

# NIRZER

NEWSLETTER OF MECHANICAL ENGINEERING DEPARTMENT



# **EVENTS and ACTIVITIES**

- AL					
1	19th January 2019	SCI-FFI Invited Guest Lecture			
2	02nd Feb 2019 to 10th Feb 2019	IE GRADUATE SHIP EXAMINATION -			
3	25/01/2019	CLEANLINESS DRIVE on			
4	14th March 2019	ELD VISIT FOR FINAL YEAR FPC STUDENTS			
5	29 <sup>th</sup> March 2019	FIELD VISIT FOR FINAL YEAR FRC STUDENTS			
6	30th March 2019	FIELD VISIT FOR THIRD YEAR STUDENTS at MODERN PLASTIC			
7	30th March 2019	ELD VISIT FOR THIRD YEAR STUDENTS at MRF			
8	28th January 2019	IIIE FOUNDATION DAY: TALK on "GREEN REVOLUTION"			
9	17 April 2019	Talk on "MANAGING LOGISTICS IN SUPPLY CHAIN ACROSS INTERNATIONAL BORDERS"			
10	18 <sup>th</sup> of February 2019	TALK on "EXPLORATION AND PRODUCTION OF HYDROCARBON IN INDIA"			
11	14 February 2019	ALL GOA KONKANI QUIZ COMPETITION			
12	03 April 2019	Talk on "PAPER PLANES: CONCEPTS and MODELS"			
13	28/02/2019 to 04/03/2019.	ISHRAE: ACREX TECHNICAL EXHIBITION at BOMBAY			
14	10 April 2019	ALL INDIA ESSAY WRITING COMPETITION			
15	3rd May 2019	6TH PROF. UDAY AMONKAR MEMORIAL LECTURE on "IOT & IIOT: PERILS & PROMISES"			

# **DEPARTMENTAL NEWS**

- Prof Gajesh Usgaonkar was the faculty coordinator for the Engineering Graphics course.
- Dr. Raghavendra Naik delivered a guest lecture on "Bullet Trains: Technologically Complex Machines" at the 4<sup>th</sup> Science Film Festival of India on 19<sup>th</sup> January 2019.
- Prof. Gajesh Usgaonkar and Prof. Mahesh Caisucar organized a talk on 18<sup>th</sup> February 2019, under value addition program on the topic "Exploration and Production of Hydrocarbon in India". The Guest speaker for the program was Dr. S.K Chattopadhyay, retired Deputy General Manager of Oil and Natural Gas Corporation.
- **Prof. Gajesh Usgaonkar** was the coordinator from GEC for the 7<sup>th</sup> Advocate Arun Singbal memorial quiz completion held at the academic hall of Goa College of Engineering.
- Dr. Jaganath Hirkude participated in ACREX Technical Exhibition at Bombay Exhibition Centre with ISHARE student's member (T.E. Mechanical) from 28<sup>th</sup> February to 04<sup>th</sup> March 2019.
- Dr. Jaganath Hirkude was appointed as an expert member on the selection committee for the interview of Assistant Professor (regular) in the Department of Mechanical Engineering at Don Bosco College of Engineering held on 06<sup>th</sup> March 2019.
- Dr. Raghavendra Naik was the coordinator for one day workshop on "3D measurements and realization technology" organized by the Civil and Mechanical Engineering Department in association with FARO 3D visionary India on 2nd May 2019.
- Prof. Milind Sakhardande was one of the coordinators for the talk by Mr. Abhijeet Pawar, MD of Sakal Media Group.
- Prof. Milind Sakhardande was the remote center coordinator for the SCILAB workshop by NMEICT.

