



NIRZER

NEWSLETTER OF MECHANICAL ENGINEERING DEPARTMENT



Volume 7, Issue 1, July 2017, Mechanical Engineering Department

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Events & Activities

Date	Event
18 th Dec to 15 th Jan 2017	Student Internship Period
5 th January 2017	Prof. Michael Pecht, University of Maryland, USA visits the Department
27 th January 2017	National IIIE Foundation Day: One Day Workshop on Productivity Enhancement
2 nd Feb to 9 th Feb 2017	IIIE Graduateship Examination
16 th February 2017	Field Visit to Bosch Packaging Technology for Second Year Students
9 th March 2017	Project Exhibition at Agnel Polytechnic, Verna
16 th & 17 th March 2017	SPECTRUM Technical Festival
24 th March 2017	Field Visit to Kartik Induction, Goa Invescast Ltd. & Servoplast, Kundaim for Second Year Students
22 nd April 2017	One Day Workshop on Network Techniques for Project Management
25 th April 2017	Goa University Convocation 2017
3 rd May 2017	Fourth Prof Uday Amonkar Memorial Lecture & IIIE Goa Chapter Foundation Day Celebration
3 rd May 2017	B.E. Mechanical Class of 2017 Farewell Function
4 th May 2017	CII Entrepreneurship Boot Camp
6 th May 2017	Field Visit to Crompton Greaves for Third Year Students.
21 st June 2017	International Yoga Day Celebration

Department News

- Ramdas Pandit, Assistant Professor (Contract) in Mechanical Engineering Department was invited as resource person for one of the session during one week workshop on “Introduction to Hypermesh: A multi-disciplinary finite element pre-processor” at Don Bosco College of Engineering, Fatorda from 2nd to 6th January 2017.
- Prof. Upendra Bhandarkar, IIT Bombay visited the Mechanical Engineering Department on 9th January 2017.
- Dr. Vinay Shiroadkar was appointed as a member of PG admission Committee from 12th January 2017.

- Dr. Mahesh Dhavalikar co-ordinated the Science Exhibition held at ESG, Panjim; open for GEC students on 20th January 2017.
- Prof. Suraj Rane, Dr. Shridhar Mhalsekar and Shri Harichandra Chandekar attended a talk on “How to Manage Money and be a Smart Investor” by the The Consumer Guidance Society of India scheduled on 20th Jan 2017 in the ETC Department auditorium.
- Shri Milind Sakhardande, Associate Professor in Mechanical Engineering Department was invited as Chief Guest for the 45th JCI Ponda ceremony.
- Shri Milind Sakhardande co-ordinated two weeks workshop on “CMOS and VLSI Design” by IIT Kharagpur from 30th January 2017 to 4th February 2017 in GEC, Farmagudi in the capacity of Remote Centre Coordinator. The Workshop Co-ordinator was Palhavi Kerkar, Assistant Professor in Electronics & Telecommunications Department, GEC.
- Isograph software, featuring tools to solve complex reliability, safety and availability problems was procured in Industrial Engineering lab in the month of January 2017.
- Saurabh Raiker joins as PhD student in Mechanical Engineering Department from January 2017.
- Shri Mahesh Caisucar, Dr. Raghvendra Naik and Shri Harichandra Chandekar were appointed as Presiding Officers, while Santosh Matonkar, Technical Asst. was appointed as first polling officer and Gurudas Wadkar as BLO during Goa Legislative Assembly election conducted on 4th February 2017.
- Computer Engineering Department, GEC organized a talk for faculty on 'Introductory Programming' by Dr. Abhiram Ranade, Professor, IIT Bombay on 08th February 2017. Prof. Akshay Nigalye, Dr Shridhar Mhalsekar and Shri Harichandra Chandekar attended the same.
- Prof. Rajesh Prabhu Gaonkar was appointed Technical Committee Member of the Joint International Conference on Interdisciplinary Research and 8th International Conference on “Quality, Reliability Engineering, Infocom Technology and Business Operations (JIRICQRIT – 2017)”, organized by Centre for Interdisciplinary Research, Amity University and Society for Reliability Engineering, Quality and Operations Management (SREQOM) and co-organized by Lulea University of Technology, Sweden, held at Greater Noida (8th to 10th February 2017).
- Prof. Rajesh Prabhu Gaonkar appointed Convener/ Member of Programme committee of Indian Institution of Industrial Engineering (National Organization) for the year 2016-17.
- Prof. Rajesh Prabhu Gaonkar has been included as member of Board of Studies (BoS) at Kolhapur Institute of Technology.

- Retd. Colonel Mukundrai Kamat spoke on professional etiquettes to B.E.Mechanical (Sem VIII) students on 28th February and 1st March 2017. The programme was organized by Training & Placement Cell, GEC.
- Shri Mahesh Caisucar and Shri Harichandra Chandekar were appointed Counting Supervisor during Goa Legislative Assembly election held on 13th March 2017.
- Prof. Vinay Shiroadkar was appointed as the 'Faculty Coordinator' for SPECTRUM 2017, an intercollegiate national level technical event held from 16th to 17th March 2017 in the college.
- DRC (Doctoral Research Committee) meeting comprising of Prof. Uday Dabade, Head of Mechanical Engineering Department, Walchand College of Engineering, Sangli; Prof. Rathanraj K.J., Head of Industrial Engineering, BMS College, Bengaluru; Prof. Rajesh Prabhu Gaonkar, Prof. Vinay Shiroadkar, Prof. Akshay Nigalye and Prof. Suraj Rane was held on 24th March 2017.
- Shri Mahesh Dhawalikar, Associate Professor in Mechanical Engineering Department successfully defended his PhD thesis in March 2017.
- Shri Milind Sakhardande, Associate Professor in Mechanical Engineering Department attended one day remote centre coordinator orientation workshop on 30th March 2017 at IIT Bombay under NMEICT Project.
- Prof. Rajesh Prabhu Gaonkar has been appointed as Member of the 9th Goa University Court (Nominee of the Executive Council) from 01/11/2016 for two years.
- Prof. Vinay Shiroadkar was appointed as the 'Co-Chairman' for NAAC and NBA coordination committee on 17th April 2017.
- Prof. Rajesh Prabhu Gaonkar and Prof. Suraj Rane attended the 29th annual convocation of Goa University on 25th April 2017 in various capacities.
- Shri Mahesh Caisucar actively participated in the Academic Advisory Board meeting of the department of Mechanical Engineering, Don Bosco College of Engineering, Fatorda on 29th April 2017.
- Prof. Vinay Shiroadkar was appointed as the 'Chief Conductor' for Goa University Bachelor of Engineering, May/June 2017 end semester Examination.
- Prof. Rajesh Prabhu Gaonkar, Prof. Vinay Shiroadkar, Shri Milind Sakhardande Dr. Mahesh Dhawalikar, and Shri Mahesh Caisucar were deputed as centre representatives for GCET examination on 10th and 11th May 2017.

- Prof. Akshay Nigalye, Flt. Lt. B.R. Kulkarni, Dr. Mahesh Dhawalikar and Shri Santosh Matonkar, Technical Asst. were appointed as Presiding Officers during Panchayat Elections on 11th June 2017.
- Prof. Rajesh Prabhu Gaonkar was the Advisory Committee Member of 2nd National Conference on “Recent Trends in Mechanical Engineering (NCRTME-17)”, organized by Walchand College of Engineering, Sangli on 29th and 30th June 2017.
- Prof. Rajesh Prabhu Gaonkar was invited as the Guest of Honour at Agnel Institute of Technology and Design, Assagao; engineering college’s first cultural and annual day celebration.
- Prof. Vinay Shiroadkar and Shri Mangaldas Gaonkar were the co-ordinators for the conduct of Internal Test Examination.
- Ramdas Pandit, Mangaldas Gaonkar, Saurabh Raikar and Gaurish Samant were teaching faculty (contract) in the department during Jan to May 2017 while Pratik Satardekar was visiting faculty.

VVPAT Demonstration

The VVPAT (Voter-Verified Paper Audit Trail) unit which was introduced for the first time during Goa Legislative Assembly election 2017, was demonstrated for all faculty/ students and general public at GEC, Main building on 4th January 2017. Prof. Rajesh Prabhu Gaonkar and Dr. Shridhar Mhalsekar seen during the demo.



Seminar at Goa Shipyard Ltd.

Prof. Akshay Nigalye, Dr. Shridhar Mhalsekar and Shri Harichandra Chandekar attended a half-day seminar on “Polyester Resins and its Applications” conducted by Ashland India Pvt. Ltd., at Goa Shipyard Ltd., Vasco on 16th January 2017.



Prof Michael Pecht's visit to GEC

Dr. Michael Pecht, Chair Professor and Director, CALCE, University of Maryland, USA visited Goa College of Engineering on 5th January 2017 for the second time. During the meeting, deliberations on joint organization of International Conference in Goa, feasibility of student and faculty exchange programme and collaborative research avenues were explored.



