

Yanthrika

A Newsletter by the Department of ME

Vol: 4 Issue: 1

Year: 2018-19



**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.

Yanthrika

A Newsletter by the Department of ME

Vol: 4 Issue: 1

Year: 2018-19

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.

Yanthrika

A Newsletter by the Department of ME

Vol: 4 Issue: 1

Year: 2018-19

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 Workshop 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.



Yanthrika

A Newsletter by the Department of ME

Vol: 4 Issue: 1

Year: 2018-19

- 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 Anne in 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

Yanthrika

A Newsletter by the Department of ME

Vol: 4 Issue: 1

Year: 2018-19

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

Yanthrika

A Newsletter by the Department of ME

Vol: 4 Issue: 1

Year: 2018-19

National Institute of Technical Teachers Training and Research, Kolkata held at Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udipi 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, Udipi 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

Sl 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

April – May 2019 Courses

1	Ananth Mohan Mallya	Enhancing soft skills and personality
2	Lingaraj K Ritti	
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	Inspection and quality control in manufacturing
7	Sudarshan Rao K	
8	Ravinarayan R Rao	1. Basics of finite element analysis – 1 2. Effective engineering teaching in practice

Yanthrika

A Newsletter by the Department of ME

Vol: 4 Issue: 1

Year: 2018-19

NPTEL - STUDENT ACCOMPLISHMENTS

September – October 2018 Courses

Sl No	Name	Course(s)
1	Sunil	1. Experimental Stress Analysis - An Overview 2. 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	
11	Abhishek	Mechanics of machining
12	Deepak Achar	Product design and innovation
13	Waleed Shaikh	1. Laws of thermodynamics 2. Refrigeration and air conditioning

NEWSPAPER ARTICLES ABOUT THE STUDENT PROJECTS

ಬಂಟಕಲ್ಲು ಕಾಲೇಜಿನ ವಿದ್ಯಾರ್ಥಿಗಳಿಂದ 'ಕಾಳುಮೆಣಸು ವಿಭಜಕ ಯಂತ್ರ' ಅಭಿವೃದ್ಧಿ

ಶಿವರಾಜ್ ಶ್ರೀ ಮಧ್ವನಾಥರಾಯ ಶಾಂತಿಕೆ ಮಹಾವಿದ್ಯಾಲಯದ ಬಂಟಕಲ್ಲು ಸಮೀಪದ ಯಾಂತ್ರಿಕ ವಿಭಾಗದ ವಿದ್ಯಾರ್ಥಿಗಳಾದ ಲತೀಶ ಭಾಸ್ಕರ್, ರಿವಾಜ್ ಸೆಲ್ವಾ ಲೋದೋ, ಸಾಗರ್, ಪ್ರದೀಪ್ ಎಂ. ಅಮೀನ್ ಕಂಠಪ್ಪ ಅಂತಿಮ ದರ್ಜೆ ವಿದ್ಯಾರ್ಜನೆಯ ಪಡೆದುಕೊಂಡು 'ಕಾಳುಮೆಣಸು ವಿಭಜಕ ಮತ್ತು ಸಂಗ್ರಹಣೆ'ಯ ಮೂಲ ಮಾದರಿಯನ್ನು ಸಹಾಯಕ ಪ್ರಾಧ್ಯಾಪಕ ಲಿಂಗರಾಜ್ ರಿಶಿ ಅಪರ ಮಾರ್ಗದರ್ಶನದಲ್ಲಿ ಅಭಿವೃದ್ಧಿಪಡಿಸುತ್ತಾರೆ. ಕೃಷಿಯು ಭಾರತ ದೇಶದ ಬೆನ್ನಲಿನವಾಗಿದ್ದು ಭಾರತದ ಆರ್ಥಿಕತೆಯ ಮೇಲೆ ತುಂಬಾ ಪರಿಣಾಮವನ್ನು ಬೀರುತ್ತದೆ. ಕಾಳು ಮೆಣಸು ಕೃಷಿಯು ಭಾರತದ ಪ್ರಮುಖ ಕೃಷಿ ಉತ್ಪಾದನೆಯಾಗಿದ್ದು ಪ್ರಸ್ತುತ ಇರುವ ಯಂತ್ರದಲ್ಲಿ ಕಡಿಮೆ ವ್ಯಕ್ತ ಮತ್ತು ಹೆಚ್ಚಿನ ಸಮಯ ಸಮರ್ಥನಗಳಿರುವುದರಿಂದ ಕಾಳು ಮೆಣಸು ಬೇರ್ಪಡಿಸುವಿಕೆ ಮತ್ತು ಸಂಗ್ರಹಿಸುವಿಕೆಯ ನಿರ್ವಹಣೆಯ ಕೆಲವು ಕ್ಷಿಪ್ರವಾಗಿವೆ. ಈ