- The 6<sup>th</sup> Prof. Uday Amonkar Memorial Lecture was held on 3<sup>rd</sup> May 2019. The Memorial Lecture titled "IoT & IIoT: Perils & Promises" was delivered by Prof. G. Raghurama, Director, BITS Pilani KK Birla, Goa Campus.
- IIIE National Headquarters Foundation Day was celebrated on 28<sup>th</sup> January 2019 at GEC.
  Dr. Rajesh Mehrotra, Associate Professor, Department of Biological Sciences, Birla Institute of Technology and Science (BITS) Pilani Goa-Campus spoke on the theme "Green Revolution".
- A value addition talk on "MANAGING LOGISTICS IN SUPPLY CHAIN ACROSS INTERNATIONAL BORDERS" was delivered by Dattaprasad Bhonsle, Senior Vice President SCM, Capricon Logistics Pvt. Ltd. The talk was organized for the third-year and final-year Mechanical students. Prof. Mahesh Caisucar and Prof. Gajesh Usgaonkar were the faculty coordinators.
- Dr. Raghavendra Naik & Dr. Jagannath Hirkude attended a two-week "Induction Phase 1" program from 6<sup>th</sup> May to 17<sup>th</sup> May 2019 at NITTTR regional center Goa.
- Dr. Mahesh Dhawalikar attended a one-week training program on "Emotional Intelligence in Teaching" from 10<sup>h</sup> June to 14<sup>th</sup> June 2019 at NITTTR regional center Goa.
- Mechanical Engineering Department Faculties; Dr. Mahesh Dhawaliker, Flt Lt B R Kulkarni, Prof. Milind Sakhardande, Dr. Shridhar Mhalsekar, Prof. Manohar Bhat, Prof. Hari Chandekar, and Dr. Raghavendra Naik were deputed as Presiding officer for Loksabha Elections 2019 by the Election Commission of India.
- Mechanical Engineering Department Faculties; Dr. Suraj Rane Dr. Mahesh Dhawaliker Flt Lt B R Kulkarni Prof. Milind Sakhardande Dr. Shridhar Mhalsekar were deputed as Invigilators for Goa Common Entrance Test (GCET).
- Mechanical Engineering Department Faculty Dr. Akshay Nigalye was appointed as vicechairman for National Eligibility Cum Entrance Test (NEET).

 Happenings 2019 was conducted successfully by GEC students and faculty members. Dr. Vinay Shirodkar was in charge of the disciplinary committee; Prof. Milind Sakhardande, Prof. Achintya Kamble, and Prof. Vivek Phadte were in charge of the cultural committee. Dr. Shridhar Mhalsekar, Prof. Hari Chandekar, Dr. Raghavendra Naik, Prof. Malikarjun Gurav and Prof. Ankit Sawant were the event coordinators.

### PAPERS PRESENTED/ PUBLISHED

- Preetam Naik and Dr. Suraj Rane presented a paper titled "Integrated Robust Design Methodology and Dual Response Surface Methodology approach in optimization of Powder Coating process" at the International Conference on Recent Trends in Engineering, Technology and Business Management (ICRTETBM 2019), February 20-22, 2019 held at Amity University, Noida.
- Ameya Shirodkar and Dr. Suraj Rane presented a paper titled "Evaluation of Coordinate Measuring Machine using Gauge Repeatability & Reproducibility" at the International Conference on Recent Trends in Engineering, Technology and Business Management (ICRTETBM 2019), February 20-22, 2019 held at Amity University, Noida.
- Bhalchandra Priolkar and Dr. Suraj Rane presented a paper titled "Performance improvement using Total Productive Maintenance in Tyre Manufacturing Industry" at International Conference on Advancement in Mechanical Engineering (ICAME 2019), April 10-11, 2019, held at Jyothi Engineering College, Cheruthuruthy, Thrissur.
- Amey Naik Dessai, Mahesh Caisucar, Gajesh Usgaonkar presented a paper titled "Validation of Portfolio Allocation in NPD: Fuzzy TOPSIS and COPRAS Grey Approach" at the International Conference on Recent Trends in Engineering, Technology and Business Management (ICRTETBM 2019), February 20-22, 2019 held at Amity University, Noida.
- Pradip Parab and Dr. Vinay Shirodkar presented a paper titled 'Value Stream Mapping: a case study of lock industry" at the International Conference on Role on Advances in Mechanical Engineering and NanoTechnology (ICAMEN 2019), March 08-09, 2019, Manipal University, Jaipur.

- Paper titled "Application of ARAS for Idea Screening Phase of NPD in Automobile Industry" has been selected for publishing in Industrial Engineering Journal. The authors are Amey Naik Dessai, Mahesh Caisucar, and Gajesh Usgaonkar.
- Dr. Jaganath Hirkude published a paper titled, "Performance Optimization of Compression Ignition Engine Fuelled With Rice Bran Oil Biodiesel" at the International Conference on Innovative Applied Energy (IAPE'19 held at St Cross College, ), University of Oxford, the United Kingdom during March 14-15, 2019.

#### **SCI-FFI Invited Guest Lecture**

Dr. Raghavendra D. Naik delivered a guest lecture at SCI-FFI 19 on "BULLET TRAIN COMPLEX MACHINES" on 19th January 2019. The Goa state unit of Vidyana Bharti organized the 4th edition of Science Film Festival, SCI-FFI'19 from 17th to 19th January 2019 at INOX, Panaji in association with the Department of Science & Technology, Govt. of Goa.



