



**CANARA
ENGINEERING COLLEGE**
MECHANICAL ENGINEERING DEPARTMENT
(ACCREDITED BY NATIONAL BOARD
OF ACCREDITATION)



NEWSLETTER

MECH MIRROR

**VOLUME 7
ISSUE 2
AUGUST 2018**



Department Vision

To impart state of the art quality mechanical engineering education and create competent professionals.



Department Mission

M1: Imparting engineering education through experienced faculty, good infrastructure and systematic teaching learning process.

M2 Providing an environment for the application of gained knowledge to design and develop products for industries and research activities.

M3 Promoting high standards of professional ethics and accountability

Program education objectives (PEO):

PEO 1: Be capable of applying relevant skills of basic sciences, engineering design and modeling, manufacturing, management etc. learnt in the programme for their professional career.

PEO 2: Strengthen themselves, using the infrastructure at their disposal, to get placed in the areas of their interest, enter into higher education and take up research assignments so as to meet the challenges of engineering world.

PEO:3 Be able to develop the communication skills, professional personality and ethical values that will mould them into a good human beings, responsible citizens and competent professionals.

Program specific objectives(PSO)

PSO1: Capability to assess and solve mechanical and interdisciplinary engineering problems to meet needs of the society

PSO2: Possesses adequate interpersonal skills to solve managerial and technical issues

Listen to HOD

Demand for experienced mechanical engineering is growing. Hence to cater the needs of industry, freshers have to be trained/oriented under training and placement department according to the requirements. This will benefit the students and industry as well. In this regard, department had invited a large number of alumni to share their rich experience in the different domains of mechanical engineering. It has started giving results in terms of on and off-campus placements to the final year students.

These students have invested tremendous effort in giving very good projects to the engineering arena. Working with them was amazing. The mechanical department is trying to align all the co curricular activities like workshops, vacation training, certificate courses, industrial visits, internships, major and minor projects. The objective is to facilitate placements, entrepreneurship and help our students shape their future and that of our country.

Finally, I would like to wish good luck and a bright career for all the outgoing students of 2018 batch. I also whole heartedly appreciate the effort put by our teaching and technical staff in providing all sorts of support to the students. Last but not the least my congratulations to the publication team for bringing MechMirror newsletter successfully.



Dr. B. Krishna Prabhu
Professor and Head

EDITORIAL BOARD**Staff Advisors:**

Dr. B Krishna Prabhu, HOD

Dr. Venkatesh N, Professor

Chief editor:

Sandesh Kumar Rai

Assistant professor

Student coordinators:

Vignesh shenoy

Harish hedge

Ganesh R Gouda

Vishwanath bhat

Prateek Shetti

Rahul Rao

Vignesh Shanbhag

Amith B N

FROM EDITOR'S DESK**Internships- gateway to the knowledge hub**

Dear reader,

The growing demand for the industry specific and industry ready students finally met in the newly introduced syllabus of VTU by introducing four weeks of internship programme in the specific domains of the engineering.

As credits have been given for the internships, it will not only benefit the students but also industry in terms of industry ready students.

The knowledge level of students will surely improve with internship, which will help students to get into the industries of their interest to make a successful career.

So students have to prepare themselves to get the industries of their choice which will help in absorbing them. It might help in placements in core companies. I wish all the best to the students for the coming semester.



Prof. Sandesh Kumar Rai
Chief editor

STUDENT NEWS

PLACEMENT ACTIVITY

The Placement process is ongoing and total 65 offers from 53 various companies to the mechanical final year students during the academic year 2017-18.

