entitled "Experimental Investigation of Geothermal Peltier Air Conditioner" in Jnasangama-2018, Conference Journal, ISBN: 978-81-934215-1-2.
- Mr. Ganesh R Kalagi 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.
- Dr. Gajanan Anne published a book Chapter titled "Development, Characterization, Mechanical and Corrosion Behaviour Investigation of Multi-direction Forged Mg-Zn Alloy", in

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Magnesium Technology 2019, Springer, Book Chapter DOI.: 10.1007/978-3-030-05789-3_50, ISBN 978-3-030-05788-6, January 2019, pp.339-343.

- Dr. Gajanan Anne published a paper titled, "
 Effects of Combined Multiaxial Forging and Rolling
 Process on Microstructure, Mechanical Properties
 and Corrosion Behavior of a Cu-Ti Alloys",
 Materials Research Express, DOI:
 10.1088/2053-1591/ab0764, February 2019.
- Mr. Pavan Kumar, Assistant Professor (Sr.),
 Department of Mechanical Engineering has
 published a paper titled, " Investigations on Effect
 of Different Ball Burnishing Conditions on Surface
 Roughness Using Response Surface
 Methodology", in Journal of Modern
 Manufacturing Systems and Technology, Volume
 2, Issue 1, March 2019, pp.51-60.

SEMINARS / WORKSHOPS / FDP PARTICIPATIONS

- Mr. Raja Yateesh Yadav attended AICTE- ISTE a sponsored one Week FDP on "Recent Advances in IC Engines - Research & Issues" held at GM Institute of Technology, Davanagere from 23- 28 July 2018.
- Mr. Anantesha Rao K attended a one-week faculty development program on "Theoretical and Computational Mechanics- II" held at N.M.A.M. Institute of Technology, Nitte from July 09-14, 2018.
- Mr. Manjunath S attended a one-week faculty development programme on "Theoretical and computational Mechanics- II" held at N.M.A.M. Institute of Technology, Nitte from July 09-14, 2018.
- Mr. Aditya Kudva attended NPTEL- AICTE sponsored 1½ Week FDP on "Fundamentals of

- Surface Engineering: Mechanisms, Processes and Characterizations" from July- October 2018.
- Mr. Sudhir attended NPTEL- AICTE sponsored One Week FDP on "Marketing Management-1" from August- September 2018.
 - Mr. Kishor Kumar Aroor attended AICTE Organized 7 days "Faculty Development Program for Student Induction (FDP-SI)" held at Sri Jayachamarajendra College of Engineering (JSS University), Mysore from 9 July-15 July 2018.
- Mr. Ananth Mohan Mallya attended Two Day Faculty Development program on "Basics of CFD and Hands on Training using ANSYS Fluent" organized by Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal from 8 June -9 June 2018.
- Mr. Ananth Mohan Mallya attended One Day Workshop on "Welding for Maintenance" organized by N.M.A.M. Institute of Technology, Nitte on 28 June 2018.
- Dr. Gajanan Anne attended AICTE sponsored one-week FDP on "Manufacturing of Composite" during August-September 2018.
- Dr. Sudarshan Rao K, Mr Ravinarayan R Rao, Mr Manjunath S, Mr Raja Yateesh Yadav, Mr Ananth Mohan Mallya and Mr Karthik V attended a one-week Short Term Training Programme Through ICT Mode on "Problem Based Learning" organized by National Institute of Technical Teachers Training and Research, Kolkata held at Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi from 11 February 15 February 2019.
- Mr. V Vijendra Bhat, Mr Madhukara Nayak, Mr C Srikanth Bhat and Mr Rajashankar attended a One-week Short Term Training Programme Through ICT Mode on "Development of Laboratory Instruction and Manual" organized by

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National Institute of Technical Teachers Training and Research, Kolkata held at Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi from 4 February – 8 February 2019.

- Dr. H. Udaya Prasanna was invited as a Resource Person for "Science Association Valedictory Program" held at Poornaprajna College, Udupi on 22 March, 2019.
- Mr. Lingaraj K Ritti and Mr Karthik V were awarded "Certificate of Coordination" for successful conduction of a two day workshop on

"Autonomous Robotics" held at Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi from 29 March- 30 March 2019.