National Foundation Day of IIIE

Report by Prof. Suraj Rane

As a part of Golden Jubilee celebration year of Goa College of Engineering (GEC), Farmagudi, Department of Mechanical Engineering in association with Indian Institution of Industrial Engineering (IIIE), Goa Chapter organized One Day Workshop on Productivity Enhancement: Issues and Challenges on 27th January 2017, being the foundation day of IIIE. The workshop was inaugurated by Shri Vivek B. Kamat, Director of Technical Education, Goa and President IIIE Goa Chapter, in the presence of Dr. Rajesh Prabhu Gaonkar, Head, Mechanical Engineering Department, GEC, Dr. Suraj Rane, Chairman IIIE Goa Chapter, Dr. Vinay Shirodkar, Secretary IIIE Goa Chapter and Shri Vinayak Nayak, Treasurer, IIIE Goa Chapter. The workshop started with a presentation on Swachh Bharat-Sundar Bharat since IIIE National Headquarters has declared Swachh Bharat-Sundar Bharat as the theme for the year 2017. There were four sessions by experts with industrial experience. Shri Girish Potdar, Management Consultant delivered a talk on Productivity enhancement through Materials Management. This was followed by a talk on Maintenance: Role in Productivity enhancement by Shri Prashant Naik, Manager-Continual Improvement, Projects & Engineering Services, Titan Timeproducts Ltd, Verna. Shri Sachin Mirajkar, Head, India Operations, Netzsch Technologies, Verna spoke on Productivity Enhancement as means for promoting cleaner production. The last session was delivered by Shri Vithal B. Kamat, General Manager-Manufacturing, Nipro India Pvt. Ltd. Pune on Impact of Quality Improvement on Productivity. It was attended by forty four participants from industries and academics in Goa. The workshop was co-ordinated by Shri Vinayak Nayak CEO Delta Technologies, Ponda and Shri Suraj Marathe, Assistant Professor, Don Bosco College of Engineering, Fatorda.





Group photo of the participants and guests

GEC Golden Jubilee Run

The Mechanical Engineering Department faculty participated in the Golden Jubilee GEC run organized in the GEC campus on 29th January 2017. Shri Milind Sakhardande, Associate Professor in Mechanical Engineering Department compered for the event in his unique style. Prof. Rajesh Prabhu Gaonkar and Prof. Suraj Rane participated in the 5 kms run. Prof. Akshay Nigalye, Shri Gajesh Usgaonkar and Shri Mahesh Caisucar were part of the organizing committee. For the 10 kms distance, Shri Mangaldas Gaonkar, Shri Harichandra Chandekar and Shri Saurabh Raiker successfully completed the run.



Shotokon Karate

Dr. Raghavendra Naik was tested by the examiners of Shotokon Karate-Do Japan Federation, India (Approved by Karate Association of India) and he has been promoted to the rank of 1st Sho-Dan of Karate in recognition of the progress made by diligent study of the art. He received the Diploma certificate on 6th February 2017.



Indian Institution of Industrial Engineering (IIIE) Graduateship Exam

Report by Shri Gajesh Usgaonkar

IIIE Graduate Ship Examination was conducted by IIIE, Goa Chapter at GEC from 02nd February to 09th February 2017. In total 09 candidates answered Preliminary, 15 answered Section- A and 15 answered Section-B of the exam. All the candidates who answered the exam were from the Industry. The Exam was conducted for 35 subjects, spread over eight sessions, each session being of three hours duration. The timing for the sessions was in the evening from 6 to 9 pm on working days and on Sunday it was in the morning from 10 am to 1 pm. Prof. Gajesh G. S. Usgaonkar, Associate Professor of Mechanical Engineering Department was the Chief Exam Superintendent for this exam, assisted by Prof. Ramdas Pandit, also Assistant Professor (contract) of Mechanical Engineering Department. The examination was conducted smoothly under the guidance of Prof. Milind J. Sakhardande, Associate Professor of Mechanical Engineering Department, Dr. Suraj Rane, Professor of Mechanical Engineering Department and Chairman IIIE, Goa Chapter and Dr. Rajesh Prabhu Gaonkar, Head of Mechanical Engineering Department. Many IIIE members from the Institute and Industry took active participation in the smooth conduct of the exam and were also involved in the invigilation duties. The candidates answering the exam expressed their gratitude towards the authorities of IIIE, Goa Chapter, GEC and the Principal, GEC for having the centre in the college, which is the closest centre and avoid travel to distant centres like Pune or Bangalore for answering the exam while availing leave for over a week.



Goa Marathon 2017

Goa Marathon is an annual event organized for the cause of Homes for the homeless and Hope for the hopeless children. It aims to raise awareness of the need to alleviate the suffering of the homeless and street children. The run was at the Campal Sports Ground, Panjim on 5th February 2017. For the 10 km distance Shri Harichandra Chandekar completed the 10 kms run in 55 mins 48 secs.



Two Day Workshop at BITS, Goa Campus

Dr. Raghvendra D. Naik and Shri Harichandra Chandekar attended a two day workshop on “Outcome Based Learning using Pedagogy Framework Model” organized by Teaching Learning Centre (TLC), BITS Pilani K.K.Birla Goa Campus, Goa in association with Centre for Educational Technology, IIT Kharagpur on 10th and 11th February 2017.



Field Visit to Bosch Packaging Technology, Verna

Report by Omkar Rai, S.E.Mech

On February 16th 2017 the S.E.Mechanical students visited Bosch Packaging Technology at Verna. The primary interest was to learn about how the packaging machines work. The field trip was in the morning session from 10 am to 12:00 noon. There were 65 students from the Second Year Mechanical Engineering Department. We were accompanied by Dr. Raghavendra Naik, Assistant Professor in Mechanical Engineering Department.

First and foremost students were given safety precautions such as walking within the gangway, not touching any machinery and so on by the HR Executive Mr. Derek Dsouza. Later on the students were briefed about the company. Bosch Packaging Technology mostly manufactures packaging machineries for food and confectionery items. It also manufactures fuel injectors for some automobiles like KTM and Kawasaki.



We got an opportunity to see many types of packaging machines some of which are SVI-4000 which can pack upto 10 kgs which are ordered by ITC, TERA-25 capable of packing 60 packs per minute it is ordered

by INOX. BVK-2000 and BVK-1200 are candy packing machines. We got a chance to see BVK-1200 in running condition. The field trip was concluded by motivating the students for joining the company.



Education-Industry Connect Programme at DTE, Porvorim

GCCI Education Committee in association with Directorate of Technical Education; Govt. of Goa organized “Education-Industry Connect” through Project Works of Engineering Students of Goa at DTE, Porvorim on 01st March 2017. Following three projects had been pre-selected from Mechanical Engineering Department for presentation to the industries.

- 1) Design & Fabrication of Multitasking Flexible Vegetable Chopper (For Hotels); Guide: Prof. Akshay Nigalye
- 2) Coconut Plucking Robot; Guide: Shri Harichandra Chandekar
- 3) Design & Development of Paper Recycling machine; Guide: Shri Mahesh Caisucar

The decision for funding was to be given immediately after the presentation. The presentation time limit was 3 minutes covering the scope of project including the brief description of project, innovation involved in the project, support desired in terms of finance, guidance and use of facilities and Why industry should sponsor, etc. All the above three projects were selected by the industry personnel/ entrepreneurs for sponsorship after the presentation.



Devil's Circuit, Chopdem

Devil's Circuit is not only India's first but also the biggest obstacle running series. It includes running across a 5 kms long raw terrain interspersed with 15 military style obstacles. This event was conducted in Goa for the first time at Paradise Biosphere, Chopdem. Shri Mahesh Caisucar, Shri Harichandra Chandekar and Shri Saurabh Raikar participated in Devil's Circuit on 5th March 2017.



Project Exhibition at Agnel Polytechnic, Verna



Two of the Mechanical Engineering Department student's projects were displayed at the exhibition held at Agnel Polytechnic, Verna premises on 9th March 2017. One of the project was "Ocean Water Purification using Solar Energy" which was sponsored by DST, Goa and guided by Prof. Suraj Rane and the other project "Staircase Climbing for Paraplegics" was guided by Shri Mahesh Caisucar, Assistant Professor in Mechanical Engineering Department.

Interaction with ARAI Academy

Prof. Rajesh Prabhu Gaonkar and Prof. Suraj Rane paid courtesy visit to Dr. K. C. Vora, Sr. Dy. Director & Head, ARAI Academy, The Automotive Research Association of India, Pune, when he visited Goa on 14th March 2017. They discussed various issues related to SAE India and the student level competition organized by them.



Spectrum 2017, Goa College of Engineering's annual technical event was held on 16th and 17th March 2017. The inaugural ceremony was graced by Chief Guest, Shri Antonio Rego (VP and MD, Operations, India, Commscope), Guest of Honours Shri Niraj Prasad (AGM (RBO), Region-II, SBI, Panjim) and Shri Plaban Mohanta (DGM (B&O), SBI, Panjim).



