



NIRZER

NEWSLETTER OF MECHANICAL ENGINEERING DEPARTMENT



Events & Activities

Date	Event
19 th Jan 2018	Science Film Festival
27 th Jan 2018	IIIE Foundation Day
30 th Jan 2018	Talk on “Quantum Mechanics for Self Development”
2 nd to 9 th Feb 2018	IIIE Graduateship Examination
11 th Feb 2018	Director General of IIIE visits Goa Chapter
7 th March 2018	Talk on “Substance Abuse & Its ill effects on health”
8 th March 2018	Financial Education Workshop
8 th March 2018	Session on Entrepreneurship Development
14 th March 2018	Workshop on “Network techniques in Project Management”
23 rd March 2018	B.E. Mech visit to Saligao Waste Treatment Plant
24 th March 2018	S.E. Mech visit to Verna Industrial Estate
27 th March 2018	Lecture on “Airplane Gas Turbine Engines”
28 th March 2018	Talk on “ Smooth Transition from a Student to a Professional”
3 rd May 2018	Prof. Uday Amonkar Memorial Lecture
3 rd May 2018	B.E.Mechanical Engineering batch 2018 Farewell

Department News

- Prof Vinay Shirodkar takes over as Head of Mechanical Engineering Department from 02nd January 2018.
- Prof. Rajesh Prabhu Gaonkar joins Indian Institute of Technology, Goa from January 2018.
- Dr. Jagannath Hirkude appointed EdCIL observer for Navodaya Vidyalaya Samiti Examinations conducted on 12-14 January 2018.
- Dr. Shridhar Mhalsekar and Shri Harichandra Chandekar engage practicals for IIT Goa B.Tech Students (Even term: Jan to April 2018) in the course Fluid Mechanics and Solid Mechanics respectively.

- Prof. Akshay Nigalye attends Tendering workshop at NITTTR, Goa Extension Centre from 15th to 17th January 2018.
- Prof. Vinay Shirodkar, Prof. Akshay Nigalye, Prof. Suraj Rane and Dr. Jagannath Hirkude attended Interactive session (meeting) with Nobel Laureates on 2nd February 2018 at Kala Academy Panaji.
- Dr. Jagannath Hirkude nominated as Technical Expert for Joint Inspection of Units under Rate Contract Preferential Purchase Scheme (RC-PPS) to GHRSSIDC Goa.
- Dr. Jagannath Hirkude nominated as Chairman of stock verification committee for Electrical and Electronics Engineering Department 2018.
- Dr. Raghvendra Naik attended "Workshop to Prepare Course Material" from 19th to 23rd March 2018 at NITTTR, Goa Extension Centre, Porvorim.
- Our T.E.Mechanical students namely Gavin D'Mello (Violin), Govardhan Parker (Guitar), Savio Furtado (Cajone), Shubham Kale (Vocals) and S.E.Mechanical student Kedar Dicholkar (Vocals) are part of the GEC music club.
- Prof. Suraj Rane delivered talk on "Data Analysis using MINITAB" at One Week TEQIP III AICTE-ISTE Short Term Training Programme on Research Tools & Techniques held at Don Bosco College of Engineering, Fatorda, on 10th May 2018.
- Dr. Jagannath Hirkude delivered an expert talk on "Energy Audit in Building" at Don Bosco College of Engineering, Fatorda on 11th July 2018
- Dr. Jagannath Hirkude was appointed as the 'Senior Supervisor' for Goa University Bachelor of Engineering, May/June 2018 end semester Examination.
- Dr. Raghvendra Naik was the co-ordinator for the conduct of Internal Test Examination.
- Saurabh Raikar, Sanket Shet, Mallikarjun Gurav and Annapurna Hosalli were teaching faculty (contract) in the department during January to May 2018.

Science Film Festival

Science Film Festival was held by Vigyan Parishad wherein Science Films were screened in the presence of Eminent Scientists in INOX at Panaji. Opportunity was provided to the participants to interact with the scientists after screening of the films.

62 students of Goa College of Engineering (From different branches) registered at GEC and were sent to participate in the film festival on 19th January 2018. The activity was co-ordinated by Dr. Mahesh Dhawalikar and the students were accompanied by faculty members, Dr. Raghavendra Naik from Mechanical Engineering Department and Ms. Yogita Karkhanis from Mining Engineering Department.

IIIE Foundation Day

Goa Chapter commemorated the IIIE foundation day on 27th January 2018. Dr. Santosh Rane, Associate Professor, Sardar Patel College of Engineering, Andheri, Mumbai was the guest speaker for the occasion. The event began with welcome address by Prof. Vivek Kamat, President IIIE Goa Chapter and Director of Technical Education, Government of Goa. Dr. Santosh Rane spoke on the topic “Rise of Industrial Engineering and Role of IIIE”. He highlighted the pivotal role played by Indian Institution of Industrial Engineering over the years and its various activities in the country. He presented the journey of Industrial Engineering from its earliest days till date. He also dealt into IE practices adopted by big companies for improving their efficiency and effectiveness. Later he presented a case study on Internet of Things and its relevance to Industrial Engineering. Dr. Suraj Rane, Chairman IIIE Goa Chapter introduced the speaker Dr. Santosh Rane. Dr. Vinay Shiroadkar, Secretary, IIIE Goa Chapter, proposed the vote of thanks. The talk was attended by IIIE Goa chapter members and students. The event was compered by Mr. Mahadev Verlekar, IIIE member.



Talk on “Quantum Mechanics for Self Development”

A Workshop on “Quantum Mechanics for Self Development” was conducted by Shri. Quanto Shivo, a well known personality in the field of spirituality on 30th January 2018, from 02:30 pm onwards in the academic seminar hall, GEC. The lecture was organized for SE, TE and BE students from Mechanical Engineering discipline. Quanto Shivo is a graduate in Mechanical Engineering from MNIT Jaipur and is a pioneer of new methodology of spiritual awakening “Quantology”. He is a well known name in spiritual counseling and has a huge list of beneficiaries. It was indeed a moment of pride to have a personality of his stature to address the future flag bearers of Mechanical Engineering Department of GEC.



During his discourse Shri. Shivo uncovered the various facets of Quantology and its importance in self development and clearing the subconscious mind leading to cleansing of stresses, negativity and achieving happiness. He also introduced a new method of offering subconscious to super conscious which leads to new creation. He further took a session on Quanto Meditation giving a practical insight to his theory. The program started with the address by the Principal Dr. V. N. Shet. He stressed the need for students to imbibe the methods of self development through spirituality. Dr. Vinay Shiroadkar, HMED urged the students to rise above physical plane and reap the benefits of subconscious awakening through the practice of meditation. As a mark of respect, love and appreciation Shri. Quanto Shivo was felicitated by the Principal with Shawl and Shrifal and a memento. Dr. Akshay V. Nigalye proposed the vote of thanks. Prof. Gajesh G.S. Usgaonkar and Prof. Mahesh Caisucar planned the entire program and organized the event successfully. Prof. Milind J. Sakhardande anchored the event. Around 250 students, faculty and staff of GEC were the beneficiaries of this event.



IIIE Graduateship Examination

Report by Prof. Gajesh G S Usgaonkar

IIIE Graduate Ship Examination was conducted by IIIE, Goa Chapter at GEC from 02nd Feb, and 2018 to 09th Feb, 2018. 03 candidates answered Preliminary, 10 answered Section- A and 06 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 three hours duration. The timing for the sessions was in the evening from 6 pm to 9 pm on working days. On Sunday the timing was from 10 am to 1 pm. Prof. Gajesh G. S. Usgaonkar, Associate Professor, Mechanical Engineering Department was the Chief Exam Superintendent for this exam, assisted by Prof. Saurabh Raikar, Assistant Professor (Contract), Mechanical Engineering Department. The examination was conducted smoothly under the guidance of Prof. Milind J. Sakhardande, Associate Professor, Mechanical Engineering Department, Dr. Suraj Rane, Professor, Mechanical Engineering Department and Chairman IIIE, Goa Chapter and Dr. Vinay Shirodkar, Head of Mechanical Engineering Department. Many IIIE members from the Institute and Industry took active participation in smooth conduct of exam and were also involved in the invigilation work. 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 was very convenient for them. Else they would be forced to apply for 15 days leave and go to Pune or Bangalore for answering the exam.