STUDENT NAME	COMPANY PLACED
Pratik Pramod Kindalkar	SLK Software
Dhanush P Nayak	SLK Software
Bhoomika Wagle	HostZyro
	Automotive Axles Pvt Ltd
JaykumarRajanikantKalariya	HostZyro
	Magnasoft
KARTHIK.N.S	HostZyro
	Automotive Axles Pvt Ltd
SAMEER S	Alpha 9 Marine Services
Chandrashekhara Rohit Rao	Alpha 9 Marine Services
MEVIN MISHAL RODRIGUES	Alpha 9 Marine Services
	Magnasoft
FLOYD AURVIN NORONHA	Alpha 9 Marine Services
GURURAJ HANJI	Shriram Transport Finance
	Anglo Eastern
GANESHA PRASAD	Shriram Transport Finance
NAVYA GANAPATI BHANDARKAR	24/7,SEG
	Magnasoft
Ajay RoydenD'souza	Mphasis-Techsupport
KARTHIK KB	Mphasis-Techsupport
	Royal Arabian
SHREYAS	Mphasis-Techsupport
Nahush Kumar	Mphasis-Techsupport
Varun S	Mphasis-Techsupport
Rajath M Bhandarkar	Mphasis-Techsupport
DEEPAK H SHENOY	Mphasis-Techsupport
Tushar H P	Mphasis-Techsupport
Harshith	Mphasis-Techsupport
	Hullo Jobs
LARSON SEQUEIRA	Qspiders
PRABHATH P KELKAR	Qspiders
Vasantha	Qspiders
KAUSHAL P SHETTY	Qspiders
	Magnasoft
SRIPAD ULLURA	SANRIA Engineering
	Magnasoft

Abhishek	Magnasoft
ASHISH PRABHU	Magnasoft
BRIAN EDWIN SEQUEIRA	Magnasoft
DEEKSHITH M G	Magnasoft
Swasthik J	Magnasoft
Karthik.K.S	Magnasoft
Madhusudan Jaganath	Magnasoft
Nagaraj VenkateshMoger	Magnasoft
PRANAY KUMAR SURVE	Magnasoft
PRATHITH PS	Magnasoft
SUHAS SALANKE C	Magnasoft
VINAYAK RAO	Magnasoft
Vishpal Hegde J N	Magnasoft
Paresh Gaonkar	Magnasoft
PRASAD K.R	Magnasoft
Abhilash	Magnasoft
HARSHITHA G	Magnasoft
IMMANUEL KEERTHANA JEN	Magnasoft
NITHIN	Magnasoft
Rakshith Shenoy	Magnasoft
Tejaskumar	Magnasoft
Sushant Jagadish Giriyan	Magnasoft
RONAK SHETH	BYJUS
Karthik B K	Royal Arabian
NIRBHAY SHRIKANT BADAL	Anglo Eastern
VENKATESHMURTHY G PAI	Anglo Eastern

CO-CURRICULAR ACTIVITIES

INDUSTRIAL VISITS

- The objective behind industrial visits is to get insight regarding the working environment of a company and how a company functions and make them understand expectations of the industries from fresh engineers.



- **CANARA WORKSHOP:** 42 Students from 4th semester along with 2 faculties under ISIE-SRA visited The Canara Workshops Limited, Mangalore on 17th March 2018. They got the basic knowledge about the various mechanical component manufacturing.



- **ADANI POWER PLANT:** One day industrial visit to Adani power plant was organized on 05th May 2018. Second year 30 students along with staff members visited the power plant. Industrial visit was organized by ISIE-SRA-CEC chapter. Students came to know different process involved in power generation like water treatment, coal handling, cooling tower, turbine house, different terminology involved demineralization, evaporation rate, PCB, PPM etc through interaction with power plant personnel.



➤ VARAHI POWER PLANT:

Varahi underground Hydro Power generation Plant and Dams associated for power generation was visited on 10th March 2018. Final year 91 students along with staff visited the plant

INTERNSHIPS

- Students of 6th semester have undergone internships in companies like Toyota Industries Engine India Pvt. Ltd, ACE Micromatic, Konkan Railway, GE Health Care, Bharath Motors, MCF, SKF boilers, Rock India implex, NPCIL Kaiga etc as a part of their curriculum during their vacation.



PROJECT EXHIBITION

- Final year project exhibition was inaugurated by HOD Dr. B Krishna Prabhu on 14th May 2018. Projects on design, manufacturing and research were exhibited in the event.





- KSCST funded final year project exhibition was held at SJEC mangalore on 14th May 2014. Project titled “Design and fabrication of improved biomass cook stove for areca nut husk pellets” guided by Prof. Avinash Hegde, “Design and development of sorting machine for oranges on conveyer belt with vision system” guided by Prof. Naveen Kalal and

“Fabrication and development of automatic gascontrol and safety kit” guided by Dr. N. Satheesh Kumar were exhibited.