Day 1 of Spectrum saw a top class display of technical skill from the young minds of the nation. Events such as Robotrax, Robosoccer, Robosumo and Catapult saw huge participation from colleges from within as well as from outside Goa. Events such as line follower, project presentation, hackathon, model making, truss building saw the techies fight it out in the initial rounds. The sporty Engicos also involved themselves actively in competitions such as Control Cricket, Futsal and Sports Quiz. The gaming minds also participated in huge numbers in games such as Mini Militia, Clash Royale, etc. Major attractions such as Kuka Bot demonstration, Precision Parking, Stunt Show and the Super Bikes expo had people thrilled.



Day 2 of Spectrum saw events such as Robotrax, Robosumo, Robosoccer, Catapult, Model Making and Hackathon at its business end. The huge attraction in the Robotics events, i.e. Robowars also began, with ferocious combat robots from around India fighting it out for the ultimate glory. Events such as Project Presentation also saw the cream of the tech minds display their

genuine talent on a national platform. Events such as Management Psyche saw great participation from the management aspirants and budding entrepreneurs. Events such as Web Designing, Counter Strike and FIFA were instrumental in giving the computer savvy brains a platform to display their talent. Day 2 also included a General Knowledge Quiz for the Quizzards around. The two day technical event had people from all over Goa visiting the event for its major attractions in the form of Industrial Expo, Weapon Expo, and Vintage Car Expo. The Go-Kart made by Team Engico Racing was a huge attraction for the crowd as the crowd could experience a once in a lifetime experience to ride the beast that ranks in the top 10 Go-Karts designed by college students in India.



Visit to the Department

An entrepreneur by profession Shri Tushar Pawar and an alumni of Indian Institute of Science (IISc) visited Goa College of Engineering on 22nd March 2017. He was on Goa tour for research and testing purpose. He interacted with students of Mechanical Engineering during his visit. He shared valuable thoughts on the design and development of new products, challenges faced by engineers and recent trends in design. He and his partner Shri Mangaldas Gaonkar (alumni of GEC) did project on cashew juice extracting machine. This product was indigenously designed and developed by IISC to fulfill the Goan farmers need. Product got good feedback from different corners of Goa. He explained the need of technology transfer to the farmers. Providing available technology to the farmers with affordable price is the key goal of this product. He thanked GEC for giving him an opportunity to share his experience and for having a valuable interaction with the department faculty.



Visit to the Department

Dr. Uday A. Dabade, Professor and Head Department of Mechanical Engineering, Walchand College of Engineering, Sangli and Dr. Rathanraj K. J., Professor and Head, Dept. of Industrial Engineering & Management, BMS College of Engineering, Bengaluru visited the department on 24th March 2017. They paid a visit to the department laboratories and had interaction with the faculty.



Field trip to Kartik Induction, Goa Invescast Ltd. & Servoplast, Kundaim

Report by Gavin D'Mello, S.E.Mech

A field trip was organized for the students of S.E. Mechanical on 24th March 2017. The students visited various industries in Kundaim Industrial estate that dealt with various casting operations. Among them were Kartik Induction, Goa Invescast Ltd and Servoplast, Kundaim. The industry visit was coordinated by Shri Gaurish Samant, Assistant Professor (Contract) in Mechanical Engineering Department. **Servoplast, Kundaim** deals in injection moulding of pharmaceutical product. Students saw the plastic processing operation carried out on various injection moulding machines.

Kartik Induction, Kundaim produces billet stock of various grades of iron. The raw material used here was sponge iron balls and scrap metal. Students were given a chance to observe the entire casting operation from melting of the metal to finished product; which involved the following. Picking up of the raw starting material with the help of an overhead gantry crane fit with an electromagnet. This material was then put into an electric induction furnace. The production of



sponge iron and recycled scrap iron depends on the composition of the final product required. As the metal was being melted, it was stirred using a dummy magnet in the overhead gantry crane. The slag was then lifted off and discarded manually with the help of scoops fitted onto long handles. Quantities of manganese and sulphur were also added as needed. These were supplied in the form of filled bags and thrown into the molten metal and then stirred. On completion of melting and mixing of ingredients, the entire furnace was tilted, pouring the molten metal into a crucible carried by an overhead crane to the next stage of the process. The metal is then poured into the mould which has a opening in the bottom that is the size of the required billet. The metal starts solidifying as it pours out of this opening with the aid of cooling jets. The semi- solid billet stock is then diverted onto horizontal rollers where it is further cooled and cut to size. The cut billet stock is then stored to be shipped for further processing.

Goa Invescast Ltd. does investment casting of components like valve components. We were initially given a tour of all the products that were manufactured by Investcast. The process starts with machining a metal mould of the required wax pattern. Students were given a tour of the toolroom where some of these mould were made and repaired. These moulds are then placed in wax injection machines that inject wax into these moulds at high pressure and temperature. The wax patterns are then finished by hand using heated blades.

The wax patterns are then dipped into slurry and then placed on a shelf for curing. This is repeated until the desired shell thickness is obtained. The rooms in which they are kept for curing are temperature and humidity controlled. These moulds are then taken to an automated autoclave that melts the wax and forces it out of the shell mould. Molten metal is poured into these shells in batches; the composition of the metal depends on the customer specifications. Upon cooling, the shell is chipped away



manually using machinery and the gates are cutoff using a band-saw. The parts were then bead blasted, washed with acid and then rinsed off. The students also were shown the quality control processes which involved spectrography and strength testing using a Universal Testing Machine. The critical dimensions were also measured at this stage.

Talk for B.E.Mechanical Students

Shri Vijayanand Sawant, Engineer, Ex-employee of Crompton & Greaves, delivered a talk on “Employee Expectation & Growth Profile” for the students of B.E. Mechanical on 29th March 2017. Shri Sawant informed the students on Manufacturing Industry perspective and expectations on recruitment of fresh graduates; What preparatory actions should a student undertake to be able to face technical personnel and manufacturing employees from industry. He shared with students, as a new recruit what experience he has undergone in the first six months in industry. He also shared the different quality tools C&G uses in Quality, Design and Production of Motors. Shri Sawant is presently working as Senior Engineer with Commscope and is responsible for new product introduction. He also spoke on how the knowledge gained in institute helps in performing in manufacturing sector. Shri Vivek Belokar, Associate Professor in Mechanical Engineering Department co-ordinated the event, which was attended by 42 students.



Talk on Total Productivity Management (TPM)

The guest speaker, Shri Dinesh Virginkar, Senior Production Manager, MRF Ltd., Usgao engaged one hour talk on Total Productivity Management (TPM) for T.E. Mechanical students on 31st March 2017. He dealt with various aspects of TPM and journey of TPM implementation at MRF, Usgao. The talk was co-ordinated by Dr. Shridhar Mhalsekar, Associate Professor in Mechanical Engineering Department.



Talk on Managing Business

Shri Nitin Naik, Proprietor, M/s. VSN Technologies, Porvorim, Goa who is a Chemical Engineer having experience of over 20 years in marketing and selling instruments and equipments to various industries in Goa held a workshop for B.E. Mechanical students on 03rd April 2017 on “Managing Business”. He spoke on the statutory procedure on starting an organization/business unit, how to arrange finance, raise loans and tie-up with foreign/Indian equipment manufacturer to be their distributor and service provider. He also spoke on developing customers and managing customer relationship. Shri Vivek Belokar, Associate Professor in Mechanical Engineering Department coordinated the event, which was attended by 48 students.



Talk on Marketing Management

Shri Vivek Belokar, Associate Professor in Mechanical Engineering Dept., who also holds additional charge as Assistant Director, Directorate of Technical Education, Porvorim for last 10 years and has served as Managing Director, Goa Education Development Corporation, held a talk on “Marketing Management” for B.E. Mechanical students on 04th April 2017. Shri Belokar who has completed his Executive MBA at Goa Institute of Management securing Gold Medal, explained to the students the various aspects on Marketing with detailed insights on Consumer Behaviour, building of Brand, Brand Attributes, Developing Strategic Business plan, Porters Five Forces analysis, Competitive advantage and Services marketing. A total of 44 students attended the talk.



Talk on Maintenance Engineering

A talk on Maintenance Engineering: Industrial Perspective was delivered by Shri Mahadev Verlekar, Reliability Engineer, Deccan Fine Chemicals (India) Pvt. Ltd. Corlim, Goa, on 6th April 2017. It was attended by the Final Year Mechanical Engg. Students. He introduced the practical aspects of Maintenance Engineering concepts with more emphasis on FMEA, TPM etc. Case studies were discussed with industrial applications. The event was co-ordinated by Prof. Suraj S. Rane, Professor in Mechanical Engineering Dept.