Director General IIIE visits Goa Chapter

Report by Prof Suraj Rane

Prof. (Dr.) Bhaskar Bhandarkar, Director General IIIE visited Goa Chapter at Goa College of Engineering (GEC), Farmagudi, Goa on 11th February 2018. He was welcomed by Dr. Vinayak N. Shet, Principal, GEC, in the presence of Chairman Dr. Suraj Rane, Secretary Dr. Vinay Shirodkar, Treasurer Mr. Vinayak Nayak and council members Mr. Mahadev Verlekar and Mr. Pareesh Salgaonkar. Dr. Suraj Rane briefed Prof. (Dr.) Bhandarkar



on the activities undertaken as well as upcoming activities planned by the chapter at the state level and national level. Dr. Vinayak Shet extended his support to the IIIE activities at GEC and expressed his willingness to host national event of IIIE at GEC in future. Prof. (Dr.) Bhandarkar briefed the members about the National Conference and IIIE Convention scheduled to be held in Bhubaneswar from 27-30th September 2018. He encouraged the council members to undertake membership drive. Mr. Vinayak Nayak discussed the status of chapter financial matters with Prof. (Dr.) Bhandarkar. Dr. Vinay Shirodkar thanked Prof. (Dr.) Bhandarkar for making his presence felt at the chapter and apprising the members on latest developments at national level.

Talk on “Substance Abuse and Its ill Effects on Health”

An enlightening talk on “**Substance Abuse and Its Ill Effects on Health**” by Dr. Shekhar Salkar was organized by Mechanical Engineering Department of Goa College of Engineering at their Academic building hall on 07th March 2018 from 3.00 pm to 4.00 pm. This was followed up by active interaction with a full house crowd of around 200 students of undergraduate Mechanical Engineering, staff and college faculty. During his impactful and passionate talk delivered in a unique and humorous fashion, Dr. Salkar presented the circumstances and temptations that lead to youth embracing the consumption of Tobacco, Alcohol and Drugs. He called upon the gathering to not only remain away from such temptations but gave some key points to faculty and students to identify any one going astray, so that remedial actions could be initiated in time. He dwelled upon the effects of substance abuse on the personal, societal and environmental front and also the loss to national economy. He specifically focused on the financial, emotional and mental chaos that is brought about by substance consumption. He also presented the mortality statistics arising out of substance abuse. He presented some case studies to the gathering and also some his experiences right from his student days highlighting the circumstances leading to substance abuse and ways and means of avoiding these. The program started with the welcome address by the Principal Dr. V. N. Shet. Dr. Vinay Shirodkar, Head of mechanical Engineering Department addressed the students about the value addition activities being carried out by the Department and stressed on the need for organizing such talks. The program was coordinated by the Mechanical Engineering Department under the guidance of Prof. Gajesh Usgaonkar and Prof. Mahesh Caisukar. The program was anchored by Prof. Milind Sakhardande, a faculty from Mechanical Engineering Department. The program ended with vote of thanks proposed by Dr. Akshay Nigalye. The program was highly appreciated by the students, staff and faculty.



Financial Education Workshop

A seminar on “Financial Planning for Young Investors” was organized by Securities and Exchange Board of India (SEBI) on 8th March 2018 from 11.00 am to 1:00 pm for B.E.Mechanical students in Information Technology Department auditorium. The speaker for the occasion was Shri Rajendra Dalvi from SEBI, FET, Goa. He was accompanied by his colleague Smt. Sukanta Naik. The talk began by saying that of the total income we earn leaving aside the expenditures atleast 20% of the income should be saved. The saving should be such that we gain by offsetting the inflation rate (our returns should not be nil because of inflation after say 5 years). The workshop begun with saving plans starting from bank deposits and the different interest rate available for savings, recurring and fixed deposit with nationalized banks as well as co-operative banks. The securities market which consists of Equity, Mutual Funds, Derivatives, Bonds/ Debentures etc was introduced. The speaker spoke mainly about Equity (Share market) and Mutual funds to the students. As a general trend the investment percent in securities market is 5% in India as compared to 75 to 80% in developed countries. For share market investment/securities trading, the need of Demat Account, linking with bank account required for trading and ID creation was discussed. Through that ID, trading can be carried out in BSE (Bombay Stock Exchange) and NSE (National Stock Exchange). In the beginning, investment can be done only in NIFTY A group companies, NIFTY 50 and BSE 30. The concept of primary shares (IPO) and secondary shares was told. For beginners to get knowledge of securities market the safe option is to go for mock trading. The mutual fund investment from safety (low-risk) perspective was told. Concept of Portfolio, Fund manager, open fund and dividend type was told. In case of mutual fund the investor can choose to invest in mutual funds registered and listed on SEBI website. Systematic Investment Plan (SIP) was introduced for saving which is a good practice. The students were given handouts for investing guidelines and also feedback about the talk was taken from faculty as well as students. In the end Students asked queries about the many doubts they had. Prof Vivek Belokar, Dr. Shridhar Mhalsekar, Shri Saurabh Raikar and Ms. Annapurna Hosalli were present. Dr. Shridhar Mhalsekar proposed the vote of thanks and the seminar was co-coordinated by Shri Harichandra Chandekar.



Session on Entrepreneurship Development

A session on entrepreneurship development by CIBA was organised by the students of Third Year Mechanical Engineering under the guidance of Dr. Mahesh Dhawalikar in the Seminar Hall of Academic Section on 8th March 2018.

The guests for the function were welcomed by Mast. Shubham Samant. Ms. Sampada Shendure presented a rose to all the guests as a token of love and respect. At the outset, the students were addressed by the Head of the Department Dr. Vinay Shirodkar. Mr. Amey Karmali, Manager-CIBA, gave an introduction of the speakers and a brief introduction about role of CIBA in supporting budding entrepreneurs. Mr. Ryan Vaz founder of Infynyt 3D, presented his journey towards entrepreneurship. This was very motivating, it also reflected the amount of hard work one has to put in to become an entrepreneur. Ms. Gautami Raikar founder of Lawmate.in spoke about the legal aspects involved in setting up a business and issues related to protection of copyrights. Mr. Tushar Sawant presented various government schemes including “Chief Minister Rojgar Yojana” which helps the budding entrepreneurs by providing them financial assistance. The program was concluded with the vote of thanks given by Mast. Omkar Rai. The Session was highly appreciated by the students. The students are looking forward to have similar talks in future.



Workshop on “Network Techniques in Project Management”

On 14 March 2018, a workshop on “Network Techniques in Project Management” was conducted by Mechanical Engineering Students association in the Seminar Hall of Mining Department. Dr. Mahesh Dhawalikar was the resource person and the students of third year mechanical engineering participated in the workshop. Since it was Ambedkar Jayanti on that day some students spoke about Babasaheb Ambedkar and how much he valued the education. The students were motivated to study hard and rise above the ordinary by knowing how education changed their lives. The workshop consisted of presentations on Network techniques in Project management covering the concepts and real life situations. The participants worked on individual and group assignments and presented their outcomes in plenary session. There was a demonstration of use of software in Project management and the participants tried their hands on the same. The workshop was well organised by students of Third Year Mechanical Engineering and there was enthusiastic participation of students.