STUDENT ACCOMPLISHMENTS

 Mr. Ramith D Shetty of third year Mechanical Engineering secured the Runner Up (Below 70Kg) in Best Physique Competition at the 19th VTU Single Zone Inter collegiate Weight Lifting & Best Physique Competition 2018-19, held at Global Academy of Technology, Bangalore

NPTEL - STAFF ACCOMPLISHMENTS

September - October 2018 Courses

SI No	Name	Course(s)	
1	Sudhir	Marketing Management - 1	
2	Aditya Kudva S	Fundamentals of Surface Engineering: Mechanisms Processes and Characterizations	
3	Manjunath S	Computational Fluid Dynamics	
4	Raja Yateesh Yadav	Laws of thermodynamics	
1	Ananth Mohan Mallya	Enhancing soft skills and personality	
2	Lingaraj K Ritti	Elitationing Soft Skills and personally	
3	Ganesh Kalagi	Teaching and learning in engineering (TALE)	
4	Karthik V	Weldability of metals	
5	Narayan Nayak	Effective engineering teaching in practice	
6	Kiran N Bhat		
7	Sudarshan Rao K	Inspection and quality control in manufacturing	
8	Ravinarayan R Rao	Basics of finite element analysis – 1 Effective engineering teaching in practice	

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NPTEL - STUDENT ACCOMPLISHMENTS

September - October 2018 Courses

SI No	Name	Course(s)	
1	Sunil	Experimental Stress Analysis - An Overview Leadership	
2	Surendra	Energy conservation and waste heat recovery	
3	Dhanush V	Smart materials and intelligent system design	
4	Kiran	Welding of advanced high strength steels for automotive applications	
5	Likhitraj	Welding of advanced high strength steels for automotive applications	
6	Adbul Musafir	Principles of casting technology	
7	Deekshith D N		
8	Govindaraj Tantri		
9	Dhanush		
10	Chethan S Rao	The second secon	
11	Abhishek	Mechanics of machining	
12	Deepak Achar	Product design and innovation	
13	Waleed Shaikh	Laws of thermodynamics Refrigeration and air conditioning	

NEWSPAPER ARTICLES ABOUT THE STUDENT PROJECTS

ಬಂಟಕಲ್ಲು ಕಾಲೇಜಿನ ವಿದ್ಯಾರ್ಥಿಗಳಿಂದ 'ಕಾಳುಮೆಣಸು ವಿಭಜಕ ಯಂತ್ರ' ಅಭಿವೃದ್ಧಿ

ಮಹಾವಿದ್ಯಾಲಯದ ಎಂಟನೇ ಸೆಮಿಸ್ಟರ್ ನ ಯಾಂತ್ರಿಕ ವಿಭಾಗದ ಎದ್ಯಾರ್ಥಿಗಳಾದ ಲತೀಶ್ ಭಾಸ್ಕರ್, ರಿವನ್ ಸೆಲ್ವಿನ್ ಲೋಬೋ, ಸಾಗರ್, ಪ್ರಮೋದ್ ಎಂ. ಅಮೀನ್ ತಂಡವು 'ಕಾಳುಮಣಸು ವಿಭಜಕ ಮತ್ತು ಸಂಗ್ರಹಕ'ದ ಮೂಲ ಮಾದರಿಯನ್ನು ಸಹಾಯಕ ಪ್ರಾಧ್ಯಾಪಕ ಲಿಂಗರಾಜ್ ಮಾರ್ಗದರ್ಶನದಲ್ಲಿ ಅಭಿವೃದ್ಧಿಪಡಿಸಿರುತ್ತಾರೆ.

ಕೃಷಿಯು ಭಾರತ ದೇಶದ ಬೆನ್ನಲುವಾಗಿದ್ದು ಭಾರತದ ಕಾರ್ಯವನ್ನು ಸುಗಮಗೊಳಿಸುವ ನಿರ್ವಾಕ ಒತ್ತಡವನ್ನು ಬಳಸಿಕೊಂಡು ಆರ್ಥಿಕತೆಯ ಮೇಲೆ ತುಂಬಾ ಸಲುವಾಗಿ ವಿಧ್ಯಾರ್ಥಿಗಳು ಸಂಗ್ರಹಿಸಲಾಗುತ್ತದೆ. ವಿಧ್ಯಾರ್ಥಿಗಳ ಪರಿಣಾಮವನ್ನು ಬೀರುತ್ತದೆ. ಕಾಳು ಮೆಣಸಿನ ಕೃಷಿಯು ಭಾರತದ ಪ್ರಮುಖ ಕೃಷಿ ಉತ್ಪನ್ನವಾಗಿದ್ದು ಪ್ರಸ್ತುತ ಇರುವ ಯಂತ್ರದಲ್ಲಿ ಕಡಿಮೆ ಕೆಲಸವು ಕ್ಲಿಷ್ಟಕರವಾಗಿದೆ. ಈ ಅನಂತರ ಪುನಃ ಈ ಕಾಳುಗಳನ್ನು ವ್ಯಕ್ತಪಡಿಸಿದ್ದಾರೆ.