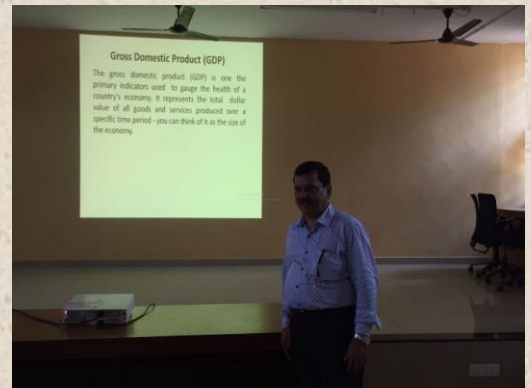
Talk on ISO in Industries

Shri Ameya Shirodkar, Quality Head, Turbocam India, Margao, Goa delivered a talk for the final year Mechanical Engg. Students, on ISO 9000:2015 on 6th April 2017. He spoke about this newly introduced ISO series clearly specifying the difference with existing series. He highlighted the methodology and importance of ISO in industries. The event was co-ordinated by Prof. Suraj S. Rane.



Talk on Budget for B.E. Mechanical Students

Prof. Vivek B. Kamat, Director of Technical Education, Government of Goa, addressed the students of B.E. Mechanical on 11th April 2017 on “Budget”. Prof. Kamat explained the concept and sources of the Expenditure and Revenue of the Government. He gave an overview of Capital, Revenue expenditure and explained the concept of Plan and Non Plan funds. He also introduced few functional aspects of revenue management of various department of the Government, the steps of drafting the Budget. He also explained the working of few important schemes of the Technical Education Department, Government of Goa. The session concluded with brief discussion on Income Tax rates to individuals as salaried employee and the various provisions for investment to save tax. Shri Vivek Belokar, Associate Professor in Mechanical Engineering Department co-ordinated the event, which was attended by 61 students.



Goa Fire Run

Directorate of Fire & Emergency Services, St. Inez, Panjim organized 'Goa Fire Run' on the occasion of National Fire Service Day on 14th April 2017. It was a 5 km and 10 km walk-run event to pay homage to Fireman Martyrs starting from Goa Fire Force training ground, Panjim. Shri Harichandra Chandekar, Assistant Professor in Mechanical Engineering Department and Yogesh Mahale, B.E. Mechanical student participated in the event for 10 km run.



Valedictory Function at Usgao

Shri Milind Sakhardande was Guest of Honour for Valedictory function of Summer Camp at Shishuvatika, Usgao, Barazan alongwith Shri Gajesh Usgaonkar and Dr. Anant Naik on 15th April 2017.



Saurabh Raiker Engagement Ceremony

Saurabh Raiker, Assistant Professor (Contract) in Mechanical Engineering Department, engagement ceremony took place on 16th April 2017 at 'The White House', Arlem-Raia, Salcete.



Workshop on Network Techniques for Project Management

Report by Dr. Mahesh Dhawalikar

A one day workshop on “Network Techniques in Project Management” was organised by Mechanical Engineering Department and Mechanical Engineering Students Association (MESA) of Goa Engineering College on 22nd April 2017, for the students of T.E. Mech and M.E. (Industrial) in the Seminar hall of IT Department. Dr. Mahesh Dhawalikar was the resource person. The workshop covered the concepts of network techniques related to project management and an introduction to software for project management. The practical aspects of project management were discussed. The workshop consisted of individual and group assignments including brain storming, problem solving, presentations of group work and hands-on session on software for network techniques. In all a total of 72 students from T.E. (Mechanical) and M.E. (Industrial) attended the workshop. A group of T.E. Mechanical students consisting of Amey Shirodkar, Aniket Pinge, Shreyas Parab, Yash Prabhudessai, Akash Patravali and Pratik Joshi helped in organizing the workshop.



Goa University Convocation 2017

Prof. Rajesh Prabhu Gaonkar and Prof. Suraj Rane attended the 29th Annual Convocation of Goa University on 25th April 2017. Prof. Rajesh Prabhu Gaonkar participated in the proceedings of convocation in the capacity of Dean, Faculty of Engineering while Prof. Suraj Rane participated in the capacity of Chairman Board of Studies, Mechanical Engineering.



Ex-GEC Professor Interaction with Students

Dr. A.M.K. Podiwal, Ex-Professor in Mechanical Engineering Department, GEC, also Ex-Principal of Engineering College, Calicut University, currently Director of Group of Institutions visited the department on 26th April 2017 and interacted with T.E. Mechanical students. Flt. Lt. B.R. Kulkarni, who worked with Prof. Podiwal for more than two decades at GEC, assisted in arranging the interaction.



Talk on Energy Management

A talk on Energy Management by Dr. Jagannath Hirkude, Head Mechanical Engineering Department, Padre Conceicao College of Engineering was organized by Prof. Vivek Belokar for final year Mechanical Engineering students on 26th April 2017. All the students opted for the final year elective “Energy Management” attended this talk.



MESSERGI Activity

The Mechanical Engineering Students' Association (MESA) had started an initiative in 2014, known as MESSERGI (Mechanical Engineering Students' Social and Educational Responsibility and Green Initiative). Under this initiative, an activity is taken up every year for the social cause. The MESSERGI members enthusiastically volunteered teaching school children Maths, Science and other subjects at Matruchaya Ashram every Sunday between 10 am to 1 pm.



“Spread happiness and create the difference the world deserves” With this aim in mind, team Spectrum in collaboration with Feeding India Goa Chapter celebrated its “Happy Faces” initiative on the occasion of International Day of Happiness on 20th March 2017. Spread joy and happiness and you’ll get it back tenfold. If you have not spread happiness yet today, do it now!

Report by Prof. Suraj Rane



Indian Institution of Industrial Engineering (IIIE) - Goa Chapter organized the 4th Prof. Uday Amonkar Memorial Lecture on 3rd May 2017. This is the birth anniversary of Prof. Uday Amonkar, who was a faculty in the Mechanical Engineering Department of Goa College of Engineering and was a veteran in Industrial Engineering field in the state of Goa. 3rd May is also the IIIE Goa Chapter foundation day.

The Memorial Lecture titled “Contemporary World Politics and the Emerging Global Order” was delivered by Professor Varun Sahni, Vice-Chancellor, Goa University. Professor

Sahni spoke on changing world economics and military powers. He also dealt with the current world order and the future scenario developing in a dynamic environment. The event began with the welcome address by Principal Dr. V. N. Shet. Later a short audiovisual presentation on the life of Prof. Uday Amonkar was screened. Dr. Suraj Rane, Chairman, IIIE-Goa Chapter introduced the guest speaker. On this occasion Dr. A. R. Naik, Ex-Head of Mechanical Engineering Department and Ex-Principal Goa College of Engineering was also felicitated. Prof. Vinay Shiroadkar compered the event and proposed the vote of thanks.



Farewell Function for B.E. Mechanical Students: Batch of 2017

The faculty of the department bid adieu to the final year students of 2017 batch, at a farewell function held in the college campus on 3rd May 2017. Shri B.S. Manohar Shankar, Associate Professor in Mechanical Engineering Department compered the function. Shri Suraj Marathe, Assistant Professor in Mechanical Engineering Department at Don Bosco College of Engineering was special guest for the function. Head of Mechanical Engineering Department, Prof. Rajesh Prabhu Gaonkar gave a motivational speech to the students citing anecdotes and inspirational stories. Other senior faculty in the department also encouraged the students and wished good luck in their future endeavours. The final year students shared their fond memories. The department faculty presented mementoes to the outgoing students of final year.







CII Entrepreneurship Boot Camp

The Confederation of India Industries and Young India (CII-YI) in partnership with CIBA & Mechanical Engineering Student Association (MESA) organized an Entrepreneurship Boot Camp in GEC Campus on 4th May 2017 for final year mechanical engineering students. The programme begun with a brief inaugural session by lighting of traditional lamp, during which Prof. Vinay shirodkar, Dr. Mahesh Dhavalikar, Shri Nikhil Khalap

were present. Later Shri Rajkumar Kamat, Director BNI Goa Chapter delivered an informative and motivational speech to the students citing his own experiences during the initial years of his career. Shri Anirudh Dempe, Young India CII Goa Chapter Chairman opened the session by setting the platform



for subsequent speakers. The first session was taken by Shri T.R. Vennugopal, Manager at CIBA who engaged the audience with a session on Business Model Canvas. During the session he mentioned about the benefits of SWOT analysis while starting a new business. Post a short tea break the session "Legal aspects of Business" was delivered by Shri Ajay Prabhu Gaonkar, Manager at Omkar Consultancy. The third session was delivered by Shri Tushar Sawant, Manager at CIBA, on formalities of setting up business & various schemes available for financial assistance where he briefed about "Chief Minister Rojgar Yojana" & "Prime Minister Employment Generation programme". Eventually Shri D.S. Prashant, General Manager at CIBA summed up the entire days learnings.