Industrial Visit to Saligao Waste treatment Plant (SWTP)

Final year Mechanical Engineering Students visited on 23rd March 2018 Saligao Waste treatment plant operated by Hindustan Waste Treatment Private Limited (HWTPL) and has attained the desired capacity of 100 tons a day. This facility also generates 4 MW of electricity which is used to power the plant. This plant is a great educational facility for engineering students. This visit is coordinated by Dr. Jagannath Hirkude, Associate Professor in Mechanical Engineering Department.

At SWTP, trucks transport mixed waste and dump it at the 500 MT capacity tipping floor right at the entrance. A conveyor belt then segregates the waste with manual monitoring by trained workers into nine items like metal, plastic, glass, paper etc. The incinerable fraction larger than 80 mm is packed as Refuse Derived fuel (RDF). Smaller fraction is subjected to OREX technology. Organic waste is converted as fertilizer and sold. The leachate from SWTP plant with high BOD is used for biogas production. There is an effluent treatment plant (ETP) for treatment of on-site wastewater based on the sequential batch reactor (SBR) technology. The SWTP expected to generate 500-1000 KW of electric power.



Industrial Visit to Verna Industrial Estate

The Department of Mechanical Engineering, Goa College of Engineering organized a one day Industrial visit for S.E. Mechanical (2017-2018) students to Verna Industrial Estate on 24th March 2018. Namely 3 companies were visited,

- 1) Hindustan Coca Cola Beverages Pvt. Ltd.
- 2) IFB industries home appliances
- 3) Bosch limited Packaging Technology Division

The visit was organised with the by joint efforts by HMED Dr. Vinay A. Shirodkar and Prof. Mahesh Caisucar. Along with the support of faculty members, students of S.E. mechanical have taken hard efforts and initiative which made this visit a grand success. Prof. Vivek Belokar and Prof. Sanket Shet, faculty of mechanical engineering department accompanied the students during the visit.

1) Hindustan Coca Cola Pvt Ltd.

Hindustan Coca-Cola Beverages Pvt. Ltd, is one of India's largest FMCG manufacturing and distribution companies. It is responsible for the manufacture, package, sale and distribution of beverages under the trademarks of The Coca-Cola Company. Here we saw the production process and learnt how bottle manufacturing and packaging is done we also saw how important quality control is during the production. We were explained the various steps used in production and detail and were also made aware about how crucial these steps are.



2) IFB industries home appliances

IFB Industries Limited originally known as Indian Fine Blanks Limited started their operations in India during 1974 in collaboration with Hienrich Schmid AG of Switzerland. The product range includes Fine Blanked components, tools and related machine tools like Straighteners, Decoilers, Strip loaders and others. The Engineering divisions are located at Kolkata & Bangalore. The Bangalore unit, apart from Fine Blanked components, manufactures motors for White goods as well as automotive applications. The Verna production facility was set up in 1990. It was proposed that when ready, the unit would manufacture front and top loader washing machines. The students were made aware that 1350 front loaders and about 800 top loaders are assembled every day. In IFB the students were not only exposed to electronics and production lines, they could also see and understand the working of Injection moulding machines. We were also shown the various research and development challenges an industry faces and the machines and processes used to overcome these tasks.

After that we saw how timing plays a crucial role in production lines as the output of the company was 1 machine every 18 minutes.



3) Bosch Limited Packaging Technology Division

Due to the increasing demand in India's Packaging market and international markets the Bosch packaging technology division was relocated at Verna, Goa way back in 2007. Now, the ISO 9001: 2008 certified Goa unit designs, manufactures and markets 'form, fill and seal machines' for flexible pouch packing and flow wrap machines for pillow packed candies, cookies and other applications. In Bosch the students could see a perfect blend of mechanics, electronics and programming. They were able to understand how various engineering branches work together in synergy to achieve a common objective. The students were also explained the Mechatronics involved in the working of machines.



The purpose of this visit was to provide the students with technical knowledge and also to help reduce the gap between the academics and how an industry functions. Further the students could relate various concepts learnt in the class with the industry functioning.

The visit helped the students to understand and visualize the new concepts used in industry. They understood the various steps that go into producing a final product and how departments work together to attain a common goal. It was a unique opportunity for students to interact with professionals and clear their difficulties and doubts.

Lecture on 'The Development, Production and Maintenance of Airplane Gas Turbines Engines - Industry Practice'

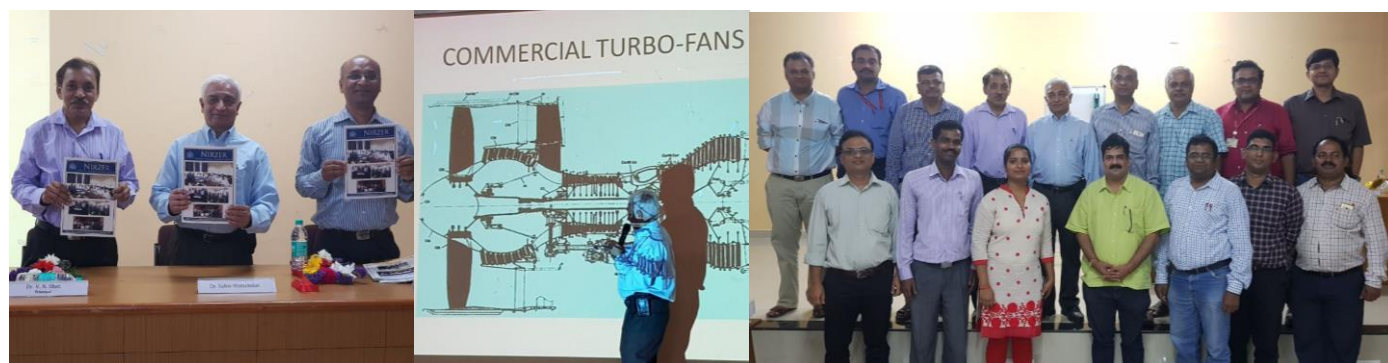
Report by Prof Akshay Nigalye

An enlightening talk on 'The Development, Production and Maintenance of Airplane Gas Turbines Engines - Industry Practice' by Dr. Subir Mozumdar was organized by Mechanical Engineering Department of Goa College of Engineering at their Academic building hall on 27th March 2018, 3.00 pm onwards. This was followed up by active interaction with a full house crowd of around 200 students of undergraduate Mechanical Engineering, staff and college faculty.

Dr. Subir Mozumdar is a Certification Engineer / expert for IC Engines used for aircrafts and has rich experience with global players like Boeing, Honeywell International Arizona, USA, Rolls-Royce Berlin Germany, E Switch USA, Cenco Safran Group France and Aero System Engineering USA etc. He is a member of the elite group of a handful Engineers responsible for testing and certifying Airplane Engines.

During his eventful and passionate talk delivered, Dr. Mozumdar presented the history of development of airplane gas engines. He introduced to the gathering, the various methodologies adopted in maintenance of these engines. There was a presentation of videos on production and maintenance of the engines manufactured by these renowned global aircraft engine manufacturers. Dr. Mozumdar had a very good interactive session with students and faculty answering a lot of their queries and questions.

The program started with the welcome address by the Principal Dr. V. N. Shet. Dr. Vinay Shirodkar, Head of Mechanical Engineering Department addressed the students about the importance of such knowledge boosters and the opportunity the students get interacting with such high profile technocrats. The program was coordinated by the Mechanical Engineering Department under the guidance of Prof. Gajesh Usgaonkar and Prof. Mahesh Caisukar. The program was anchored by Prof. Annapurna Hossali. The program ended with Vote of Thanks proposed by Dr. Akshay Nigalye. The program was extremely well received by the students, staff and faculty.