WORKSHOP SERIES FOR STUDENTS



- **Workshop Series** were organised by Mechanical Engineering Department, in Association with CEC-ISIE-SRA was inaugurated on 24th February 2018.
- Dr. Demian Antony D'Mello, HOD, CSE Department presided over the function. Mr. Vinod Kumar M.V. Assistant Professor, Dept. of Mechanical and Electromechanical Engg. Hawassa University, Ethiopia and Mr. Srinivas Padiyar, Managing Partner, Vinayaka Engineering Works, Mangaluru were the chief guests. Dr. B. Krishna Prabhu, HOD briefed about workshop series.

1) ARDUINO FOR MECHATRONICS PROJECTS - 1 & 2



- Two days “Arduino for Mechatronics Projects workshop” was organized by Department under ISIE-on 17th February and 10th March 2018 respectively by Dr. B. Krishna Prabhu, Professor & Head of Department. Basics of hardwares and applications of Arduino for mechatronics project is dealt in hands-on manner. 59 students were trained in workshops.

2) AUTOCAD WORKSHOP



➤ One day Workshop on Auto CAD was organised on 5th May 2018 to give an insight on the drafting features of the Auto CAD for 2-D drafting environment. Auto CAD is used by designers to create fast and accurate drawings, resulting in minimum design time for products. Faculties Mr. Sandesh Kumar Rai, Mr. Rohith J Acharya, Mr. Sandesh Kamath and Final year student Peer Trainor Mr. Atul Prabhu had trained 10 students on Auto CAD.

3. BIO DIESEL PREPARATION



➤ Two days Workshop on "Bio-diesel - A Green Energy" was organised by Mechanical Engineering Department, in Association with CEC-ISIE-SRA on 24th and 25th of February 2018. Faculties Mr. Avinash Hegde, Mr. Vijeth P S, Mr. Niranjana Rai, and Mr. Santhosh- Lab Coordinator, Udupi District Bio-energy research, Information and Demonstration Center, NMAMIT, Nitte were the resource persons of the workshop. 13 students were taken trained in the workshop.

4) COMPOSITE PROCESSING



- Two days workshop on processing of composites hands-on was organised by mechanical engineering department, in association with CEC-ISIE-SRA held from 24 February 2018. Faculties Mr. Narayana Swamy and Mr. Ajith Joshi of mechanical department trained 29 students under the workshop.

5) COMMUNICATION SKILL

- Two days Workshop on "Communication Skills" was organised by Mechanical Engineering Department, in Association with CEC-ISIE-SRA held from 24 February 2018. Resource persons of the workshop were Mr. Ravindra Mallya, Assistant Professor, Department of Mechanical engineering, CEC. Mr. Srinivas Shenoy, Assistant Professor, Department of Mechanical engineering, CEC. 26 students benefitted by the workshop.



6) AUTOMOBIA



- Two days Workshop on 'Automobia on Automobiles' hands on was organised by Mechanical Engineering Department, in Association with CEC-ISIE-SRA held from 24th February 2018. Resource persons of the workshop were Mr. Shreenath Assistant Professor, Department of Mechanical Engineering, CEC, Mr. Prashanth M V Assistant Professor, Department of Mechanical Engineering, CEC. 24 students gained knowledge on automobiles.

7) SPOKEN ENGLISH:



- Two days Workshop on 'spoken english' was organised by mechanical Engineering Department, in Association with CEC-ISIE-SRA on 24th and 25th february 2018. Resource persons of the workshop were Dr. Venkatesh N, Professor, Department of Mechanical Engineering, CEC, Mr Nagesh C Kamath, Associate Professor, Department of Mechanical Engineering, CEC. Students Mr. Enosh Abhishek and Mr. Ronak Shet coordinated with resource persons. 27 students trained on spoken english.