ಕಾರ್ಯವನ್ನು ಸುಗಮಗೊಳಿಸುವ ಸಲುವಾಗಿ ವಿದ್ಯಾರ್ಥಿಗಳು ಇನ್ನು ಹೆಚ್ಚಿನ ತಂತ್ರಜ್ಞಾನವನ್ನು ಬಳಸಿ ಬೇರ್ಪಡಿಸುವ ಮತ್ತು ಸಂಗ್ರಹಿಸುವ ಯುನಿಟ್‌ಗಳನ್ನು ಅಳವಡಿಸಬೇಕಾಗಿದೆ. ಈ ಯಂತ್ರವು ಕಾಳುಗಳನ್ನು ಬೇರ್ಪಡಿಸಿ, ಅವುಗಳನ್ನು ಫಲಿಸಿ ಮತ್ತು ಅನವಶ್ಯಕ ಕಣಗಳಿಂದ ಬೇರ್ಪಡಿಸುತ್ತದೆ. ಬಹುಶಃ ಒಣಗಿಸುವ ಅನಂತರ ಪುನಃ ಈ ಕಾಳುಗಳನ್ನು

ನಿರ್ವಾಹಕ ಒತ್ತಡವನ್ನು ಬಳಸಿಕೊಂಡು ಸಂಗ್ರಹಿಸಲಾಗುತ್ತದೆ. ವಿದ್ಯಾರ್ಥಿಗಳ ಈ ವಿವರಣೆ ಪ್ರಯತ್ನಕ್ಕೆ ಕೆಎಸ್ ಸಿಎಸ್‌ಟಿ, ಬೆಂಗಳೂರು ಇವರು ರೂ. 7,500 ಪ್ರಾಯೋಜನಕ್ಕೆ ಸಹಾಯ ನೀಡಿದ್ದಾರೆ. ಕಾಲೇಜಿನ ಆಡಳಿತ ಮಂಡಳಿ, ಪ್ರಾಂಶುಪಾಲರು ಮತ್ತು ಯಾಂತ್ರಿಕ ವಿಭಾಗ ಮುಖ್ಯಸ್ಥ ಡಾ. ಸುದರ್ಶನ್ ರಾವ್ ಅವರು ವಿದ್ಯಾರ್ಥಿಗಳ ಸಾಧನೆಗೆ ಮೆಚ್ಚುಗೆ ವ್ಯಕ್ತಪಡಿಸಿದ್ದಾರೆ.

ಬಂಟಕಲ್ಲು ತಾಂತ್ರಿಕ ಕಾಲೇಜು ವಿದ್ಯಾರ್ಥಿಗಳ ಸಾಧನೆ ನೀರಿನ ಟ್ಯಾಂಕ್ ಸ್ವಚ್ಛಗೊಳಿಸುವ ತಂತ್ರಜ್ಞಾನ ಆವಿಷ್ಕಾರ

ಶಿವರಾಜ್ ಶ್ರೀ ಮಧ್ವನಾಥರಾಯ ಶಾಂತಿಕೆ ಮಹಾವಿದ್ಯಾಲಯದ ಯಾಂತ್ರಿಕ ವಿಭಾಗದ ಅಂತಿಮ ದರ್ಜೆಯ ವಿದ್ಯಾರ್ಥಿಗಳು ಸ್ವಯಂಚಾಲಿತ ನೀರಿನ ಟ್ಯಾಂಕ್ ಸ್ವಚ್ಛಗೊಳಿಸುವ ತಂತ್ರಜ್ಞಾನ ಅಭಿವೃದ್ಧಿಪಡಿಸಿದ್ದಾರೆ. ಯಾಂತ್ರಿಕ ವಿಭಾಗದ ಅಂತಿಮ ದರ್ಜೆಯ ವಿದ್ಯಾರ್ಥಿಗಳಾದ ಶ್ರೀನಾಥ್ ಆರ್.ಎಸ್., ನಿಖಿಲ್ ಎಸ್.ಎಸ್., ವಿಜಯ ಕುಮಾರ್ ದೊಡ್ಡಮನಿ ಮತ್ತು ಚಂದನ್ ಎಂ.ಡಿ. ಅವರು ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥ ಡಾ. ಸುದರ್ಶನ್ ರಾವ್ ಕೆ. ಅವರ ಮಾರ್ಗದರ್ಶನದಲ್ಲಿ ಪ್ರಸ್ತುತ ತಂತ್ರಜ್ಞಾನ ಅಭಿವೃದ್ಧಿಪಡಿಸಿದ್ದಾರೆ. ಸಾಮಾನ್ಯವಾಗಿ ಮನೆ, ಹೊಟೆಲ್ ಮತ್ತು ಆಸ್ಪತ್ರೆ ಮುಂತಾದ ಕಟ್ಟಡಗಳ ಮೇಲ್ಭಾಗಗಳಲ್ಲಿ ಇರಿಸಲಾದ ನೀರಿನ ಟ್ಯಾಂಕ್‌ಗಳನ್ನು ಕಾರ್ಮಿಕರ ಸಹಾಯದಿಂದ ಸ್ವಚ್ಛಗೊಳಿಸಲಾಗುತ್ತದೆ. ಇದರಿಂದ ಟ್ಯಾಂಕ್‌ಗಳನ್ನು ಸರಿಯಾಗಿ ಸ್ವಚ್ಛಗೊಳಿಸಲು ಸಾಧ್ಯವಾಗುವುದಿಲ್ಲ.