The boot camp ended with Dr. Mahesh Dhavlikar, Associate Professor in Mechanical Engineering Department, thanking everyone for showing their interest & encouraging the students to start business in Goa rather than relying on a job. Shri Leander Pinto was the programme coordinator from CII. The event was compered by Shri Ramdas Pandit, Assistant Professor (Contract) in Mechanical Engineering Department. The boot camp was organised under the guidance and support of Prof. Rajesh Prabhu Gaonkar, HoD Mechanical. Shri Gaurish M Samant, Assistant Professor (Contract) in Mechanical Engineering Department co-ordinated and took the initiative for the above event on behalf of Mechanical Engineering Department, while Shri Ramdas Pandit, Shri Saurabh Raikar, Shri Mangaldas Gaonkar, & Shri Sharath K. P. had also actively supported in organizing the event.



One Day Workshop on Career Guidance



Shri Jerves Pereira, Businessman, CEO, Goa Entrepreneurship Mentoring Services; Shri. Ajit Agranayak, Businessman, member of BNI; Shri Sunil Srivastava, Businessman, Carasid, Miramar and Shri. Andre Shackelton, Venture Capitalist held a workshop on “B.E...What Next?” for the students of final Year of five Engineering Colleges namely Goa College of Engineering, PCCE, Verna, AITD, Assagao, RIE& IT, Shiroda and DBCE, Fatorda at Academic Auditorium GEC on 5th May 2017. The speakers spoke on various options of employment including campus placement by industry and its present scenario, Apprentice through Board of Apprentice Training, Government of India, Starting business/Entrepreneurship, the concept of Start-up and Make in India initiative of the Government of India. The speakers enlightened the students with their experience and Technical expertise gained by them during their work/business tenures. They elaborated on the various schemes of Finance for building Entrepreneurship and Start-ups. Shri. Vivek Belokar, Associate Professor in Mechanical Engineering Department, coordinated the workshop under MESA held at Old Library Hall, GEC, which was attended by 130 students.

ISHRAE GEC Chapter Activity

ISHRAE (Indian Society for Heating, Refrigeration & Air Conditioning) GEC Chapter conducted/ participated in the following activities during January to June 2017.

- ISHRAE GEC chapter organized a field visit to Rajiv Kala Mandir on 7th February 2017. In this visit the basic air conditioning systems, air distribution system, Refrigeration cycles with chillers and latest technologies were shown.
- Members of ISHRAE GEC chapter attended one day workshop on “Recent Trends in Refrigeration” conducted at Don Bosco College of Engineering on 11th February 2017. Dr. K. N. Patil, SDMCET, Dharwad gave a talk on “Air Conditioning in Green Building”, Dr. K. B. Kulkarni spoke on “Maintenance of Airconditioning Systems and Equipments” and Shri Prakash Satpal spoke on “Production in Pharmaceutical Industry”.
- Talk on “Job Opportunities in HVAC Industry” was delivered by Shri Manoj Pandey on 21st March 2017. During the occasion Dr. K.B. Kulkarni delivered a talk on “Introduction to Air Conditioning System”.

Interaction during Machine Installation for IIT Goa



Prof. Rajesh Prabhu Gaonkar interacting with Shri Rajiv Mashru, Ojasvi Corporation, Modern Technology Tools, Gujarat during installation of desktop multipurpose machines procured for IIT Goa.

Field trip to Crompton Greaves and Vaibhav Industries, Kundaim

Report by Pratik Joshi, T.E.Mech

On 6th May 2017, the T.E. Mechanical students were taken for a field trip to M/s Crompton Greaves Industry and a small scale box manufacturing unit, located at the Kundaim Industrial Estate. Both the units had a lot more to offer than our expectations. We arrived at the Crompton Greaves unit at around 10.00 a.m. in our college bus, and immediately on arriving, we all were told to register at the security desk. The unit manufactures electric induction motors for different industries. The components made for each industry were different and had very close tolerances, which were nothing more than few microns. All the motors were very well specified and were specifically meant for a purpose. Initially we were taken to the furnace where the aluminium body parts were being produced. We had a great opportunity to see a working furnace and different machines like drilling machine, actuation systems, periodically controlled systems, weight addition machines etc. We



we were also able to see assembly line systems and relate it to the product based and process based concepts of operations management. It was a huge plant, which employed a large number of people and was very well managed. The management takes care of its operations, technicians, trainees and most importantly the environment in which the people work. The personnel manager told us the basic expectations that the industry has from freshers like us.

Thus around 11.15 a.m. we moved ahead to the Box manufacturing unit located a few metres away from Crompton Greaves. We were welcomed by the Manager of the plant. It was a very small unit, which produced boxes for paint cans and other commodities. It employed very few employees and had less machinery to be taken care of. It manufactured corrugated boxes and employed various machines for the same. They briefly explained to us all the machines. Thus finally we thanked



him for his valuable time and after a group photo we returned to our college.

We the students of T.E. Mechanical were accompanied by Shri. Gaurish Samant, Assistant Professor (Contract) in Mechanical Engineering Department. It was a great opportunity for us to learn something new and something out of the books for a change. At around 12.15 p.m. we reached back to the college and after a fruitful day at industry, ended with some light refreshments.

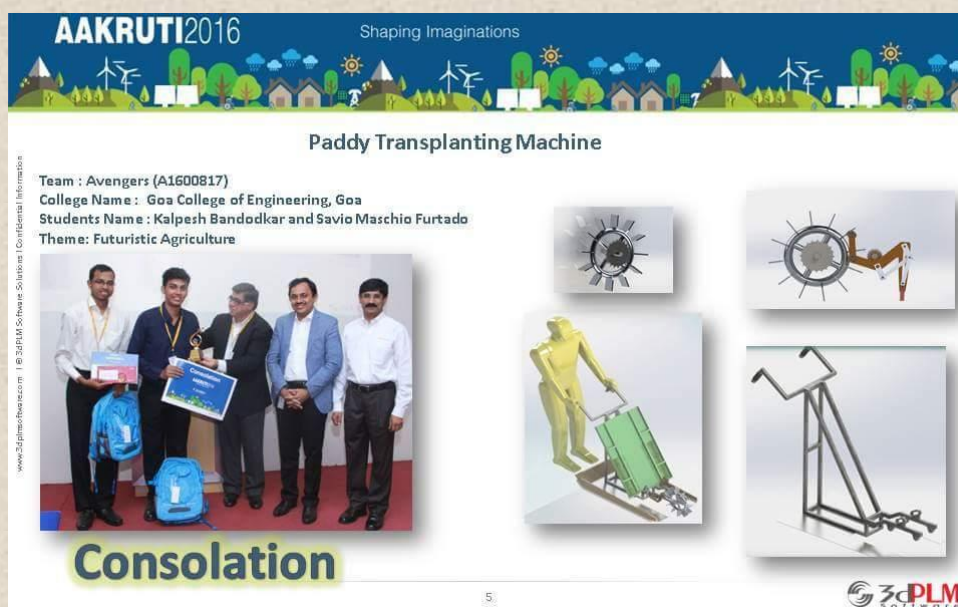
International Yoga Day



On the occasion of International Yoga Day on 21st June 2017, a programme was conducted in GEC main building. Yogasanas were performed by all present under the guidance of Yogacharya Jaywant Naik from Om Nitya Divya Yoga, Kasamshel, Bethoda, Dr. Mahesh Dhawalikar and Shri Harichandra Chandekar from Mechanical Engineering Department actively participated in the yoga programme.

Solidworks® Modeling Contest

All India Nationwide Contest “Aakruti 2016” for design using Solidworks modeling software by Dassault systems was held on 3rd October at 3DPLM solutions Ltd, Pune. Our students Kalpesh Bandodkar (T.E Mech) and Savio Maschio Furtado (T.E Mech) secured consolation place after competing against 261 teams. The design was based on the theme Futuristic Agriculture and we had designed a paddy transplanting machine.



Papers Presented/ Published/Talks by faculty

- Vineet Kora Varghese, Milind Sakhardande and Rajesh Prabhu Gaonkar, “Raw Material Inventory Management in Tyre Industry: A Case Study”, National Conference on Recent Trends in Mechanical Engineering, Walchand College of Engineering, Sangli, July 2016.
- Gaurav Desai and Suraj Rane, “Optimization of Equipment’s Preventive Maintenance Replacement Time in a Phosphate Fertilizer Plant”, Proceedings of International Conference on Smart Strategies for Digital World - Industrial Engineering Perspective, Nagpur, 21st - 22nd October 2016.
- Rupesh Kumtekar and Suraj Rane, “Quality and Reliability Issues in Shipbuilding Industries”, Proceedings of International Conference on Smart Strategies for Digital World - Industrial Engineering Perspective, Nagpur, 21st to 22nd October 2016.
- Vishwesh Singbal and Milind Sakhardande, “Costing of Imported Fertilizer Supply Chain in India using Activity Based Costing”, International Conference in Emerging Trends in Mechanical Engineering, Hyderabad, November 2016.
- Prashant Misal, Milind Sakhardande and Rajesh Prabhu Gaonkar, “Facility Location Using Fuzzy TOPSIS: Indian Automotive Industry Case”, International Conference in Emerging Trends in Mechanical Engineering, Hyderabad, November 2016.