ಪದ್ಯಾಥ ದೆ. ಕಾಳು ಇನ್ನು ಹೆಚ್ಚಿನ ತಂತ್ರಜ್ಞಾ ಭಾರತದ ಬಳಸಿ ಬೇರ್ಪಡಿಸುವ ರವಾಗಿತ್ತು ತಂತ್ರಜ್ಞಾನವನ್ನು ಮತ್ತು ಸಂಗಹಿಸುವ ಯುನಿಟ್ ಗಳನು ಅಳವಡಿಸಬೇಕಾಗಿದೆ. ಈ ಯಂತ್ರವು

ಸಂಗ್ರಹಿಸಲಾಗುತ್ತದೆ.`ವಿದ್ಯಾರ್ಥಿಗಳ ಈ ವಿನೂತನ ಪ್ರಯತ್ನಕ್ಕೆ ಕೆಎಸ್ ಸಿಎಸ್ಟ್, ಬೆಂಗಳೂರು ರೂ. 7,500 ಪ್ರಾಯೋಜಕಶವನು ನೀಡಿದ್ದಾರೆ. ಕಾಲೇಜಿನ ಆಡಳಿತ ಪ್ರಸ್ತುತ ಇರುವ ಯಾತ್ರದಲ್ಲ ಕಾಣು ರಾಣ್ಯಜನಿಗಳು ಬೇರ್ಪಡಿಸಿ, ಮಂಡಳಿ, ಪ್ರಾಂಶುಪಾಲರು ಮತ್ತು ನಮ್ಮಗಳಿರುವುದರಿಂದ ಕಾಳು ಆವುಗಳನ್ನು ಭೂಳು ಮತ್ತು ಯಾಂತ್ರಿಕ ವಿಭಾಗ ಮುಖ್ಟಸ್ನ ಮಾಸಿನ ಬೇರ್ಪಡಿಸಿಸುವಿಕೆ ಮತ್ತು ಅನವೇಷ್ಟಿನ ಕಣಗಳಿಂದ ಬೇರ್ಪ ಡಾ. ಸುದರ್ಶನ್ ರಾವ್ ಅವರು ಸಂಗ್ರಹಿಸುವಿಕೆಯ ನಿರ್ವಹಣೆಯ ಡಿಸುತ್ತದೆ. ಬಾಲಿನಲ್ಲಿ ಬಣಗಿಸಿದ ವಿಧ್ಯಾರ್ಥಗಳ ಸಾಧನೆಗೆ ಮೆಚ್ಚುಗೆ

ಬಂಟಕಲ್ಲು ತಾಂತ್ರಿಕ ಕಾಲೇಜು ವಿದ್ಯಾರ್ಥಿಗಳ ಸಾಧನೆ ನೀರಿನ ಟ್ಯಾಂಕ್ ಸ್ವಚ್ಛಗೊಳಿಸುವ ತಂತ್ರಜ್ಞಾನ ಆವಿಷ್ಕಾರ

ಶಿರ್ವ, ಜೂ. 10: ಬಂಟಕಲ್ಲು ಮಧ್ಯವಾದಿರಾಜ ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯದ ಯಾಂತ್ರಿಕ ಅಂತಿಮ ವರ್ಷದ ಎದ್ಯಾರ್ಥಿಗಳು ಸಯಂಚಾಲಿತ ನೀರನ ಟ್ಯಾಂಕ್ ಸ್ವಚ್ಛಗೊಳಿಸುವ ತಂತ್ರಜ್ಞಾನ ಅಭಿವೃದ್ಧಿಪಡಿಸಿದ್ದಾರೆ.