Smooth Transition from a Student to a Professional

On Wednesday the 28th of March 2018, the Department of Mechanical engineering of the Goa College of Engineering held a workshop on the topic “Smooth Transition from a Student to a Professional”, in the auditorium of the Mining Department of the institute. The workshop was held between 2.30 and 4.45 pm and was organised mainly for the students of SE Mechanical Engineering. Few students from TE Mechanical also attended the workshop. Colonel Mukundrai V Kamat was the resource person. The function began with the warm welcome of the resource person along with the principal of the college Dr. Vinayak N. Shet, the Head of Mechanical Department Dr. Vinay Shirodkar and Professor Mahesh Dhawalikar. Colonel M.V.Kamat explained the aspects of professionalism and how to become a smart professional with the help of Power Point presentation, charts, posters, newspaper articles and many such aids. Colonel Kamat encouraged active participation of the students in his presentation and made the session quite interactive. Apart from explaining the aspects of professionalism, the speaker also motivated the audience to work hard and created awareness of the corporate world. As a token of appreciation Colonel M.V.Kamat was offered his portrait sketched by SE Mechanical students. At the end of the session few students gave feedback of the workshop. Colonel M.V.Kamat gifted books on professionalism to the winners of lucky draw.

A group of students from S.E. Mechanical was actively involved in the organisation of the workshop. The function was beautifully hosted by Master Keegan Menezes who created enthusiasm and zeal among the audience. Master Kedar Dicholkar presented a soothing welcome song with his melodious voice. Miss Risha Hegde introduced the speaker and his wife Mrs Richa Kamat. Master Keegan Menezes proposed the vote of thanks.



MESSERGI Activity

Report by Suhail Khan, MESSERGI Advisor

MESA, under the banner MESSERGI (Mechanical Engineering Students Social Educational Responsibility and Green Initiative) organised a visit to the Children's home 'Sister's Adorers' on 7th April 2018. Sisters Adorers is located in Madel, Thivim, Goa. During this visit a water purifier and notebooks were donated. There were total 25 students. The students study in St. Ann's High School, Thivim upto 10th standard. After that they are sent either to Velsao, Goa or Mumbai where they have other centres; from where they can easily pursue their higher studies. The program was conducted by Mechanical Engineering students and faculty members. Everyone gave their useful contribution to this beautiful work. Our HMED Dr. Vinay Shirodkar provided us with all the necessary help and cordially supported us in this noble cause. Mechanical Engineering department has always worked for the social cause to uplift the society. Mechanical engineering students from various parts of Goa visited this beautiful place. Seeing the smiles on the beautiful faces of those children made everyone's day. Sister's Adorers is currently managed by Sister Sunita and Sister Sarita who take care of these children. We also conducted series of games and distributed sweets. The program was successfully conducted.



Prof. Uday Amonkar Memorial Lecture

Indian Institution of Industrial Engineering (IIIE) - Goa Chapter organized the 5th Prof. Uday Amonkar Memorial Lecture on 3rd May 2018. This is the birthday of Prof. Uday Amonkar, who was faculty in the Mechanical Engineering Department of Goa College of Engineering and was a veteran in Industrial Engineering field in the state of Goa. It is on this day the Goa Chapter of IIIE was inaugurated in the year 2013. The Memorial Lecture titled “Marketing in the Digital & Social Media Age” was delivered by Dr. Ajit Parulekar, Director, Goa Institute of Management. Dr. Parulekar spoke on changing dynamics of marketing over the years. He gave examples of various multinational companies and their marketing strategies. The event began with the welcome address by Prof. Vivek Kamat, President IIIE Goa Chapter and Director of Technical Education, Government of Goa. Dr. Vinayak Shet, Principal, Goa College of Engineering, Farmagudi, Goa shared the experience he had with Professor Uday Amonkar. Later the dignitaries paid homage to Prof. Amonkar. Dr. Suraj Rane, Chairman, IIIE-Goa Chapter introduced the guest speaker. Dr. Suraj Rane proposed vote of thanks. Prof. Suraj Marathe, Jt. Secretary, IIIE Goa Chapter compered the event.



Farewell function for B.E. Mechanical students Batch of 2018

The faculty of the department bid adieu to the final year students of 2018 batch, at a farewell function held in the college campus on 3rd May 2018. The T.E.Mechanical students made the arrangements for the farewell. The music club members Gavin D'Mello, Govardhan Parker, Savio Furtado and Shubham Kale gave a wonderful musical performance. Few games and activities were organized by the T.E.Mechanical students which were all received well by their seniors. The Head of Mechanical Engineering Department, Dr. Vinay Shiroadkar gave a motivational speech to the students. 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.





Undergraduate Final Year Project (2017-18)

Group	Roll No	NAME	Title	Guide
01	141102009	CHODANKAR ANKIT DEVENDRA	Breakdown Analysis and Preventive Measures for Mining Machinery	Dr. Shridhar Mhalsekar
	141102033	NAIK GOVEKAR ABHISHEK		
	141102035	NAIK SAHIL SUBHASH		
02	121102005	BARRETO ROGER	Automatic Blackboard Cleaner	Dr. Raghavendra Naik
	131102042	NAIK PRAJYOT ULHAS		
	131102045	PARSEKAR SANKET SUDHAKAR		
	131102055	SHANKAR LADU VELIP		
03	121102002	ALPHONSO FRANCIS JOSEPH	Use of KERS in Bike for Boosting and Shifting of Gears	Dr. Akshay Nigalye
	131102024	GAUDE KAUSHALYA RAMDAS		
	141102032	NAIK DHANASRI SHIVDAS		
04	141102030	NAIK ASHWIN UMESH	3D Sculpting Duplicator Machine	Mahesh Caisucar
	141102037	NAIK SOHAN SUBHASH		
	151202005	GAONKAR PRAJYOT MAHADEV		
	151202012	VERNEKAR VARUN DINKAR		
05	141102027	MANOJ GAWAS	Lean Implementation in VI Box Line at Siemens Pvt. Ltd.	Dr. Vinay Shirodkar
	141102053	SHARMA VIVEK KUMAR		
	141102061	TIWARI AYUSHMAN		
	141102067	AVINASH KUMAR YADAV		
06	141102011	D'COSTA FRENZIL SAVIO	Fabrication of Waste Heat Recovery System	Flt. Lt. B. R. Kulkarni
	141102025	KOLE GANESH VINAYAK		
	141102036	NAIK SANISH		
07	141102050	SAWANT AMONKAR RAJ UMAKANT	Design and Fabrication of Multi-Tasking Floor Cleaner	Mahesh Caisucar
	141102051	SAWANT AVIRAJ		
	141102055	SHUBHAM H. SUVARNA		
08	141102005	BARVE SANDAT SADANAND	Alternate Design of Solar Cooking and its Fabrication	Flt. Lt. B. R. Kulkarni
	141102006	BHAT SIDDHINATH LAXMINARAYAN		
	141102014	FERNANDES VELANKAN		
	151202003	DE SOUZA SANFORD		
09	141102004	BARRETTO WAYNE EVARISTO	Cycle Time Optimization of Coil Winding Machine at Motor Manufacturing Industry	Dr. Mahesh Dhawalikar
	141102008	CHARI DIVYA PUNDALIK		
	141102012	DE SA WARREN EUSEBIO		
	141102021	JOSHI PRATIK PRADIP		
10	141102039	NIVEDH P	Analysis & Improvement of Automated Railway Coach Washing Plant	Dr. Raghavendra Naik
	141102057	SUHAIL KHAN		
	141102060	TIJU GEORGE VARGHESE		
11	141102024	KERKAR NANDAY VIVEK	Breakdown Analysis and Modifications at NPK Plant of Zuari Agro Chemicals Limited	Gajesh Usgaonkar
	141102028	MASCARENHAS RYAN XAVIER		
	141102031	NAIK DESAI RHUSHIKESH ULHAS		
	141102049	SARDESSAI YATIN		
12	131102034	MULGAONKAR SHUBAM RAJENDRA	Design and Fabrication of Vertical Axis Wind Turbine Based on Magnetic Levitation	Harichandra Chandekar
	151202004	DEVLI RAHUL RAMESH		
	151202009	NAYAK VINOD		
	151202011	SAWANT RAJAT RAMKRISHNA		
13	141102040	PARAB SHREYAS SUDHIR	Modeling , Analysis and Simulation of Pipe Network System for Fertilizer Plant	B. S. Manohar Shankar
	141102041	PATRAVALI AKASH DHANAPAL		
	141102043	PINGE ANIKET ACHYUT		
	141102044	PRABHUDESSAI YASH SUDIN		