8)FAMILIARISATION OF THERMAL POWER STATION



- Two days Workshop on 'familiarisation of Thermal Power station' was organised by Mechanical Engineering Department, in Association with CEC-ISIE-SRA held from 24th February 2018. Resource persons of the workshop were Mr Prashanth Kamath- Assistant Professor, Department of Mechanical Engineering, CEC, Mr.Ashwath Acharya-from ONGC, Mr.Srinivas Padiyar- from Vinyak Entreprisies and Ms Soumya, Aromatic Chemicals. 22 students were familiarised with the thermal power station.

9) HVAC WORKSHOP



11) CNC MACHINING

- Two days Workshop on HVAC (Heating, Ventilation and Air Conditioning) was organised by Mechanical Engineering Department, in Association with CEC-ISIE- SRA held from 24th february 2018. Resource persons of the workshop were Mr. Paramashivaiah B M, Associate Professor, Department of Mechanical Engineering, CEC, Dr. Satheesha Kumara N, Associate Professor, Department of Mechanical Engineering, CEC, Mr. Jayaram Samithadka - Manufacturer of freezers for commercial purposes. 22 students gained knowledge of HVAC.



10) 3D CAD MODELING :



- Two days Workshop on '3D CAD MODELING' was organised by Mechanical Engineering Department in Association with CEC-ISIE-SRA on 24th and 25th of February 2018. Resource persons of the workshop were Mr. Lohith R, Assistant Professor, Department of Mechanical Engineering, CEC, Mr. Vasanth Kumar S N, Assistant Professor, Department of Mechanical Engineering, CEC. 27 students were trained on 3D modelling software.

- Two days Workshop on 'MACHINISTA'- Machining using CNC Machines was organised by Mechanical Engineering Department in Association with CEC-ISIE-SRA held on 24th February 2018. Resource persons of the workshop were Mr. Sandeep S, Assistant Professor, Department of Mechanical Engineering, CEC., Ms. Medha M B, Assistant Professor, Department of Mechanical Engineering, CEC, Mr. Chandrasekhar, Technical Staff, Department of Mechanical Engineering, CEC. Students Mr. Harish B. Hegde, Mr. Raghunatha Pai, Praveen Lopes and Mr. Sandeep G of Mechanical Department, CEC. were the peer trainers. 31 students were benefitted from workshop.

12) INSIDE-OUT



- Two days Workshop on "Inside Out" was organised by Mechanical Engineering Department, In Association with CEC-ISIE-SRA on 24th and 25th February 2018. Resource persons of the workshop were Mr. Naveen A Kalal, Assistant Professor, Mechanical Engineering Department, CEC, Mr. Gopal R Pai, Assistant Professor, Mechanical Engineering Department, CEC. 28 students gained knowledge on different electrical, electronics and mechanical devices.

ALUMINI INTERERATIONS



- Alumnis Mr. Anuraag Nair and Mr. Vigneshwar Nayak were graduated from mechanical engineering in the year of 2014 visited CEC on 25th March 2018. They are 4th engineer's from Anglo Eastern ship management company. They interacted with pre-final students and explained about selection procedure for the Anglo Eastern. They discussed about working nature in ship and packages offered by the company. They briefed about the safety points and first aid procedure to be considered during any emergency. They clearly distinguished about jobs in IT sector and in ships. 50 students were participated in the interactive talk.



- Alumni Mr. Lochan K.P of 2017 batch was interacted with our pre-final year mechanical students on 20th March 2018. He addressed about importance and advantages of doing any specialized course after their graduation. He discussed about job opportunities in HVAC. He also discussed about importance of engineering subjects while doing the course on HVAC. 31 students of 6th semester were benefitted out of the interaction.



- Mr. ClydAshly Lobo, alumni and Trainee Engineer, at Ayyappa CNC, Bangalore addressed mechanical students during skill development class on 15th March 2017. He explained about opportunities for the mechanical graduates in CNC. He also briefed about manufacturing process of designing, production, quality control and working environment in company.



- Alumni Interaction with Pre-Final year Mechanical Students on 'Job opportunities for mechanical graduates in IT concern' was organised on 15th April 2018. Mr. Sooraj Shenoy, Associate Software Engineer, Tech Mahindra, elaborated the IT industry. A total of 75 students and 4 faculty members participated in the interaction programme.



