

MECH MIRROR

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

DEPARTMENT VISION

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

DEPARTMENT VISION

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

PO	DESCRIPTION
A	An ability to apply the knowledge of mathematics, Science and mechanical Engineering fundamentals.
B	An ability to use principles of mathematics, natural sciences and mechanical engineering sciences to identify, formulate, review and analyse complex engineering problems.
C	An ability to design a mechanical engineering based system, components or processes to meet desired needs with a focus on public health and safety, culture, society and environment..
D	An ability to use research based knowledge to conduct experiments, analyse and interpret data and synthesise information to valid conclusion.
E	An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice with an understanding of the limitations.
F	The broad education necessary to assess the impact of mechanical engineering solutions in a legal, health, safety and societal context.
G	An understanding of professional responsibility and accountability and demonstrate the need for sustainability.
H	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice
I	An ability to function effectively both as individual or member or a team leader on multidisciplinary teams..
J	An ability to communicate effectively with engineering community and with society at large
K	An ability to demonstrate the managerial knowledge to manage projects in multidisciplinary Environments
L	Recognition of the need for, and an ability to engage in life-long learning

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

Education is a blend of academics, co-curricular and extracurricular activities. I am quite happy about the academic performance of the students and congratulate faculty, technical staff as well as students for this performance. Under co-curricular activities, alumni interactions, in house symposium and skill development programmes were conducted for students. The student response for these activities was overwhelming.

Shivananda saraswathi swamiji of kaivalya Muth visited the college at the end of the semester and blessed. Swamiji along with correspondent of CEC Mr. M.P. Pai and principal visited the mechanical labs and student projects.

During the semester, student and faculty presented technical papers at different forums. Skill development program and Imperial Society of Innovative Engineering (ISIE)- student chapter of CEC were inaugurated during the semester. Students and staff also participated in extracurricular activities like blood donation, farewell function, cyclothon, treasure hunt etc.

Dr. B. Krishna Prabhu
Prof & Head



From editor's desk

Job oriented quality technical education is need of the hour

The growing demand for quality education and in multi domains is one of the requirements of the present day industry. The ever changing demands of present day industry kept the student in dilemma to choose the technical course or to join the courses in demand. But life without a technology advancement is miserable. As mentioned in the previous editorial, department has started the internal skill development and competitive exams training which will going to benefit the student in higher study and getting jobs. The students have given shown interests in various skill development programmes. Alumni interactions helping students in this regard. The current semester was filled with many technical events and which was witnessed by the students. Happy to say that placements to core companies have increased year after year. Congratulations to all toppers and i wish all the best for the exams and coming semester

Sandesh Kumar Rai
Chief editor

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COMPANIES VISITED	Selected
SIMS	14
Q-Spider	1
Automotive Axle's Ltd	2
INFOSYS (BPO)	3
TECH-MAHINDRA	11
IBM (BPO)	1
SLK SOFTWARE	4
FACE	1
Hinduja GLOBAL solutions	5
ETHNUS C S	1
Seventh Sense Technologies	3
Alpha-9 Marine	3
Software Specialists	1
Tech Global	1
BYJU'S	6
24*7	1
Anglo Eastern	2
TOTAL	60

STUDENT NEWS

PLACEMENT ACTIVITY

The Placement process is ongoing and total 60 offers from various companies to the mechanical students during the academic year 2016-17.

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.

- Industrial visit to JSW, Bellary was arranged on 18th March 2017. 48 students of 4th semester along with 2 staff visited the factory. JSW Steel is among India's largest steel producers, with a capacity of 10 MT as of 2011. JSW Group is one of the largest business conglomerates in India with a strong presence in the core economic sector.



- Industrial visit was arranged on 8th April 2017 to Bharath Fritz Werner Bangalore Ltd .49 students of 6th semester along with 2 staff visited. BFW are the manufacturer of CNC Vertical Machine, CNC Horizontal Machining Center & Special Purpose Machines industry.



- Industrial visit to BHEL Bangalore was arranged on 8th April 2017. 45 students of 6th semester along with staff visited the industry and gained knowledge on heavy electrical industry. It is the largest engineering and manufacturing enterprise in India in the energy-related/infrastructure sector.