14	141102007	BHOSALE SHRINATH RAMCHANDRA	Design and Fabrication of Self Balancing Bicycle	Harichandra Chandekar
	141102018	GAUNS DESSAI CHANDRADEEP		
	141102034	NAIK KARTIK RAVINDRA		
	141102038	NAIR ABHIJIT TULSHIDAS		
15	141102017	GAUDE SHASHANK RAMNATH	Design of an Atmospheric Propulsion System	B. S. Manohar Shankar
	141102019	GAWAS SAEEL		
	141102056	SRIVATSAN KOWSHIK		
16	151202001	BEPARI IMATIYAZ MOHAMMED	Design & Fabrication of Automatic Multipurpose Wood Working Machine with Manual Interface	Dr. Akshay V. Nigalye
	151202002	D'COSTA JASON		
	151202006	HIREMATH AKASH SHIVANAND		
	151202007	KARIMI SAYYED ABDURRASHID		
17	141102003	BARRETO JHONTY JESUS	Solar Photovoltaic Water Pumping Irrigation System	Milind Sakhardande
	141102045	RAIKAR SUSHANTKUMAR		
	141102052	SAWANT PRANABH PRAVIN		
	141102059	TARI VISMAY VIJENDRA		
18	141102026	KORGAONKAR SANKET SUBHASH	Material Flow Improvement Using Six Sigma in Assembly of Ceiling Fans	Dr.Suraj Rane
	141102047	SAMANT PRATIK PRAKASH		
	141102063	VERDEKAR AMEYA TULXIDAS		
	141102066	WALVEKAR AKSHAY SANJAY		
19	121102062	SURLAKER SHAHEEN DURGADAS	Automatic Weighing and Packing Machine for Grocery Stores	Dr. Shridhar Mhalsekar
	141102048	SANIL SHIVDUTT NAIK		
	141102065	VOLVOIKAR PRADOSH PRADIP		

Papers Presented/ Published by Faculty

- Jagannath Hirkude et.al., “Effect of Compression Ratio, Injection Pressure and Injection Timing on Performance and Smoke Emissions of CI engine Fueled with Waste Fried Oil Methyl Esters - Diesel Blend” Materials Today: Proceedings 5 (2018) 1563–1570. (ISSN No. 2214-7853) (Scopus Indexed - Elsevier Journal)
- Jagannath Hirkude et.al., “Techno-economic conversion of Waste Fried Oil into Biodiesel through Transesterification” IOP Conf. Series: Materials Science and Engineering 377 (2018) 012160. (IOP Publishing - Scopus Indexed) (ISSN No. 1757-899X)
- Mahesh Dhawalikar et. al., “Reliability Analysis of Induction Motor Using Stochastic Modeling”, International Journal of Scientific research, 14(1) 2017 366-373.
- Mahesh Dhawalikar et. al., “Semi Markov Model for Optimizing Availability of Testable Systems”, International Journal of Pure and Applied Mathematics, Volume 114 No. 11 2017, 83-93, ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-line version)
- Mahesh Dhawalikar et. al., “Multi-State Failure Phenomenon and Analysis Using Semi-Markov Model” International Journal of Quality and Reliability Management, Accepted to be published in Vol 35, Issue 9, 2018.

Workshop/Conferences Attended by Faculty

- Dr. Raghvendra Naik and Shri Harichandra Chandekar attend 1 week TEQIP workshop at Don Bosco on Fluid Mechanics from 8th to 12th January 2018.
- Dr. Jagannath Hirkude attended One Day Seminar on "Atomic Energy for Sustainable Development and Public Perception" organized by BARC at Don Bosco College of Engineering on 3rd February 2018.
- Dr. Jagannath Hirkude attended two days The Indian Plumbing Conference at Dr. Shyama Prasad Mukherjee Stadium, Goa on 27-28 April 2018.
- Dr. Jagannath Hirkude attended One day workshop on NPTEL awareness at Don Bosco College of Engineering, Fatorda on 21st July 2018 conducted by IIT Madras.
- Dr. Vinay Shirodkar participated in the International Conference on "Sustainable Growth through Universal Practices in Technology & Management" from 8th to 10th June 2018 at Goa International Centre.

Padmashree Prof Deepak Phatak visits GEC

Well known Indian computer scientist, Padmashree Prof. Deepak Phatak, IIT Bombay, delivered a talk on "Transforming Teachers - A Critical Need for this Digital Century" on 9th February 2018 at Goa College of Engineering, Farmagudi.

During the session, in his unique style, Prof. Phatak kept the audience spellbound highlighting the advantages of use of ICT in education.

Prof. Phatak urged teachers to integrate effective teaching techniques using ICT in their routine rather than just restricting themselves to conventional chalk talk since the current day learner is more equipped with lots of information on the internet. He also emphasized on advantages of academic autonomy and Government of India project T10KT.