ಯಾಂತ್ರಿಕ ವಿಭಾಗದ ಅಂತಿಮ ವರ್ಷದ ವಿದ್ಯಾರ್ಥಿಗಳಾದ ಶ್ರೀನಾಥ್ ಆರ್.ಎಸ್., ನಿಬಿಲ್ ಎಸ್.ಎಸ್., ವಿಜಯ ಕುಮಾರ್ ದೊಡ್ಡಮನಿ ಮತ್ತು ಮತ್ತು ಚಂದನ್ ಎಂ.ಡಿ. ಅವರು ವಿಭಾಗದ ಸಂಭವಿಸುವ ಸಾಧ್ಯಕ್ಷೆ ಇರುತ್ತದೆ. ಪ್ರಸ್ತುತ್ತ ಈ ಮುಖ್ಯಸ್ಥ ಡಾ। ಸುದರ್ಶನ್ ರಾವ್ ಕೆ. ಅಭಿವೃದ್ಧಿಪಡಿಸಿರುವ ತಂತ್ರಜ್ಞಾನ ಬಳಸಿ ಜಾಲಿತವಾಗಿದ್ದು, ನಾಲ್ಕು ಲಿಂಕ್ ಗಳ ಆವರ ಮಾರ್ಗದರ್ಶನದಲ್ಲಿ ಪ್ರಸ್ತುತ ನೀರಿನ ಟ್ಯಾಂಕ್ ಗಳನ್ನು ಸಮರ್ಪಕ ಮೆಕ್ಯಾನಿಸಂಗ ಅಳವಡಿಸಲಾದ ತಂತಿ ತಂತ್ರಜ್ಞಾನ ಅಭಿವೃದ್ಧಿಪಡಿಸಿದ್ದಾರೆ.

ಕಂತ್ರಜ್ಞಾನ ಅಭಿವೃದ್ಧಿಪಡಿಸಿದ್ದಾರೆ. ರೀತಿಯಲ್ಲ _____ ಟ್ಯಾಂಕಿನ ಒಳ ಮೇಲ್ಬೈಯು ಸಾಮಾನ್ಯವಾಗಿ ಮನೆ, ಹೊಟೇಲ್ ಸ್ವಚ್ಚಗೊಳಿಸಲು ಸಾಧ್ಯ ಟ್ಯಾಂಕಿನ ಒಳ ಮೇಲ್ಬೈಯು ಈ ಉಪಕರಣವನ್ನು ರೀತಿಯಲ್ಲಿ ಸ್ವಚ್ಚಗೊಳಿಸುತ್ತದೆ. ಮತ್ತು ಆಸ್ಪಕ್ರೆ ಮುಂತಾದ ಕಟ್ಟಡಗಳ ಮೇಲ್ಬಾವಣಿಗಳಲ್ಲಿ



ಕೆಲವೊಮೆ ಅವಘಡಗಳು ಒಳಾಂಗಣಕೆ ರೀತಿಯಲ್ಲಿ ಹೆಚ್ಚು ತ್ರಮವಿಲ್ಲದೆ ಬ್ರಷ್ ಮುಖಾಂತರ ಉಪಕರಣವು

ಇರಿಸಲಾದ ಸಿಲಿಂಡರ್ ಆಕಾರದ ಟ್ಯಾಂಕ್ ಸ್ಪಚ್ಚಮಾಡಲು ಸಾಧ್ಯವಾಗುವುದಿಲ್ಲ ನ ತೂತಿನ ಮುಖಾಂತರ ಟ್ಯಾಂಕ್ ನ ಡಾ। ಎಚ್. ಉದಯ ಪ್ರಸನ್ನ ಗಣೇಶ್

ಉಪಕರಣವು ಟ್ಯಾಂಕಿನ ಒಳ ಮೇಲ್ಟೈಯನ್ನು ಉತ್ತಮ

ಕಾಲೇಜಿನ ನೀರಿನ ಟ್ಯಾಂಕ್ ಗಳನ್ನು ಕಾರ್ಮಿಕರ ಗಳನ್ನು ಸ್ವಚ್ಛಗೂಳಿಸಲು ವಿನ್ಯಾಸ ಡಾಣಿರುಮಲೇಶ್ವರ ಭಟ್, ವಿಭಾಗದ ಸಹಾಯದಿಂದ ಸ್ವಚ್ಛಗೊಳಸಲಾಗುತ್ತದೆ. ಮಾಡಲಾಗಿದೆ ಇದು ನಾಲ್ಕು ಲಿಂಕ್ ಮುಖ್ಯಸ್ಥ ಡಾಸುದರ್ಶನ್ ರಾವ್. ಕೆ. ಇದರಿಂದ ಟ್ಯಾಂಕ್ ಗಳನ್ನು ಸರಿಯಾಗಿ ಗಳ ಮೆಕ್ಯಾನಿಸಂ ಹೊಂದಿದ್ದು ಟ್ಯಾಂಕ್ ವಿಭಾಗದ ಪ್ರಾಜಿಕ್ಟವರ್ಕ್ ಸಂಯೋಜಕ