- Varun Mahabal, Milind Sakhardande, “Application of Unified Optimization Methodology in Supply Chain for Production Planning”, International Conference in Emerging Technological Innovations in Mechanical Engineering, Bengaluru, May 2017.
- V.Sawant, M.Dhawalikar, P.K.Srividhya and V.Mariappan, “Reliability Analysis of Induction Motor Using Stochastic Modeling”, International Journal of Scientific Research, 14(1), 2017, 366-373.
- Naves Shirodkar and Vinay Shirodkar, “Factors Effecting Satisfaction of Elevator Customers in Goa: Their Measurement and Analysis” International Conference on Applied Science Engineering and Technology (ICASET-17) held at Sri Sairam College of Engineering, Anekal from 18th to 19th May 2017.
- Amol Vasta and Vinay Shirodkar, “An Efficient Heuristic for Flow Time Minimization in a No-Wait Flow Shop Scheduling Problem” International Conference on Emerging Technological Innovations in Mechanical Engineering (ICETIME-17) held at R R Institute of Technology, Bengaluru from 26th to 27th May 2017.
- Prof. Rajesh Prabhu Gaonkar delivered an invited talk on “Multi-Criteria Decision Making Problems Investigation- Fuzzy Sets & Evidential Reasoning Perspective” at the Joint International Conference on Interdisciplinary Research & 8th International Conference on “Quality, Reliability Engineering, Infocom Technology and Business Operations (JIRICQRIT – 2017)”, organized by Centre for Interdisciplinary Research, Amity University & Society for Reliability Engg, Quality and Operations Mgmt. (SREQOM) and co-organized by Lulea University of Technology, Sweden, from 8th to 10th February 2017, held at Greater Noida.
- Prof. Suraj Rane delivered an invited talk on "Integrated Design approach based on Reliability-based design & Design for Six Sigma" at Joint Int. Conf. on Interdisciplinary Research & 8th Int. Conf. on Quality, Reliability, Infocom Technology and Business Operations held at Amity University, Noida from 8th to 10th February 2017.



Prof Suraj Rane and Prof Rajesh Prabhu Gaonkar seen with Prof Sunil Kumar Khatri, Director, Amity Institute of Information Technology also Additional Director, Amity Directorate of Engineering & Technology, Noida.

- Robin Aby Mathews and Suraj Rane, Value Stream Mapping-Strategy for Productivity Improvement, International Journal of Engineering Research in Mechanical & Civil Engg. , 2(4), April 2017, 124-128.

- Harichandra Chandekar, Vikas Chaudhari, Jayesh Saboo and Adlete Mascarenhas, “Effect of Chemical Treatment on Thermo-Mechanical Properties of Jute-Polyester Composite”, International Conference on Recent Advances in Materials, Mechanical and Civil Engineering, Marri Laxman Reddy Institute of Technology and Management, Dundigal, Hyderabad on 1st and 2nd June 2017.
- Raghavendra Naik and Shridhar Mhalsekar, “Vibration Attenuation of a Nonlinear Oscillator by using the Bound on a System”, Mechanics Research Communications, In Press.

Workshop Attended by Faculty

Shri Harichandra Chandekar attended two week AICTE-QIP Sponsored short term course on “Advanced Material Science and Engineering” organized by Department of Mechanical Engineering, Coimbatore Institute of Technology, Coimbatore from 15th to 28th May 2017. Various advanced topics in the field of Material Science was covered ranging from Metallography to Composites



by expert faculty from IIT Bombay, IIT Madras, IISc Bangalore and other reputed institutions. Apart from lecture sessions, few laboratory sessions were also included alongwith three industrial visits.

Workshop on Project and Sponsorship

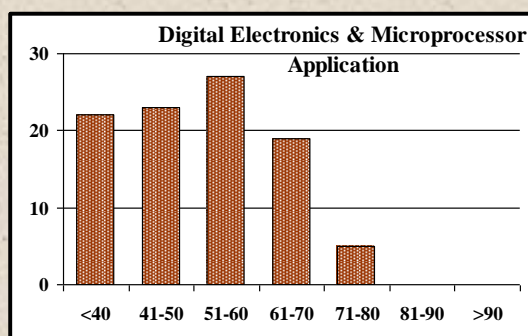
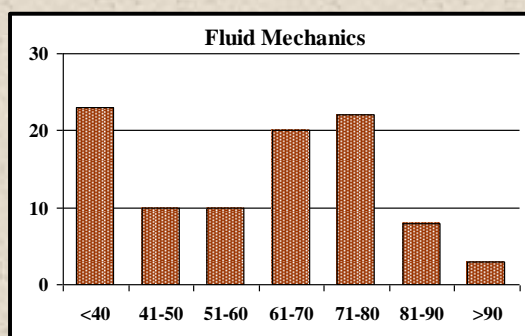
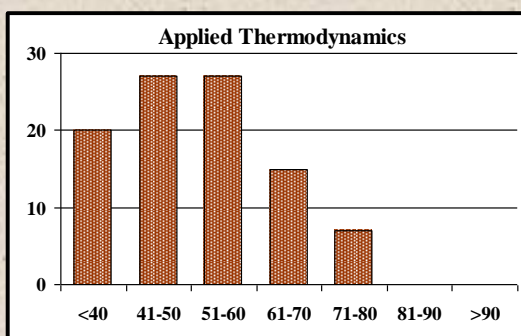
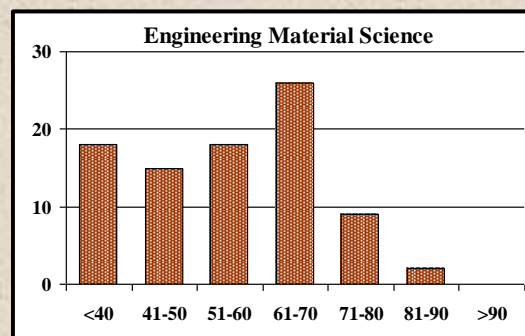
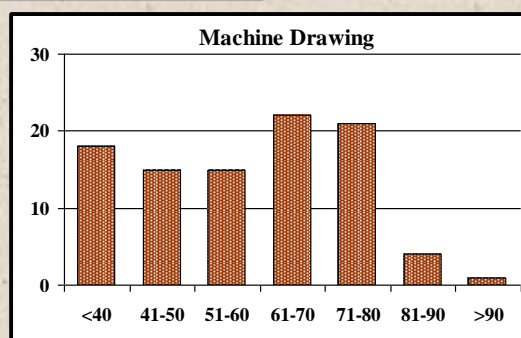
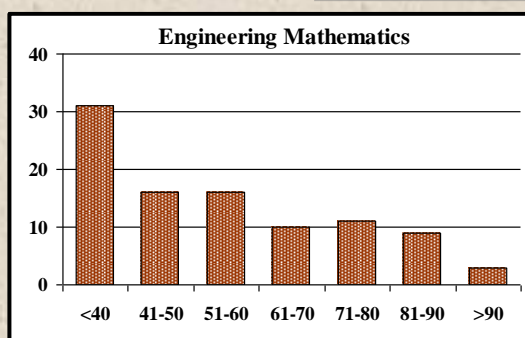
Shri Andre Shackelton, Head of Start up group, Goa and Venture Capitalist along with Prof. Raghuveer Vernekar, Ex-Chairman, Goa Board, Retd. Faculty from Goa Institute of Management and presently Chairman, Education Committee, GCCI held a workshop on “Project and Sponsorship” for third year engineering students of all engineering disciplines.