# **IIIE GRADUATE SHIP EXAMINATION - FEBRUARY 2019**

IIIE Graduate Ship Examination was conducted by IIIE, Goa Chapter at GEC from 02nd Feb 2019 to 10th Feb 2019. In total 08 candidates answered Preliminary, 12 answered Section-A and 08 answered Section-B of the exam. All the candidates who answered the exam were from the Industry. The exam was conducted for 37 subjects, spread over eight sessions, with each session being of a three-hour duration. The timing for the sessions was in the evening from 6 PM to 9 PM on working days and from 10 AM to 1 PM on Sunday. Prof. Suraj Marathe, Assistant Professor in Mechanical Engineering Department from Don Bosco College of Engineering was the Chief Exam Superintendent for this exam, assisted by Mr. Sanket Shet, Research Scholar from IIT Goa. The examination was conducted smoothly under the guidance of Prof. Gajesh G S Usgaonkar, Associate Professor in Mechanical Engineering Department, Dr. Suraj Rane, Professor in 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 the smooth conduct of the exam and were also involved in 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 center in the college, which was very convenient for them, or else they were forced to apply for 15 days leave and go to Pune or Bangalore for answering the exam.



# CLEANLINESS DRIVE on 25/01/2019

The cleanliness drive was organized by the Goa Engineering College on 25th January 2019. The event began at 9:00 am and by noon the task at hand was over. Our staff and faculty of the Mechanical Engineering Department actively participated in this drive. The event was marked not only by the enthusiastic participation of students but equal involvement of the faculty. The work done included removal of plastic, paper wrappers and also weeding out of unwanted plants in the vicinity of Mechanical Engineering Department, Workshop and the Electrical substation. The collected garbage was sent to the Ponda Municipal Corporation for disposal. The students who participated were served refreshments as a token of gratitude. The students enjoyed themselves a lot and dispersed with a sincere hope that such events should be organized time and again giving students a window of opportunity to give back to society.



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# FIELD VISIT FOR FINAL YEAR FPC STUDENTS

An industrial visit to Putzmeister Concrete Machines Pvt Ltd at Verna IDC and Funskool India Limited at Corlim industrial estate was conducted by the Mechanical Department of Goa Engineering College on 14<sup>th</sup> March 2019. The students were accompanied by Professor Bhat Shankar Manohar. The objective of visiting Putzmeister Concrete Machines was to have a better understanding of various fluid power concepts and also to get acquainted with the working of the hydraulic power in the boom trucks. The students were received by Mr. Vishwanand Parab (Deputy Manager and Environment Health Safety officer). He gave them a brief description of the industry and its layout. Putzmeister started its plant in Goa in the year 2007 and used to export the M20 model concrete pumps to the US. Mr. Allan Diniz, the deputy manager guided them throughout the industry. The first department was the Batching Plant that was designed for capacities of 30 meters cubic per hour (MT0.5) and 60 meters cubic per hour (MT1.0). The batching plant process is entirely controlled by PLC. The next department was the welding section. Here the different parts of the boom pump truck arms made of high-strength steel S690 were welded. Mr. Malcom Pinto, in charge of the welding section, guided them on these processes. Most of the welding process was carried out using MIG welding. The welds were tested using Ultrasonic Testing. Mr. Vincy Lobo, in charge of the machining section, showed them the tool presetter and its working. Then they were shown the assembly of the hydraulic pumps for the trucks. The students also got to see the models along with the cut section of the variable displacement pump. Mr. Kapil Chari and Mr.Simon Diniz showed the working of boom pump trucks and BSA trailer pumps. The concrete was pumped using cylinders, hydraulic circuits, and PLC control.



#### FIELD VISIT FOR FINAL YEAR FRC STUDENTS

A field trip to **Amicas Structural & Fibre Glass Works**, Verna was organized for the students of final year Mechanical Engineering on Friday, 29<sup>th</sup> March 2019. The students were accompanied by Professor **Hari Chandekar**. The company specializes in the manufacturing of boat hulls using the hand layup technique made of glass fiber reinforced composites required for the marine industry. The Production Supervisor led the student's group to see the live boat-making process. The Production Supervisor held an interactive session with the students as he explained to the group the details of the hand layup processing technique. He began with briefing the group about the detailed procedure of hand layup technique, beginning with the application of several wax coats for easy release of the product at the end of the curing stage. He further explained the role of gel coat to be applied as the first layer and about the various fiberglass raw materials available in the form of chopped strand mat and woven roving of different areal densities. He later went on to explain the use of the Nomex honeycomb structure to be used for increasing the stiffness of the boat structure. He finally explained, in brief, the testing norms to be followed as per the Trip and Stability booklet. He mentioned the drop test and deflection test for the boat hulls.