LIST OF SPONSORED/BEST PROJECTS FOR THE ACADEMIC YEAR 2018-19

eam No	USN	Student Name	Project Title	Guide Name	Remarks
	4MW13ME023	CHIDANAND S HIREMATH		Mr. Raja Yateesh Yadav (9964281896)	VTU Sponsered Project - Rs.5000
1	4MW15ME022	DHANRAJ V	Fabrication and tention of one friendly Silanon		
	4MW15ME033	IMTHIYAZ	Fabrication and testing of eco-friendly Silencer		
	4MW16ME404	MANJUNATH			
	4MW15ME004	AKSHAY HERLE R			KSCST Sponsered Project-
2	4MW15ME011	ASHISH H PRABHU	Experimentation and analysis of radiant cooling	Mr. V Vijendra Bhat	
2	4MW15ME034	INDRESH	system	(7829556314)	Rs.9000
	4MW15ME035	JAVINS AVIN DSOUZA			
	4MW15ME015	CHARAN RAO			
3	4MW15ME029	GURUCHARAN	Design and fabrication of automatic food	Mr. Lingaraj K Ritti	KSCST Sponsered Project-
3	4MW15ME032	HITHESH MENDON	serving machine	(9740892125)	Rs.7000
	4MW15ME040	KARTHIK R			
	4MW15ME039	KARTHIK BHAT K	Enhancement of surface properties of	Dr. Gajanan Anne (9743506565)	Best project award in final year project exhibition held at SMVITM
4	4MW15ME042	KIRAN			
4	4MW15ME043	LIKHITHRAJ	biocompatible magnesium alloy using ball burnishing technique		
	4MW15ME044	MAHESH ACHARYA	burnishing technique		
	4MW15ME068	POOJARY AKSAYA RAJU		Mr. Ravinarayan R Rao (9481939824)	KSCST Sponsered Project- Rs.10,000 & VTU Sponsered Project - Rs.5000
7	4MW15ME082	RAJATH KUMAR	Design and fabrication of Active track cleaning		
7	4MW15ME084	RAKSHITH R	machine		
	4MW15ME092	SAGAR SHETTY S			
	4MW15ME074	PRAMOD M AMIN		Mr. Lingaraj K Ritti (9740892125)	KSCST Sponsered Project Rs.7500
0	4MW15ME086	REEVAN NELSON LOBO	Design and fabrication of Pepper separator and		
8	4MW15ME091	SAGAR	collector		
	4MW15ME101	SHETTY LATISH BHASKAR			
	4MW15ME076	PRATHEEK I			
9	4MW15ME080	RAHUL V HEBBAR	Design and fabrication of Cahew nut deshelling	Mr. V Vijendra Bhat (7829556314)	KSCST Sponsered Project Rs.9000
9	4MW15ME109	SUMANTH B S	machine		
	4MW15ME114	U SURAJ SHET			
	4MW15ME093	SANJAY B R		Ma Assab Makes	Deat availant award in fire
10	4MW15ME108	SRIHARI	Faldable and baland	Mr. Ananth Mohan	Best project award in final
10	4MW15ME115	VENKATESH ACHARYA	THE RESIDENCE OF THE PROPERTY	Mallya (9964379957)	year project exhibition held at SMVITM
	4MW16ME410	SUDARSHAN M			



Lakshya Motorsports- A student team from Dept. of Mechanical Engineering, at Buddh International Circuit – SAE SUPRA 2019

Lakshya Motorsports, a team of 20 students from the Department of Mechanical Engineering of Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal have participated in the Society of Automotive Engineers (SAE) – SUPRA 2019, a national-level engineering student competition where teams design and fabricate a Formula- style vehicle as per the design standards of SAE INDIA.

The SAE –SUPRA event was scheduled between 15-20 July 2019 at Buddh International Circuit, Greater Noida. SMVITM was one among the 127 teams across India that participated in the event and showcased their vehicles. This platform is recognized and considered as one of the best to develop required skill sets pertaining to designing and fabricating the entire Formula-style vehicle.