- Industrial visit was arranged on 23rd March 2017 to Lamina Foundries Ltd, Nitte.35 students of 4th semester along with 2 staff members visited and gained the knowledge on Foundry, moulding and manufacturing processes.

PAPERS PRESENTATION BY THE STUDENTS

- Bhoomika wagle and Pratik Kindalkar Presented a paper “continuous and discontinuous sisal FRPM composites” at SDIT Mangalore on 22nd and 23rd Feb 2017
- Ganesh V Nayak presented a paper “Comparative study of critical heat flux using pool boiling” at KVGCE, Sullia and won the 1st place in the paper presentation competition.

ORIENTATION PROGRAMME

The orientation programme for Mechanical students was held on 30th January 2017. The Mechanical Department has taken an initiative on improving the skill sets of students called as Skill Development Programme. 14 Such Programmes were identified. The faculty members briefed the students on various Skill Development Programmes. This was followed by a talk by a consultant Dr. Sandesh Kamath on “Building Marketable Innovative Projects”.



CONFERENCE, SYMPOSIA, SEMINARS, WORKSHOPS, COLLEGE FESTS ATTENDED BY THE STUDENT.

- Bhoomika wagle and Pratik Kindalkar participated in Tech thought at SIT Mangalore on 27th and 28th Feb 2017 and secured 2nd place
- Aditya S Nayak, Akshay Kumar, Akshay Suvarna, K Anirudh shenoy participated in state level project exhibition Shristi 2017 and won the 2nd place at RVCE, Bangalore held from 26TH and 28TH May 2017
- Vignesh kamath, Rohan shenoy, Saurab pai, Vivek shanbag participated in project exhibition at SDMIT Ujire on 20th May 2017
- KSTSC funded the project of Aditya S Nayak, Akshay Kumar, Akshay Suvarna, K Anirudh shenoy's project “optimization of biogas generation from house hold waste” guided by Prof. Prashanth Kamath. It won the best project in state level exhibition held at RVCE, Bangalore



- Inauguration of In House Symposium under ISIE SRA for Mechanical students was conducted on 12th May 2017. Dr. Neelakanth V Londe, Professor, MITE, Moodabidri was the Chief Guest and delivered the speech. Dr. Ganesh V Bhat, Principal presided the function. Guest of Honour Dr. Subrahmanya Bhat, H.O.D, EC Department and Dr. Krishna Prabhu H.O.D, Mechanical Engineering addressed the gathering. 108 teams participated in it.



ALUMNI INTERACTIONS

- Alumni Interaction with Pre-Final Year Mechanical Students was conducted on 31 January 2017 by Mr. Kiran Pai M, Associate Engineer, General Mills India Pvt. Limited. A total of 44 students participated in the talk.



- Alumni Interaction with Mechanical Students on 'scope for Mechanical Graduates in IT Industries' by Mr. Vernon, from Icreate, Bangalore was Organised on 18th february 2017. A total of 40 students participated in the event



- Alumni Interaction with Final & Pre- year Mechanical Students on 'scope for Mechanical Graduates in Merchant Navy' was conducted on 20 February 2017. Mr. Cleaton Eric Lobo, Fourth Engineer, Merchant Navy, Executive Ship management briefed the process. A total of 40 students participated in the event.



- Mr. ClyAshly Lobo, alumni and Trainee Engineer, at Ayyappa CNC, Bangalore Addressed mechanical students in Skill development Programme class on 15 march 2017. He explained about opportunities for the Mechanical Graduates in CNC. He also explained about manufacturing process of designing, production, quality control and Working environment in his company



- Alumni Interaction with Final year and Pre-Final year Mechanical Students on “Higher Studies in Germany” by Mr. Naveen Nazareth, Graduate Engineer and Master student, Germany was conducted on 06th April 2017, A total of 150 students and 4 faculty members participated in the event.



- Alumni Interaction with Pre-Final year Mechanical Students on 'job opportunities for Mechanical Graduates in Tech Mahindra' was conducted on 15 April 2017 by Mr. Sooraj Shenoy, Associate Software Engineer, Tech Mahindra, Bengaluru. A total of 75 students and 4 faculty members participated in the event.



TECHNICAL TALKS AND EVENTS

A talk on “Winning the startup challenge” by Mr. Ashok Prabhu from USA. It was arranged on 8th February 2017. 50 mechanical students attended the programme. He explained the new business opportunities for the youth.