ಮತ್ತು ಕೆಲವೊಮ್ಮೆ ಅವಘಡಗಳು ಸಂಭವಿಸುವ ಸಾಧ್ಯತೆ ಇರುತ್ತದೆ. ಪ್ರಸ್ತುತ ಅಭಿವೃದ್ಧಿಪಡಿಸಿರುವ ತಂತ್ರಜ್ಞಾನ ಬಳಸಿ ನೀರಿನ ಟ್ಯಾಂಕ್‌ಗಳನ್ನು ಸಮರ್ಪಕ ರೀತಿಯಲ್ಲಿ ಹೆಚ್ಚು ಕ್ರಮವಿಲ್ಲದ ಸ್ವಚ್ಛಗೊಳಿಸಲು ಸಾಧ್ಯ. ಈ ಉಪಕರಣವನ್ನು ಸಿಲಿಂಡರ್ ಆಕಾರದ ಟ್ಯಾಂಕ್ ಗಳನ್ನು ಸ್ವಚ್ಛಗೊಳಿಸಲು ವಿನ್ಯಾಸ ಮಾಡಲಾಗಿದೆ. ಇದು ನಾಲ್ಕು ಲಿಂಕ್ ಗಳ ಮೆಕ್ಯಾನಿಸಂ ಹೊಂದಿದ್ದು ಟ್ಯಾಂಕ್ ನ ತೊಣೆ ಮುಹಾಂತರ ಟ್ಯಾಂಕ್ ನ

ಒಳಾಂಗಕ್ಕೆ ಸೇರಿಸಬಹುದಾಗಿದೆ. ಈ ಉಪಕರಣವು ಮೋಟಾರು ಚಾಲಿತವಾಗಿದ್ದು ನಾಲ್ಕು ಲಿಂಕ್ ಗಳ ಮೆಕ್ಯಾನಿಸಂ ಆಳವಡಿಸಲಾದ ತಂತಿ ಬ್ರಷ್ ಮುಹಾಂತರ ಉಪಕರಣವು ಟ್ಯಾಂಕ್ ನ ಒಳ ಮೇಲ್ಭಾಗವನ್ನು ಉತ್ತಮ ರೀತಿಯಲ್ಲಿ ಸ್ವಚ್ಛಗೊಳಿಸುತ್ತದೆ. ಕಾಲೇಜಿನ ಪ್ರಾಚಾರ್ಯ ಡಾ.ತಿರುಮಲೇಶ್ವರ ಭಟ್, ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥ ಡಾ.ಸುದರ್ಶನ್ ರಾವ್, ಕೆ. ವಿಭಾಗದ ಪ್ರಾಚಾರ್ಯ ವರ್ತಮಾನ ಸಂಯೋಜಕ ಡಾ. ಎಚ್. ಉದಯ ಪ್ರಸನ್ನ ಗಣೇಶ್

Yanthrika

A Newsletter by the Department of ME

Vol: 4 Issue: 1

Year: 2018-19

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

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



Yanthrika

A Newsletter by the Department of ME

Vol: 4 Issue: 1

Year: 2018-19

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.



Yanthrika

A Newsletter by the Department of ME

Vol: 4 Issue: 1

Year: 2018-19

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.

Yanthrika

A Newsletter by the Department of ME

Vol: 4 Issue: 1

Year: 2018-19

DEPARTMENT OF MECHANICAL ENGINEERING



STUDENTS OF FINAL YEAR A SECTION



STUDENTS OF FINAL YEAR B SECTION



Yanthrika

A Newsletter by the Department of ME

Vol: 4 Issue: 1

Year: 2018-19

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.