- Mr. Abhishek B, Engineer, Legion Energy Bangalore had interacted with 95 students of 3rd year on 11th May 2018. He explained about his organization and their products. He also briefed about higher studies in Germany and its preparations.



- Mr. Vinyas Shetty, Piping Engineer at FLUOR DANIEL had interacted with pre-final year mechanical students on 2nd May 2018. He discussed about job opportunities in piping field, pre-requisites for this jobs. He discussed about piping course and knowledge of software i.e piping layout, smart plant, PDMS, ASME, STRESS and CEASAR. He mentioned about nature of work, method of selection in piping field. 50 students participated in it.



- Alumni interaction by Mr Krishnanand Kamath, Junior Engineer, JSW Steels, was held on 11th May 2018. He had interacted with Pre-final year mechanical students and discussed about the importance of doing internship in reputed company. He stressed involvement in final year projects, on nature of work in JSW and preparations required to face interviews. 95 students participated in the interaction.



- Alumni interaction with Pre-final year mechanical students by Prof. Vinod Kumar M.V. department of Mechanical and Electromechanical Engg. Hawassa University, Ethiopia was held on 24th February 2018 He briefed about openings in teaching field in abroad.

TECHNICAL, EXPERT TALKS AND EVENTS



EXTRA-CURRICULAR ACTIVITIES ➤ EXOTRIG 2K18- CAR AND SUPER BIKE SHOW

- Expert Talk on 'Opportunities in Abroad for Higher Studies' was conducted on 16th February 2018. Prof K.P Singh, Head Counsellor and Chief Verbal Faculty, IMFS, addressed the students of pre-final and final year. He enlightened them with information on possibilities for higher education and career opportunities abroad. Ms. Sharmila Shaligram, Centre Head, IMFS Manipal, was the Guest of Honour. Dr. Ganesh V Bhat, Principal and Dr. B. Krishna Prabhu, Head of the department of Mechanical Engineering were present during expert talk.



- Department of mechanical engineering organized one day in-house symposium on 09th May 2018. All the students of mechanical Engineering participated and presented technical presentation in the event. Student's participation was well appreciated

- Ten vintage cars and fifteen super bikes were displayed in the exhibition EXOTRIG 2K18 on 2nd March 2018. The Chief guest Mr Chnadrashekar Rao Inna, inaugurated the event . Mr Geethanand Pai, Tax consultant, Mangalore was present during the event. 15 mechanical students under ACME were organized the event during college day.

BLOOD DONATION CAMP



- Blood donation Camp organized by NSS And Youth Red Cross Unit in Association with KMC hospital Mangalore on 22nd March 2018. Dr Nirupama, KMC Mangalore, Dr Ganesh V Bhat, Principal, and the HOD's Dr B. Krishna Prabhu, Dr Rajalakshmi Samaga, and Prof. Raghavendra Shetty were present. Total 273 students including staff donated blood for noble cause. 100 mechanical students donated the blood.

FACULTY ACHIEVEMENTS

- Dr.Venkatesh authored a book “Total Quality Management” published by Sunstar Publishers, Bengaluru, India ISBN: 9789385155567 in February 2018

FACULTY DEVELOPMENT PROGRAM



- Five days Hands on Faculty Development Program on Autodesk AutoCAD was organised in association with ICT Academy, under ISIE Student Research Association (SRA) of Canara Engineering College from 16th to 20th 2018. Mr.M Padmanabha Pai ,Correspondent, CEC presided the function. Mr. Mohamed Shereef, resource person and deputy Manager, ICT Academy was the chief guest. Mr.Basavadarshan, relationship manager, ICT Academy, was the special invitee. Dr. Ganesh V Bhat, Principal and Dr. B. Krishna Prabhu, HOD graced the occasion.

RESEARCH PAPERS PUBLISHED IN INTERNATIONAL JOURNALS BY THE FACULTY

- “Studies on Effect of Graphene Nanoparticles Addition in Different Levels with Simarouba Biodiesel and Diesel Blends on Performance, Combustion and Emission Characteristics of CI Engine ” by B M Paramashivaih published in Arabian Journal for Science and Engineering by SpringerBerlinHeidelberg.<https://doi.org/10.1007/s13369-018-3121-6>.