#### FIELD VISIT FOR THIRD YEAR STUDENTS at MODERN PLASTIC

On Saturday, 30th March 2019 the entire class of third-year mechanical engineering students visited the Modern Plastic Industry located in Bethora Industrial Estate from 2 to 4 pm. The field visit took place under the guidance of Prof. Hari Chandekar and Prof. Mallikarjun Padashetti.

Modern Plastics Industries is situated in Bethora Industrial Estate and it deals with the making of assorted injection molded parts like containers, jars, networking and electrical components, pharmaceutical packaging, plugs, couplings for cables, marker pen body, and toys. It is an ISO-certified industry and a leading manufacturer of quality molded components. Each of the components that are manufactured by the industry has a separate injection molding machine for itself which is well maintained. The machines that were used for molding had different specifications for a suitable component such as the tonnage. The plastic bodies and caps of highlighters and markers that are sold by the renowned company Faber-Castell are manufactured in the modern plastics industry.

There were two units in this industry. In the first unit, all the plastic container caps, electrical components, etc. were made and it had a packaging unit where the finished products were stored and the second unit housed manufacturing of the Faber-Castell marker pens, nozzles, and caps. Apart from that, there was also a machine called Heat Transfer Film Printing Machine for Marker used for the printing company label and other details on the marker bodies. The performance of the injection molding machine is monitored every hour to ensure the high efficiency of the machine. Besides performance monitoring, a thorough quality check of the products is carried out before packaging to ensure the fine quality of products.



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#### FIELD VISIT FOR THIRD YEAR STUDENTS at MRF

On Saturday, 30th March 2019 the entire class of third-year mechanical engineering students visited the MRF-Goa Unit I located in Usgao, Ponda. The field visit took place under the guidance of Prof. Hari Chandekar and Prof. Mallikarjun Padashetti.

MRF is the largest manufacturer of tires in India and the 14th largest manufacturer of tires in the world. On arrival at the factory, a safety briefing was given to the students. Various safety measures to be followed by the group were explained followed by a refreshment session. The group was then taken inside the factory to show the entire tire-making procedure. The raw material for tires i.e. Rubber is taken in a Banbury mixer which mixes rubber (natural/ synthetic or recycled rubber) with different chemicals to soften the rubber and distribute the chemicals evenly. Different proportions of chemicals are used to produce different parts of tires. When the rubber sheets come out of the mixer they are sprayed with soap solution to prevent sticking of the sheets during storage. The next process was the making of the carcass which involves covering a nylon fabric with rubber coating on both sides. This component is necessary to prevent the pressurized air in the tire from deforming the sidewall of the tire. The process of forming beads also was explained. A bead is that part of the tire that holds the tire onto the wheel rim firmly. For the bead, copper-coated steel wires are rubber-covered in the shape of a ring. The rubber for the tire tread and sidewalls travels from the batch mixer to another type of processing machine called an extruder. In the extruder, the batch is further mixed and heated and is then forced out through a die to form a layer of rubber. Sidewall rubber is covered with a protective plastic sheet and rolled. Tread rubber is sliced into strips and loaded into large, flat metal cases.

In the end, the 4 components viz. carcass, sidewall, tread, and bead are assembled by an assembler to form a green tire. First, the carcass plies are wrapped on the drum and glued followed by fixing the bead in place and more plies on top and giving it a proper shape. Then the sidewall rubber plies and tread are mounted and glued properly and the assembled tire called the green tire is made in roughly 5 minutes duration. The green tire is then sent for curing. In the curing process, the green tire is mounted on a rubber balloon and kept inside a mold. Pressurized steam of up to 190 to 350 psi and 140°C is pumped inside the balloon which heats and inflates the tire to take the shape of the mold. Here the vulcanization reaction takes place. The cooling time for a tire depends on the weight of the tire, for example, a 50 kg tire takes around 45 minutes for cooling.

After curing the tire is shifted to Post inflation press to avoid shrinkage of nylon fabric within the tire. The finished tires are finally sent for quality checking.