The President of Shri Sode Vadiraja Mutt Education trust Shri Vishwavallabha Theertha Swamiji acknowledged the achievement of the students and blessed them. The Management of the institution also lauded the students and encouraged them to participate in more of such events in upcoming days. The Principal of the institution Dr. Thirumaleshwara Bhat recognized and appreciated the efforts put in by the students to scale such heights. The faculty advisors of the team Dr. Gajanan Anne and Mr. Aditya Kudva S also accompanied the team for the event.

The major sponsors for the vehicle alongside the Management of the institution include Ace Manufacturing Systems (AMS), Bengaluru, G Shankar Group of Concerns, Udupi and Hotel Karthik Estate, Udupi.



PLACED STUDENTS OF MECHANICAL ENGINEERING DEPARTMENT

S. No.	Name	USN	Company
1	CHIDANANDA SHANKRAYYA HIREMATH	4MW13ME023	Stumpp Schuele & Somappa Srings Pvt. Ltd., United Rubber Industries, Mumbai
2	ADARSH A PRABHU	4MW15ME001	Usha Armour Private Limited, Bengaluru
3	ASHISH H PRABHU	4MW15ME011	Usha Armour Private Limited, Bengaluru, United Rubber Industries, Mumbai
4	DHANUSH V	4MW15ME023	Usha Armour Private Limited, Bengaluru
5	GAUTHAM V SHRIYAN	4MW15ME027	Ethnus Consultancy Services Pvt. Ltd., QSpiders Software Testing Center
6	IMTHIYAZ	4MW15ME033	SANRIYA Engineering and Pvt. Ltd.
7	JAVINS AVIN DSOUZA	4MW15ME035	Infosys Ltd., Bengaluru, QSpiders Software Testing Center
8	JAVINS AVIN DSOUZA	4MW15ME035	QSpiders Software Testing Center
9	KARTHIK R	4MW15ME040	Usha Armour Private Limited, Bengaluru
10	LIKHITHRAJ	4MW15ME043	Caliper Engineering and Lab Pvt. Ltd., United Rubber Industries, Mumbai
11	MAHESH ACHARYA	4MW15ME044	SANRIYA Engineering and Pvt. Ltd.
12	MANISH T HEJAMADI	4MW15ME047	Usha Armour Private Limited, Bengaluru
13	PRAJWAL	4MW15ME072	Stumpp Schuele & Somappa Srings Pvt. Ltd.,
14	PRAJWAL SHETTIGAR J	4MW15ME073	Stumpp Schuele & Somappa Srings Pvt. Ltd.,
15	RAKSHITH R	4MW15ME084	RS Group, Bengaluru, Samundra Institute of Maritime Studies (SIMS) Cochin.
16	SAGAR	4MW15ME091	RS Group, Bengaluru
17	SANJAY BHANDARI	4MW15ME094	Usha Armour Private Limited, Bengaluru, United Rubber Industries, Mumbai
18	SHAILESH	4MW15ME097	Stumpp Schuele & Somappa Srings Pvt. Ltd.,
19	SHETTY LATISH BHASKAR	4MW15ME101	United Rubber Industries, Mumbai
20	SURENDRA	4MW15ME113	Stumpp Schuele & Somappa Srings Pvt. Ltd.,
21	U SURAJ SHET	4MW15ME114	Path Front Bengaluru, RS Group, Bengaluru
22	VENKATESH ACHARYA	4MW15ME115	Usha Armour Private Limited, Bengaluru
23	VISHAL DEVENDRA NAIK	4MW15ME120	Stumpp Schuele & Somappa Srings Pvt. Ltd.,
24	SHREYAS S ACHARYS	4MW16ME408	Stumpp Schuele & Somappa Srings Pvt. Ltd.,
25	SHREYAS S S	4MW15ME104	SANRIYA Engineering and Pvt. Ltd.
26	SUDARSHAN M	4MW16ME410	Caliper Engineering and Lab Pvt. Ltd., SANRIYA Engineering and Pvt. Ltd.



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DEPARTMENT OF MECHANICAL ENGINEERING



STUDENTS OF FINAL YEAR A SECTION



STUDENTS OF FINAL YEAR B SECTION



PROGRAM OUTCOMES

The graduates of Mechanical Engineering program will attain the ability to:

- → Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- → **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- → Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- → Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- → Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- → The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- **→ Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- → Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- → Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- → **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- → Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- → **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
- **PSO 1:** Apply the concepts of engineering mechanics, materials science, design, manufacturing, management & CAD/CAM to develop mechanical engineering systems.
- **PSO 2:** Apply the knowledge acquired in thermal, fluid and energy systems in contributing towards sustainable societal development.