CONFERENCE, WORKSHOPS ATTENDED AND PAPER PRESENTED BY FACULTY

- Mr. Sunil Kumar B.V attended International Conference on Advances in Manufacturing, Materials & Energy Engineering and presented a paper “Study on Mechanical and cryogenic properties of Carbon Epoxy Composites” organized at MITE Moodbidri along with Binghamton University New York on 2nd and 3rd of March 2018.
- Dr. B Krishna Prabhu attended International Conference on Advances in Manufacturing, Materials and Energy Engineering and presented a paper “Optimization of machine parameters to improve the quality of continuous cast slabs” organized at MITE Moodbidri along with Binghamton University New York on 2nd and 3rd of March 2018.
- Mr. Naveen A Kalal and Mr. Prashanth M V. attended national level workshop on “Design and Analysis of four wheel steering Mechanism” at VCET, Puttur on 16th May 2018.
- Mr. Ravindra Mallya attended 4th International Conference on Computational Method in Engineering and Health Sciences and presented a paper “Non linear transient analysis of water lubricated bearing in turbulent regime” from 19th to 20th December 2017 at MIT, Manipal.
- Mr. Niranjan Rai attended 4th International Conference on Computational Method in Engineering and Health Sciences and presented a paper “A modified co-relation to predict heat transfer coefficient in a horizontal coil in shell heat exchanger with and without circular fins using nanofluids” from 19th to 20th December 2017 at MIT, Manipal.

CONFERENCE, WORKSHOPS ATTENDED AND PAPER PRESENTED BY STUDENTS

- Mr. Rajesh Ramachandra Pai & Mr. Sanjay Rathnakar attended Solid edge workshop at BITS Pilani, KK Birla Goa Campus on 10th and 11th February 2018.
- Mr. Ozwin Pereira, Ms. Collate D'souza, Mr. Shreehari Acharya, Mr. Nirbhay badal and Mr. Narendra Prabhu participated in TIARA 2018 national level tech fest at SJEC, Mangalore on 21st and 22nd February 2018. Mr. Nirbhay badal won the 1st place.
- Ms. Harshitha & Mr. Sanjay Rathnakar attended THANTRAJNA-18, a national level Paper presentation at KVG Sullia on 12th April 2018 and won the 1st place.
- Mr. Vineeth V kamath, Mr. Harish Hegde and Mr. Damodar S. Prabhu participated in Jnanasangama - 2018 National level students conference paper presentation. at VCET Puttur on 16th May 2018 and won consolation Prizes

RESEARCH PAPERS PUBLISHED IN JOURNALS BY THE STUDENTS

- “ Design and fabrication of 3 axis pneumatic trailer” by Mr. Vineeth V kamath, Mr. Harish Hegde and Mr. Damodar S. Prabhu under the guidance of Mr. Sunil Kumar B.V. published in Jnanasangama -2018 National level students conference proceedings of VCET Puttur
- “ Effect of Cryogenic Treatment on Mechanical Properties of Carbon Epoxy Composites” by Srinivas baliga , Sarvesh morje , Shravan V.H. Sharath under the guidance of Mr. Sunil Kumar B.V. published in Jnanasangama -2018 National level students conference proceedings of VCET Puttur.

- “ Finite Element Analysis of Non Gasketed Composite Flange” by Shyammurthy Patel, Thejus J.C, Shreyas kamath, Shreyas.M under the guidance of Mr.Sunil Kumar B.V. published in Jnanasangama -2018 National level students conference proceedings of VCET Puttur.
- “Study On Mechanical & Degradation Properties Of Carbon Epoxy Composites” Faviana, Simran, Mohammed Arbaz , Sandesh bhat under the guidance of Mr.Sunil Kumar B.V. published in Jnanasangama -2018 National level students conference proceedings of VCET Puttur.
- “ Design and fabricarion of simple water lifting device” by Vishwanath bhat, Sanketh.s, Abhishek Nayak, Royson Pais under the guidance of Mr.Sunil Kumar B.V. published in Jnanasangama -2018 National level students conference proceedings of VCET Puttur.