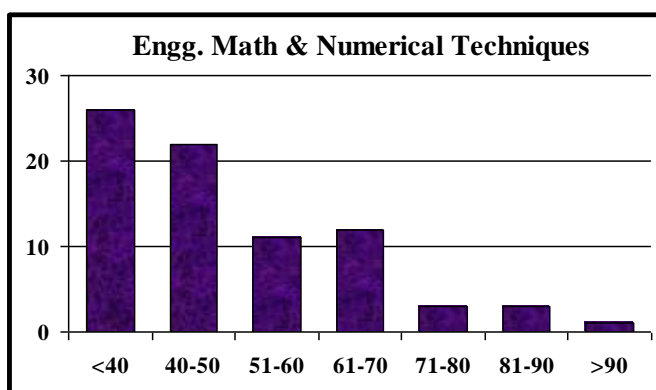
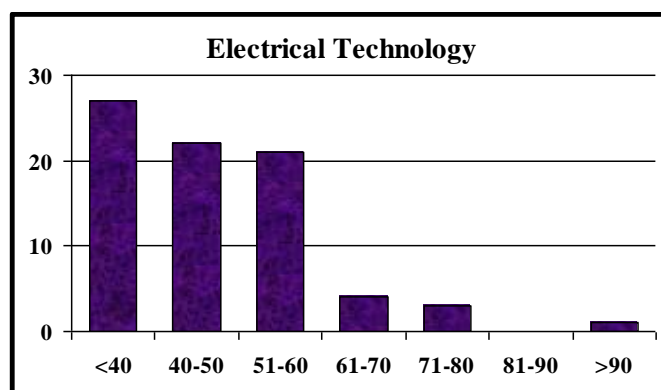
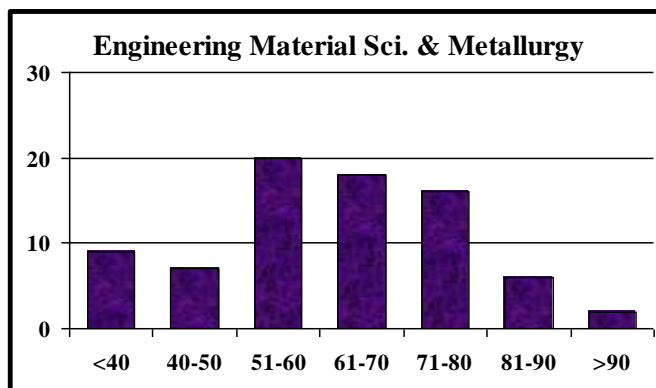
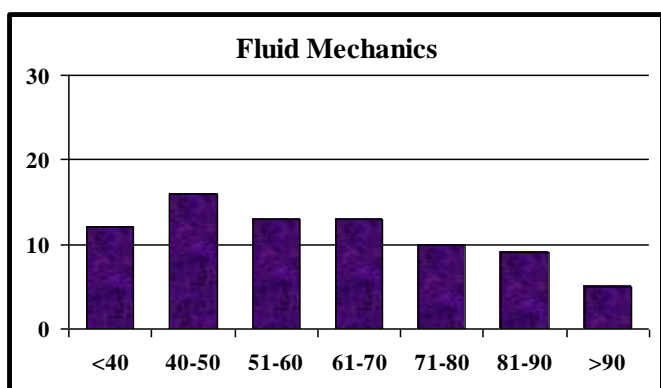
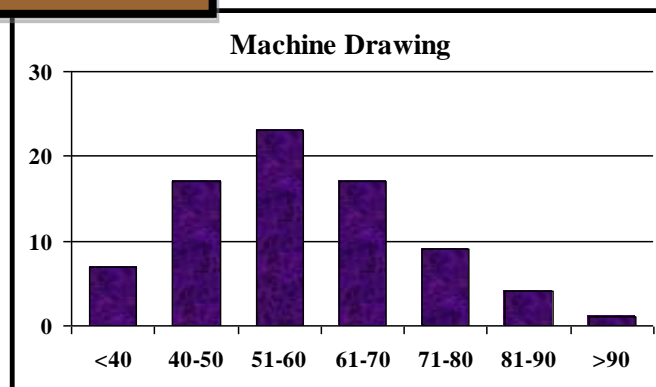
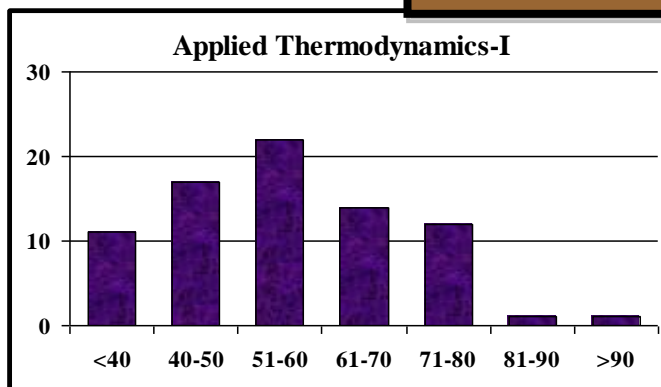
Dr. Ulhas Sawaikar, Convenor, Head of Mining Dept welcomed Prof. Phatak on behalf of Goa College of Engineering. Dr. V. N. Shet, Principal delivered the welcome address and Prof. Nilesh Phaladesai, Head of IT dept, proposed the vote of thanks.

During this occasion, Prof. Phatak was felicitated in the hands of Dr. V. N. Shet, Principal, GEC and Dr. Gopal Mugeraya, Director, NIT Goa. The programme was coordinated by Prof. Milind Sakhardande from Mechanical Engg. Dept., Dr. Anant Naik from Electrical & Electronics Dept., Prof. Marushka Mascarenhas from Computer Engg. Dept. and Prof. Sonia Kuwelkar from ETC Dept. from GEC.

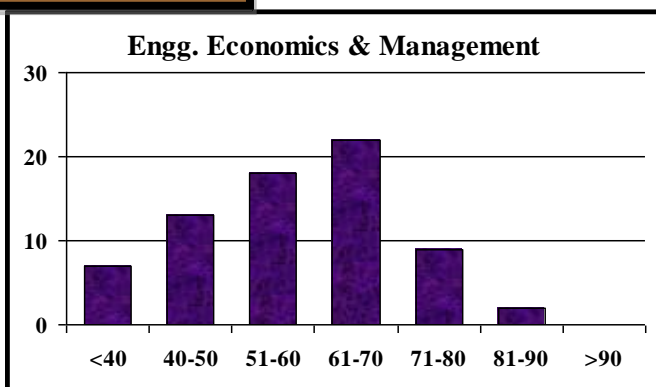
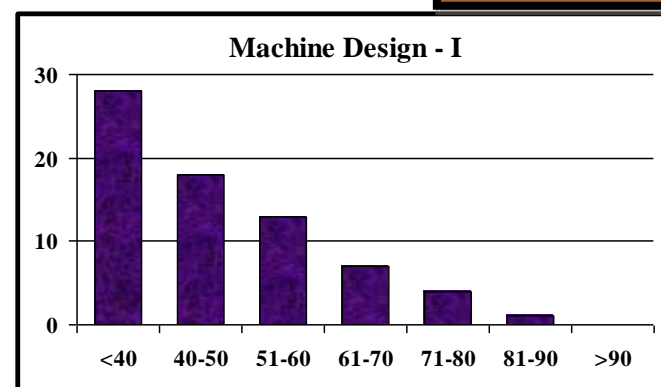
The event received overwhelming participation by faculty of IIT Goa, NIT Goa, GEC, AITD Assagao, DBCE Fatorda, PCCE Verna and SRIET, Shiroda.

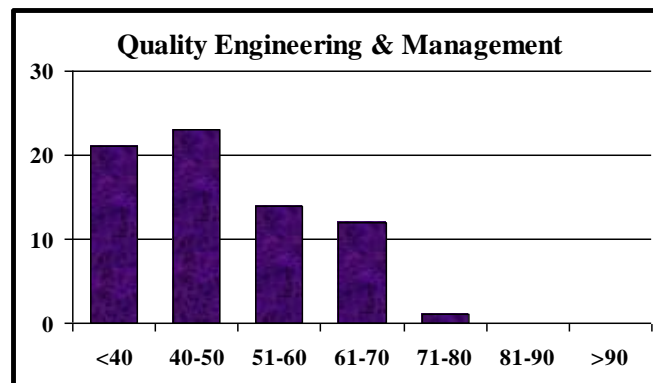
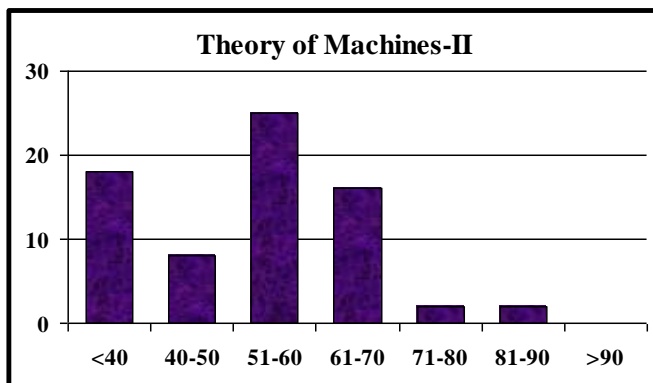
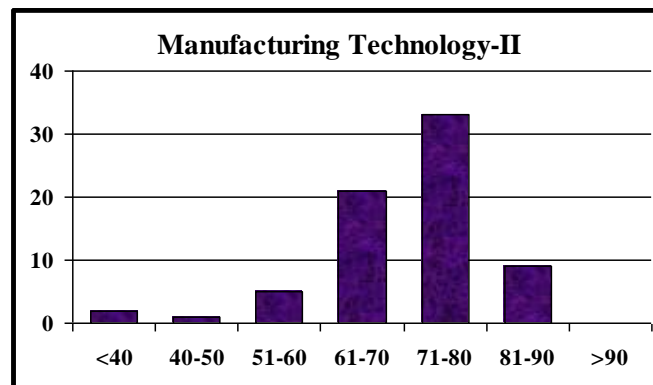
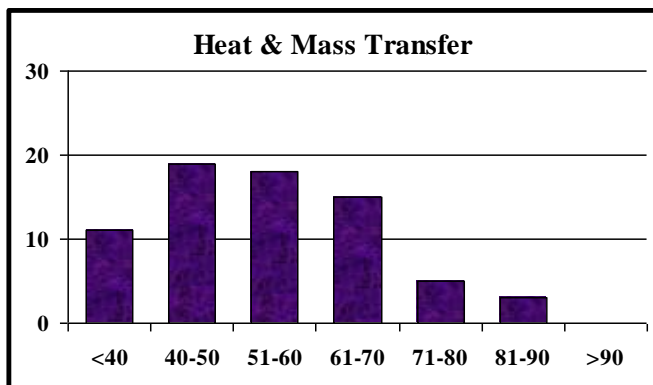
Result Analysis Nov/Dec 2017 (Number of student's v/s Range of marks)