#### **IIIE FOUNDATION DAY: TALK on "GREEN REVOLUTION"**

Indian Institution of Industrial Engineering (IIIE) Goa Chapter commemorated the foundation day on 28th January 2019 at Goa College of Engineering, (GEC) Farmagudi, Goa. Dr. Rajesh Mehrotra, Associate Professor, Department of Biological Sciences, Birla Institute of Technology and Science (BITS) Pilani Goa-Campus was the guest speaker for the occasion. Dr. Vinay Shirodkar, Secretary, IIIE Goa Chapter welcomed the speaker. Dr. Rajesh Mehrotra spoke on the theme "Green Revolution", which was declared by IIIE National Headquarters. In his talk, he introduced the key terms in green revolution to the audience and later stressed the need for precision agriculture in today's world. He gave the status on food requirement viz a viz population rise across the globe and our country. He highlighted the role of engineers in the Green Revolution and presented different problem areas in agriculture, which need engineering interventions. Prof. Suraj Marathe, Jt. Secretary introduced the speaker in appreciation of his talk. Dr. Suraj Rane, Chairman IIIE Goa Chapter compered this event and later proposed a vote of thanks. The talk was attended by IIIE Goa chapter members and students of GEC.



# Talk on "MANAGING LOGISTICS IN SUPPLY CHAIN ACROSS INTERNATIONAL BORDERS"

A value addition talk on "MANAGING LOGISTICS IN SUPPLY CHAIN ACROSS INTERNATIONAL BORDERS" was delivered by Dattaprasad Bhonsle, Senior Vice President SCM, Capricon Logistics Pvt. Ltd. The talk was organized for the third-year and final-year Mechanical students. **Prof. Mahesh Caisucar** and **Prof. Gajesh Usgaonkar** were the faculty coordinators. Dr.Vinay Shirodkar, HMED welcomed the speaker. Principal Dr. Krupashankara M.S. briefly stated the recent trends in supply chain management in the industries. Around 150 participants were present from Third year and Final year Mechanical Engineering students. The session began with an explanation of basic concepts, importance, and relevance of supply chain management and logistics management to the industries. They mentioned the rules & regulations, imposition of taxes, and how logistics management in the supply chain occurs across international borders.

The resource person had systematically put forward his content with the use of presentation slides and video clips. The audience was enlightened on various recent trends, innovations, research occurring in supply chain management. The speaker also made students aware of many jobs and educational opportunities in this field. There was active quality interaction with the audience. This was followed by questions from the audience to which the speaker responded. A memento was presented to the speaker.



#### **RELEASE OF NIRZER 16**

NIRZER 16 was released in the presence of Mr. Dattaprasad Bhonsle, Senior Vice President SCM, Capricon Logistics Pvt. Ltd., Dr.Vinay Shirodkar, HMED, Prof. Bindurao Kulkarni, and Prof. Mahesh Caisucar.





## TALK on "EXPLORATION AND PRODUCTION OF HYDROCARBON IN INDIA"

On Monday the 18<sup>th</sup> of February 2019, the Mechanical Engineering Department under value addition program organized a talk on the topic "Exploration and Production of Hydrocarbon in India", from 11:00 am to 1:00 pm in the Academic Hall of Goa College of Engineering. The Guest speaker for the program was Dr. S.K Chattopadhyay, retired Deputy General Manager of Oil and Natural Gas Corporation. **Prof. Gajesh Usgaonkar** and **Prof. Mahesh Caisucar** were the faculty coordinators.

Dr. S.K. Chattopadhya explained how hydrocarbons are formed with all their necessary environmental condition. He spoke on "How to detect the Oil Reservoir present under the earth crust". He also spoke on the different methodologies used to extract the crude oil with various stages involved in its processing.



#### Talk on "PAPER PLANES: CONCEPTS and MODELS"

Cmdr Narayanan, retired Indian Navy personnel delivered a talk on concepts of aerodynamics and how to make working paper plane models. Cmdr Narayanan gave a live demonstration of flying PAPER PLANES and also gave an idea of the basic design features of a plane. **Flt. Lt. B. R. Kulkarni** and **Prof. Gajesh Usgaonkar** were the faculty coordinators.





#### ALL GOA KONKANI QUIZ COMPETITION

The 7<sup>th</sup> "Advocate Arun Singbal memorial quiz competition" was held at the academic hall of Goa College of Engineering. **Prof. Gajesh Usgaonkar** was the coordinator from GEC. The function was inaugurated by Dr. Krupashankara M. S., Principal, GEC, and Mr. Chetan Acharya President Kokani Bhasha Mandal. A total of 45 teams from all over the state participated. Goa University emerged as the champions and NIT Goa was the runner-up, GVM'S Dada Vaidya College of Education got 3<sup>rd</sup> place and Nirmala Institute of Education got 4<sup>th</sup> place. North Goa deputy collector Mr. Gurudas Desai was the chief guest for the concluding function. He along with Mrs. Deepa Singbal, Mr. Chetan Acharya gave away the prizes. Mr. Swetang Naik of "The Quiz Labs" was the quiz master.