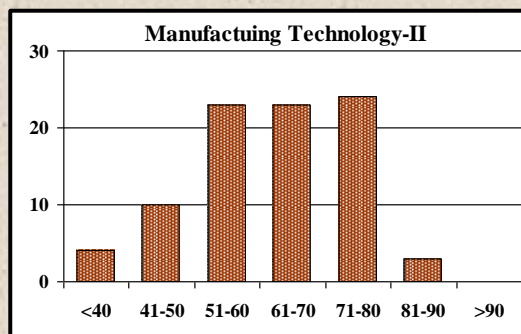
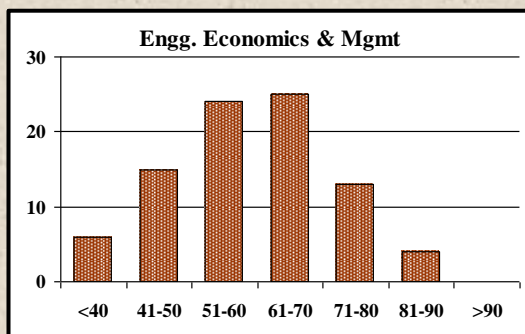
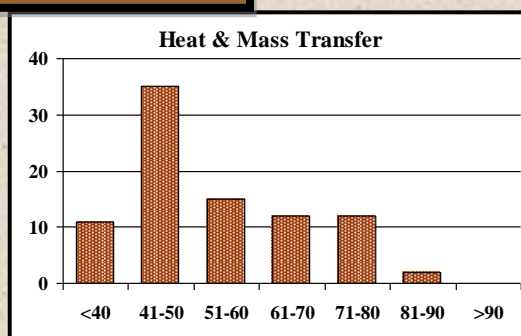
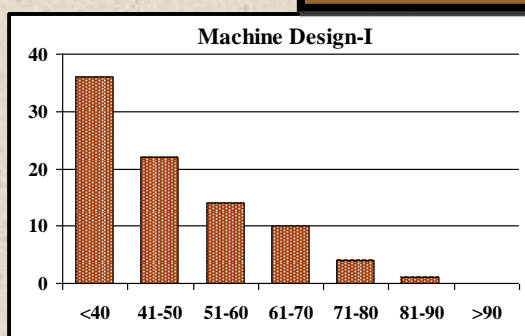
The workshop discussed various aspects on selection of the problem in Industry and developing methodology for proposing viable options/solutions. They spelled out the technical support students can expect from industry and professional experts via associations with GCCI. The workshop also detailed out the possible modes of sponsorship from industry in terms of purchase of equipment machinery and financial supports. The procedure for selection of projects by industry was described. Shri Vivek Belokar, Associate Professor in Mechanical Engineering Department, coordinated the workshop held in two sessions of 2 hours each, which was attended by 146 students.

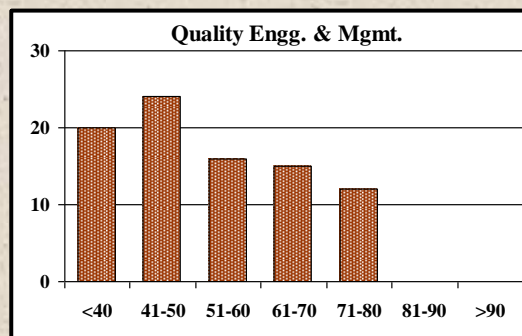
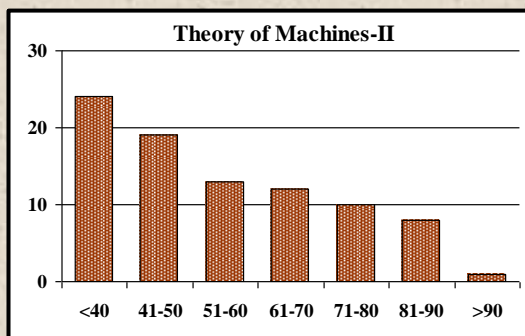
Result Analysis Nov/Dec 2016 (Number of student's v/s Range of marks)

SEMESTER III

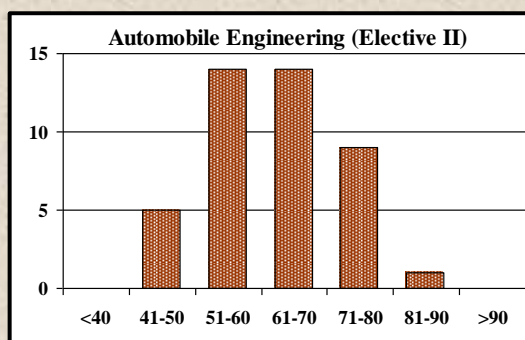
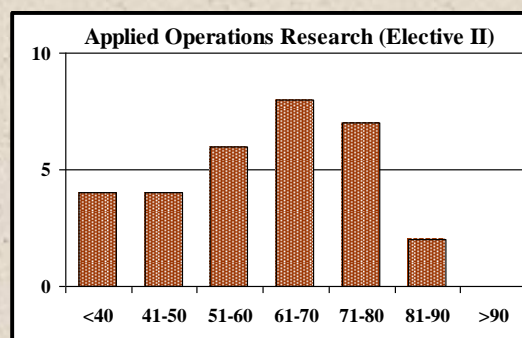
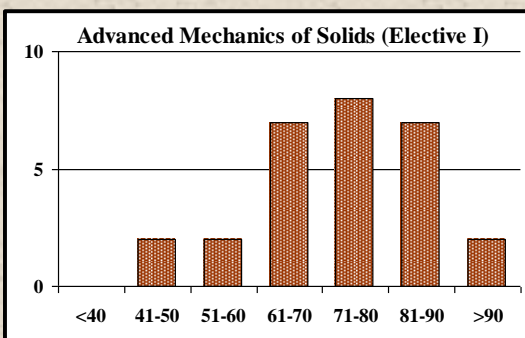
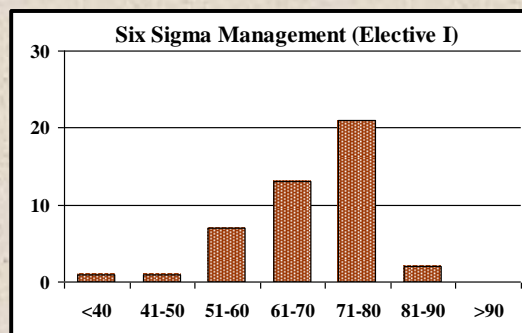
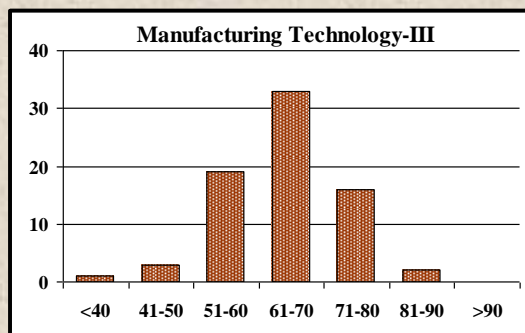
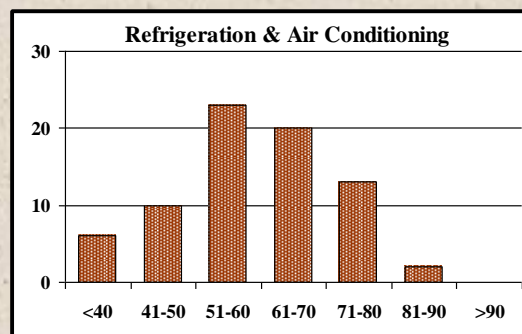
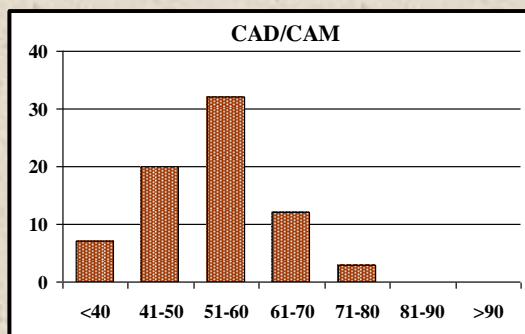


SEMESTER V





SEMESTER VII



Student Sports Section

For the inter-collegiate tournaments conducted by Sports Section, Goa University, following students from Mechanical Engineering Department represented the college. The sports conducted during the even semester (2nd phase) of the academic year 2016-17 include Cricket, Volley ball, Baseball and Basket ball.

Sr.No.	Name	Event	Class
1	Piyush Chavan	Basketball, 2 nd round	F.E.Mech.
2	Vignesh Usapkar	Volleyball, 2 nd round	S.E. Mech.
3	Ajay Gaude	Volleyball, 2 nd round	S.E. Mech.
4	Anmol Shukla	Basketball, 2 nd round	S.E. Mech.
5	Sanket S.Korgaonkar	Cricket, Quarter final	T.E. Mech.
6	Shankar L. Velip	Cricket, Quarter final	T.E. Mech.
7	Shaheen Surlaker	Cricket, Quarter final	T.E. Mech.
8	Sohan S. Naik	Cricket, Quarter final	T.E. Mech.
9	Shreyas Shet	Baseball, Semi-final	B.E. Mech.
10	Yash Dalal	Cricket, Quarter final	B.E. Mech.

Internship Data for Jan 2017 of T.E.Mechanical Students

Name	Company Name	Period	
Karimi Sayyed Abdurrashid	Zuari Agro Chemicals Ltd., Zuarinagar	2-Jan-17	17-Jan-17
Bepari Imatiaz Mohammed	Zuari Agro Chemicals Ltd., Zuarinagar	2-Jan-17	17-Jan-17
Hiremath Akash S.	Zuari Agro Chemicals Ltd., Zuarinagar	2-Jan-17	17-Jan-17
D'Costa Jason	Zuari Agro Chemicals Ltd., Zuarinagar	2-Jan-17	17-Jan-17
Saeel Gawas	Chowgule Industries Pvt. Ltd., Maruti Suzuki showroom, Panjim	2-Jan-17	14-Jan-17
Pranabh Sawant	M/s Saipoint Cars Pvt. Ltd.	2-Jan-17	14-Jan-17
Amey Shirodkar	M/s Saipoint Cars Pvt. Ltd.	2-Jan-17	14-Jan-17

Internship period was from 26th December 2016 to 16th January 2017. Students starting internship in December 2016 not included in the above data.