SEMESTER III

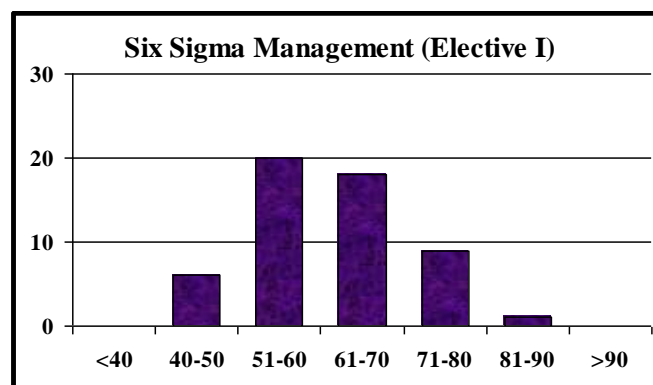
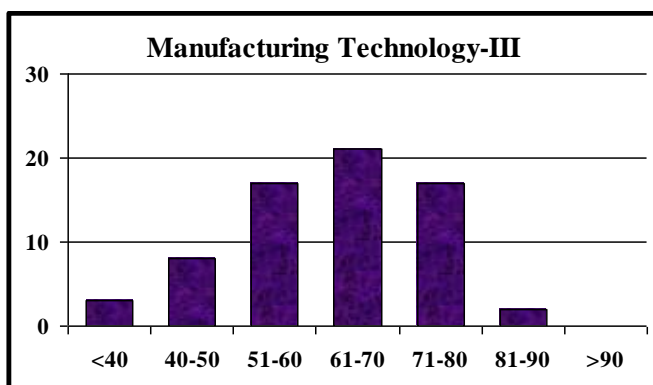
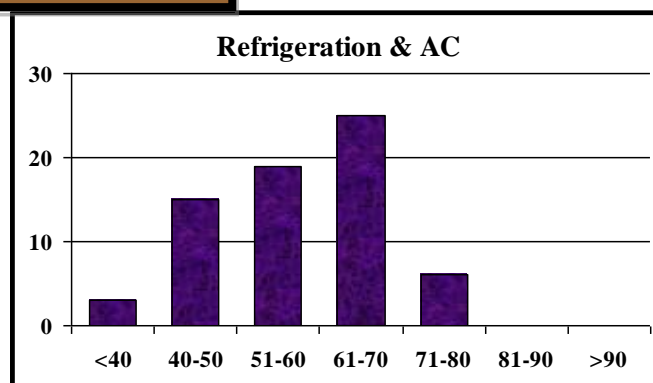
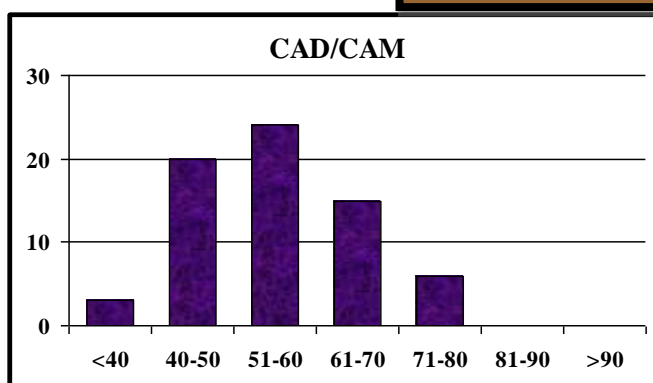


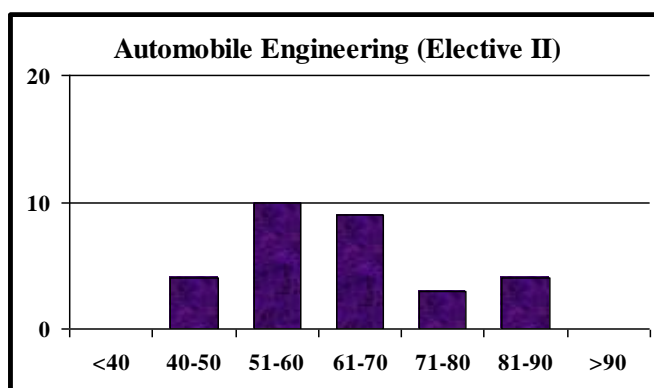
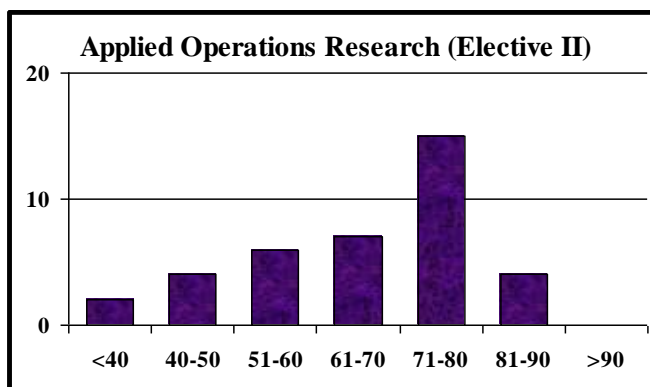
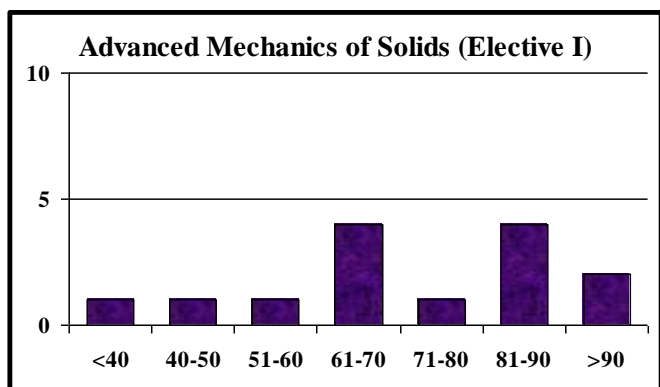
SEMESTER V





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 2017-18 include Cricket, Basket Ball, Volley Ball, Base Ball etc.

Sr.no.	Name	Class	Event	Performance
1	PIYUSH SUBHAM	SE	BASKET BALL	2 ND ROUND
2	KEEGAN D'SA	TE	BASKET BALL	2 ND ROUND
3	ANMOL SHUKLA	TE	BASKET BALL	2 ND ROUND
4	VIGNESH USAPKAR	TE	VOLLEY BALL	2 ND ROUND
5	NAIK SOHAN	BE	CRICKET	QUARTER-FINALS
6	SANKET KORGAONKAR	BE	CRICKET	QUARTER-FINALS
7	SANDAT BARVE	BE	CRICKET	QUARTER-FINALS
8	SHREYASH SHET	BE	BASE BALL	2 ND ROUND

Placement Data for B.E.Mechanical Students 2018

Name	Company Name
Saeel Gawas	Infosys
Kowshik Srivatsan	QuEST Global
Rhushikesh Naik Desai	Indian Oil - Adani Gas Pvt. Ltd.
Pratik Joshi	QuEST Global