- The Skill development Inaugural ceremony was held on 22nd February 2017. Mr. Avinash Shettigar, Head, ISPRL and Mr. Ganesh Kamath, Management member CHSA were the chief guests. They stressed the need for the skill development class to improve themselves in competitive world to get a job in industry.



- Inauguration of ISIE Student Research Association & Two days Workshop on “DRIVERLESS CAR” was conducted on 13 May 2017. President of Function Shri. M. Padmanabha Pai (Hon. Correspondent, CEC) addressed the gathering. Chief Guest & Resource Person, Mr. Rajib Chaudhuri (Principal, Foundry Cluster Development Association, Kolkata), Guests of Honour Mr. Sagarneel Tarafdar (Deputy Project Officer, ISIE), Mr. Akshay Musale (Deputy Project Officer, ISIE), delivered the speech. Dr. Ganesh V. Bhat, Principal, Dr. B. Krishna Prabhu, H.O.D, Mechanical Engineering also graced the occasion



- Projects exhibition was inaugurated by The principal on 1st June 2017



- Shivananda saraswathi Swamiji of Kaivalya Math visited college and the department on 11 June 2017 and shown interest in project developed by the students.



EXTRACURRICULAR ACTIVITIES

- 40 students from Mechanical department donated blood in NSS-Red cross blood donation camp held in CEC on 13th April 2017.



- Farewell function for Final Year Mechanical Students was organised on 01 June 2017.



SPORTS EVENTS ATTENDED BY STUDENTS

- Mr Rajath Bhandarkar attended NSS leadership camp at VTU from 1st to 7th April 2017
- Miss Priyanka Kamath participated in Kabaddi tournament under Karnataka state Olympic games held at Hubbli from 3rd to 10th Feb 2017 secured 2nd place

FACULTY NEWS

- Mr. Ajith Joshi completed post graduation and awarded Msc (Engg) degree from VTU.
- Mr. Venkatesh Bhat resigned and left the college at end of the semester.

FACULTY DEVELOPMENT PROGRAM AND TECHNICAL TALKS

- Teaching faculties of department had attended internal FDP on "Chalk Talk: a faculty skill enhancement program" at CEC from 27th to 28th January 2017.
- Faculty leadership program by IQAC, CEC held on 11th Feb 2017. It was attended by senior faculties "Dr. Krishna Prabhu, Dr. N Venkatesh and Prof. Ramesh Desai.

RESEARCH PAPERS PUBLISHED IN INTERNATIONAL JOURNALS BY THE FACULTY

- "Studies on effect of various surfactants on stable dispersion of graphene nano particles in simarouba biodiesel" by B M Paramashivaih published in IOP Conf. Series: Materials Science and Engineering 149 (2016) 012083 doi:10.1088/1757-899X/149/1/012083

- “ Effect of heat treatment process on manganese steel ” by Sandesh Kumar, Rohith Acharya and Ravindra mallya published in Sahyadri international journal of research, ISSN: 2456-186X, volume:2 ,pgno:57-61

CONFERENCE, SEMINARS, WORKSHOPS ETC. ATTENDED BY FACULTY

- N Satheesh Kumar, B M Paramashivaiah Sandesh Kumar Rai, Avinash Hegde and Sandesh Kamath attended FDP on “Theoretical and Computational Mechanics” at NMAMIT Nitte, from 19th to 21st Jan 2017.
- Mr Sandesh kamath, Sandesh kumar Rai and Mr Vijeth attended ” Design of machine elements -2” FDP at VCET , Puttur on 27 and 28 of January 2017.
- Dr. N Venkatesh, N Satheesh Kumar, and Lohith R. attended workshop on “Condition monitoring” at SJEC Vamanjoor on 9th and 10th January 2017.
- Mr. Sadashiva acharya and Chandrashekara attended FDP on “ Laboratory training for technical supporting staff” held at MSRIT , Bangalore from 9th to 11th Jan 2017.
- Mr Sathish Nadig attended workshop on "Nanofibers and their applications" at Mangalore university from 27th Feb to 6th March 2017

CANTECH-2017

- Memorable photos captured in different events held from 1st to 4th March 2017 during CANTACH-2017



MACHINIST



TREASURE HUNT



HANDS ON
AUTOMOBILES
WORKSHOP