Placement Data 2016-17

Name of student	Placement
Devendra Bhat	Quest Global
Mohan Naik	Tata Advanced Systems
Vibhav Bhat	Wipro, Infosys
Sandeep S	Infosys
Narahari Akerkar	Infosys
Sarvesh Shenai	Infosys

Results awaited for full time job at Kakode Trading and apprenticeship positions at MRF, Bosch, JSW Infrastructure and Optel.

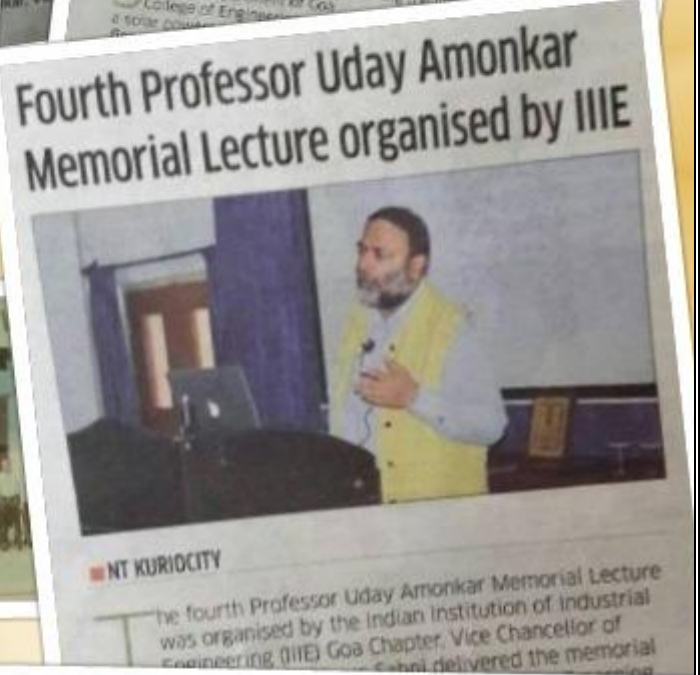
Final Year Undergraduate Student Project (2016-17)

Group	Roll No	Name	Title	Guide
01	131102008	COELHO TONI XAVIER	Multi Degree Suspension Drive System	Harichandra Chandekar
	131102023	GAUDE JAYESH MANOHAR		
	131102036	NAIK ANIKET ASHOK		
02	131102004	BHAGAT ANAY MOHANDAS	Coconut Plucking Robot	Harichandra Chandekar
	131102001	AKERKAR NARAHARI		
	131102057	SJET SHREYASH SUBHASH		
	131102009	COLACO SWEZEL URMINDA		
03	131102002	BANDODKAR RISHAB	Improvisation of Wind Tunnel and Model Testing	B. S. Manohar Shankar
	131102041	NAIK MOHAN DEEPAK		
	131102050	RODRIGUES VALENKO		
	131102048	PHADTE SHUBHAM KISAN		
04	131102061	SINAI BHANGUI AKHIL	Design and Development of Paper Recycling Machine	Mahesh Caisucar
	131102031	KOSSAMBE VAIKUNTH		
	131102049	PHEKU BIRENDRA SHARMA		
	131102068	KOMARPANT ANGAR		
05	121102042	NAIK SHARAYU SATYAWAN	Process Improvement using Six Sigma approach in Locks Manufacturing Plant	Dr. Suraj Rane
	141202004	CHOUGULE SUSHANT		
	141202008	GAWAS DATTA RAMA		
	141202011	MHALDAR SURAJ SURESH		
06	131102015	DESSAI ANISH RAIU	Design and Fabrication of Hydraulic Coconut Dehusker	Dr. Akshay Nigalye
	131102018	FERNANDES ASHLEY		
	131102022	GAONKAR SHOUNAK		
	141202003	CHIPKAR DARPAN		
07	131102006	BHAT DEVENDRA DATTA	Design and Fabrication of Multitasking Flexible Vegetable Chopper for Culinary Applications	Dr. Akshay Nigalye
	131102007	BHAT VIBHAV VASUDEV		
	131102011	DALAL YASH VIKAS		
	131102032	KULKARNI AKASH		
08	131102025	GIANANI YASH SANJAY	Dynamic Vehicle Routing: A Case Study in Beverage Industry	Milind Sakhardande
	131102040	NAIK MAMLEKER SAIDATTA		
	131102047	PHADATE CHAITANYA		
	131102056	SHENAI SARVESH NAGESH		
09	141202007	GAUNS DESSAI ASTITV	Design and Fabrication of Footstep Energy Generation Model	Flt. Lt. B. R. Kulkarni
	141202005	D'SOUZA LENNY PETER		
	141202002	BARRETO RAYAN MYRON		
	141202006	GADEKAR SAIRAJ SURBA		
10	131102058	SJETKAR KESHAV RAMESH	Automatic Manual Transmission for a Two-Wheeler	Dr. Raghavendra Naik
	131102065	VISHWAKARMA NILABH		
	131102052	SAVANT SAURABH		
	131102046	PETHKER TEJAS SADANAND		
11	131102027	HIREMATH MRITUNJAY	Total Productive Maintenance(TPM) in Pharmaceutical Industry	Dr. Suraj Rane
	131102030	KENY SHAURYA RAMNATH		
	131102026	GOMES GLESON ROSARIO		
	131102029	KAMAT ADITYA UDAY		
12	131102039	NAIK KIRAN KANTA	Application of Genetic Algorithm in Manufacturing processes	Dr. Vinay Shirodkar
	131102038	NAIK KETAN SUBHASH		
	131102035	NAIK ADITYA		
	131102005	BHAMAIKAR GANESH		
13	131102054	SHAILESH SARASWAT	Smart Parking System	Dr. Raghavendra Naik
	131102063	SUSIM SINGH		
	131102010	COUTINHO KILTON		
	131102019	FERNANDES ASPRILLO JOEVITO		

14	141202009	HARRY ANDREWS DANISH	Improvisation in Chaffer Cutting Process	Dr. Shridhar Mhalsekar
	131102062	STALIN RAYMOND PAROYDS		
	121102016	FERNANDES MACKLY		
	121102037	MIRANDA SHELTON		
15	131102014	DESSAI ADISH RAJAN	Implementing Lean Manufacturing process on Horizontal and Turn milling machines at NETZSCH	Dr. Vinay Shiroadkar
	131102013	DESHPANDE SHUBHAM		
	131102016	DESSAI DIPESH DATTADAS		
	131102012	DASILVA ANTHONY MIGUEL		
16	131102003	BANDOLKAR NANDKISHORE	Enhancement of Boiler Performance and Analysis	Flt. Lt. B. R. Kulkarni
	131102020	FULKAR AKASH SHIVA		
	131102051	SANDEEP S.		
	131102053	SAWANT BHUSHAN		
17	141202013	SAMANT SAMEER ANANT	Design and Fabrication of online liner cleaning mechanism on Banner Cutting Machine	Gajesh Usgaonkar
	131102059	SHETYE VISHNU/ PRANAV		
	141202012	RAJAT FONDEKAR		
	141202010	MAJIK YESHWANT SUKADO		
18	121102063	TANU PADUNG	Space Management & Material handling in fan division	Dr. Mahesh Dhawalikar
	111102051	PATEL SHREYAS		
19	131102033	YOGESH MAHALE	Energy Optimisation through Rationalisation of Compressed Air Network	Dr. Shridhar Mhalsekar
	131102044	RAJAT NARULKAR		
	131102060	SUDAM SHIRODKAR		
	131102021	SARVESH GAONKAR		

M.E. Industrial Engineering Dissertation (2016-17)

Sr. No.	Roll No	Name	Dissertation Title	Guide
1	142107004	GAUNS AMEY SHIVAJI	Multi criteria decision making under condition of uncertainty	Mahesh Caisucar
2	142107005	GOPU C.	Investigating quality parameters of chlorobutyl rubber using fuzzy approach & neural network techniques	Dr. Akshay V. Nigalye
3	142107006	KHAIRNAR SHRUTI	Optimization of combined energy usage	Milind J Sakhardande
4	142107007	LAMBOR GAMGARAM BABU	Some studies on six sigma approach for non-normal process	Dr. Suraj Rane
5	142107011	PRABHU GAUNKER VALLABH	Service Quality Studies in Hospitality Industry	Dr. Rajesh Prabhu Gaonkar
6	142107013	SALKAR PUNDALIK BHUSHAN	Analysis of Musculoskeletal Disorders Using Bio-mechanical Approach	Dr. Mahesh Dhawalikar
7	142107014	SAWANT VIRAJ VINAYAK	An Effective Heuristic to Solve Assembly Line Balancing Problem	Dr. Vinay Shiroadkar
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Prof. Varun Sahni, Vice-Chancellor, Goa University at GEC

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