Abhijit Nair	Cairn India (Vedanta group)
Abhishek Naik Govekar	Deccan Fine Chemicals: Apprenticeship
Ryan Mascarenhas	Indian Oil - Adani Gas Pvt. Ltd.
Shubham Suvarna	Vedanta
Nivedh P.	Hindustan Zinc Limited (Vedanta Group)
Akshay Walvekar	Hindustan Zinc Limited (Vedanta Group)
Yash Prabhudessai	Indian Oil - Adani Gas Pvt. Ltd.
Ayushman Tiwari	Infosys
Akash Patravali	Infosys
Warren De Sa	QuEST Global
Suhail Khan	Hindustan Zinc Limited (Vedanta Group)
Yatin Sardessai	Deccan Fine Chemicals: Apprenticeship

Internship Data for Jan 2018 of T.E.Mechanical Students

Name	Company Name	Period	
Vardhan Prasad kamat	Bosch Packaging Technology, Verna	18-Dec-17	6-Jan-18
Prajakt Naik	Deccan	2-Jan-18	16-Jan-18
Akash Dharwadkar	Zuari Agro Chemicals Ltd., Sancoale	5-Jan-18	16-Jan-18
Shailesh Vishwakarma	Zuari Agro Chemicals Ltd., Sancoale	5-Jan-18	16-Jan-18
Ambresh Goudar	Zuari Agro Chemicals Ltd., Sancoale	5-Jan-18	16-Jan-18
Akshay Gandhi	Zuari Agro Chemicals Ltd., Sancoale	5-Jan-18	16-Jan-18
Saurabh Barve	Rututek Enterprises, Madkai	2-Jan-18	16-Jan-18
Siddharth Naik Panvelkar	Rututek Enterprises, Madkai	2-Jan-18	16-Jan-18
Akash S.Parab	Muktar Automobiles Pvt. Ltd., Kakoda Industrial Estate	2-Jan-18	16-Jan-18
Ajay K. Gaude	Muktar Automobiles Pvt. Ltd., Kakoda Industrial Estate	2-Jan-18	16-Jan-18
Shankar Chari	Muktar Automobiles Pvt. Ltd., Kakoda Industrial Estate	2-Jan-18	16-Jan-18
Pratik Prasad Hoble	Dempo Shipbuilding & Engg. Pv. Ltd., Baingunium, Old Goa	2-Jan-18	16-Jan-18
Shubham Premanan Gaonkar	Dempo Shipbuilding & Engg. Pv. Ltd., Baingunium, Old Goa	2-Jan-18	16-Jan-18
Shivam Desai	Crompton Greaves, Bethoda	21 June 18	14 July 18
1. Manish Revankar 2. Shreyas Naik 3. Vignesh Usapkar 4. Akash Parab 5. Sainath Samant 6. Prasanna Gaonkar	Dhavalikar Automobiles, Dhavali, Ponda	21 June 18	14 July 18
1. Rahul Patil 2. Kishor Chitrigemath	Lift Control Pvt. Ltd.	21 June 18	14 July 18

Anmol Shukla	Goa Shipyard Ltd.	21 June 18	14 July 18
Amey Nagvekar	Chemtrol Industries Pvt. Ltd.,	21 June 18	14 July 18
1. Poornapragya G.Joshi 2. Siddhant V. Naik 3. Parth P.Kunkolienkar 4. Sharmad S. Madkaikar 5. Abhijeet V.Mordekar 6. Shubham A. Kale 7. Saurabh K. Barve 8. Vardhan Kinjawadekar 9. Nilesh Rane	Sky Rider Automotive, At Gram Tarang, CIT Campus, Odisha	21 June 18	14 July 18

Internship Data for Jan 2018 of S.E.Mechanical Students

Name	Company Name	Period	
Emmanuel De Souza	Volkswagen Goa, Verna	2-July-18	14-July-18
Ezbon Valton Fernandes	Goa Shipyard Ltd., Vasco	2-July-18	14-July-18
Shantanu Ajgaonkar	Diebold Nixdorf, Thivim	2-July-18	14-July-18
1. Saish Paryekar 2. Vijeet Pednekar	ACGL, Bhuipal, Sattari	21-Jun-18	07-July-18
1. Rahul Kundaikar 2. Raj Lotlikar 3. Shrey Kamat 4. Dikshay Mairekar	Zuari Agro Chemicals Pvt. Ltd., Zuarinagar	2-July-18	14-July-18
Ved Bhobe	Power Engg. India Pvt. Ltd., Tuem	20-Jun-18	04-July-18
1. Sunay V.Dharwadkar 2. Shahzeb Shaikh	IFB Industries Ltd., Verna	21-Jun-18	12-July-18
Keegan Antonio Menezes	Sharayu Toyota, Sharayu Automobiles	20-Jun-18	04-July-18
Richa Umesh Kamat	Kineco Ltd., Pilerne	20-Jun-18	04-July-18
1. Ugam Prabhu Kholkar 2. Sharven Shenvi Kerkar	EM DG PRO, Verna	15-Jun-18	15-July-18
Sagar Vijay Sakhardande	Uneeco Group of Companies, Bahrain	23-Jun-18	12-July-18
1. Nichal Majik 2. Gautamesh Gaonkar 3. Shantesh Parab	ACGL, Bhuipal, Sattari	21-Jun-18	07-July-18
1. Pratik Gaonkar 2. Swapnil Mense	MRF Ltd., Usgao	01-Jun-18	15-July-18
Zibern Correia	Zuari Industries Ltd., Zuarinagar	25-Jun-18	14-July-18
1. Rahul Kundaikar 2. Raj Lotlikar 3. Shrey Kamat	Zuari Agro Chemicals Pvt. Ltd., Zuarinagar	25-Jun-18	14-July-18

4. Dikshay Mairekar 5. Siddhant Khandeparkar 6. Trisco P.J. Moniz 7. Prithviraj Naik 8. Mandar Shiroadkar			
1. Uthara Nair 2. Prabhu M.Nair 3. Leyden Dias 4. Gandhish Phaldessai 5. Agnesh Ghadi	Bosch India Pvt. Ltd., Verna	26-Jun-18	14-July-18
1. Gautam Bhat 2. Omkar Satardekar 3. Sunil Pujari 4. Aniketh Aeer	Goa Shipyard Ltd., Vasco	02-July-18	14-July-18
Piyush Chavan	Goa Shipyard Ltd., Vasco	29-Jun-18	14-July-18
1. Shubham Ballikar 2. Deelip Govekar	Kineco ltd.	20-Jun-18	04-July-18
1. Chirag Naik 2. Clarry Mascarenhas	Alcon Hyundai, Porvorim	20-Jun-18	04-July-18
Aamir Amin Wani	Navayuga Engineering Co-Ltd.	20-Jun-18	04-July-18
Hegde Risha Milind	Turbocam India Pvt.Ltd.	20-Jun-18	04-July-18
Jaykumar Prajapati	Essel Propack ltd., Valsad	20-Jun-18	04-July-18
1. Govind Shivram Sawant 2. Sarvesh N Khandekar	ACGL Honda, Honda Sattari Goa.	20-Jun-18	04-July-18
1. Atharv Joshi 2. Sanket Madkaikar 3. Amey Naik	Crompton Greaves Ltd., Kundai	20-Jun-18	04-July-18
1. Dipraj Dhuri 2. Gaurav Shiroadkar 3. Sachin Govekar	ACGL Honda, Honda Sattari Goa.	20-Jun-18	04-July-18
1. Prathamesh Gauns 2. Ravikiran Malwade	Aerocoach Pvt. ltd.	20-Jun-18	04-July-18
Kishor Velip	Chowgule Industries Pvt. Ltd.	20-Jun-18	04-July-18
Vivekanand Tendulkar	Chowgule Industries Pvt. Ltd.	20-Jun-18	04-July-18
1. Akhil Pallathe 2. Aniket Khedekar	Modern Plastic Industry,	20-Jun-18	04-July-18
Eshant Kunkalkar	Diebold Nixdorf pvt. ltd	20-Jun-18	04-July-18

NIRZER 14

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