#### **ISHARE: ACREX TECHNICAL EXHIBITION at BOMBAY**

**Dr. Jaganath Hirkude** arranged and participated in ACREX Technical Exhibition at Bombay Exhibition Centre with ISHARE student's member (T.E. Mechanical) from 28/02/2019 to 04/02/2019.



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#### ALL INDIA ESSAY WRITING COMPETITION

**Prof. Gajesh Usgaonkar** was the GEC coordinator for the All India Essay Writing Competition organized by Shri Ram Chandra Mission in collaboration with United Nations' Information Center. Miss Risha Hegde, a third-year Mechanical student of Goa Engineering College was the winner.



6<sup>TH</sup> PROF. UDAY AMONKAR MEMORIAL LECTURE on "IOT & IIOT: PERILS & PROMISES"

Indian Institution of Industrial Engineering (IIIE) - Goa Chapter organized the 6th Prof. Uday Amonkar Memorial Lecture, at Goa College of Engineering (GEC), Farmagudi on 3rd May 2019, which is the foundation day of the Goa Chapter. This is also the birthday of Prof. Uday Amonkar, who was faculty in the Mechanical Engineering Department of Goa College of Engineering and was a veteran in the Industrial Engineering field in the state of Goa.

The Memorial Lecture titled "IoT & IIoT: Perils & Promises" was delivered by Prof. G. Raghurama, Director, BITS Pilani KK Birla Goa Campus. Prof. G. Raghurama discussed various benefits of IoT (Internet of Things) in the consumer durable industry and IIoT (Industrial Internet of Things). The growth of IoT over the years was also highlighted with real-life cases. Finally, the peril of the technology was discussed. The event was graced by Prof. Vivek Kamat, President IIIE Goa Chapter and Director of Technical Education, Government of Goa, Dr. Krupashankara M. S., Principal, GEC, office bearers and members of IIIE-Goa Chapter, faculty and students of Mechanical Engineering Department. The event began with paying homage to Prof. Uday Amonkar. On this occasion video message of Dr. B. L. N. Sastry, ex-Professor, Mechanical Engineering Department, GEC, was played where he briefed the audience on his association with Prof. Uday Amonkar and the contribution of Prof. Amonkar in Industrial Engineering at GEC. Dr. Suraj Rane, Chairman, IIIE-Goa Chapter introduced the guest speaker Prof. G. Raghurama and Dr. B. L. N. Sastry. Dr. Vinay Shirodkar, Secretary, IIIE Goa Chapter proposed a vote of thanks. The event was compered by Prof. Suraj Marathe, Jt. Secretary, IIIE Goa Chapter.



# STUDENTS OF T.E. (MECH) DEPUTED FOR INTERNSHIP IN JANUARY 2019

<b>C N I</b>	NANAE	DOLL NG		CTART	END	DUDATION
SN	NAME	ROLL NO	COMPANY	START	END	DURATION
1	Hegde Risha Milind	151102020	Marvel Industried, Pillarne Industrial Estate,	26-12-2018	09-01-2019	14
3	Gautam Bhat	161102003	TATA Service center, N.D. Naik,Fatorda, Margao,Goa	01-01-2019	14-01-2019	13
4	SunayDharwadkar	161102009	Bosch Ltd. Verna, Goa	18-12-2018	04-01-2019	17
5	DiprajDhuri	161102010	Toyota Sharayu, Karaswada, Mapusa, Goa.	24-12-2018	07-01-2019	14
7	Ezbon Fernandes	161102013	TATA Service center, N.D. Naik,Fatorda, Margao,Goa	01-01-2019	14-01-2019	13
8	GautameshGaonkar	161102014	Toyota Sharayu, Karaswada, Mapusa, Goa.	24-12-2018	07-01-2019	14
9	AgneshGhadi	161102015	Goa Shipyard Ltd.	02-01-2019	13-01-2019	11
10	Sachin Govenkar	161102017	Toyota Sharayu, Karaswada, Mapusa, Goa.	24-12-2018	07-01-2019	14
11	Atharv Joshi	161102020	Putzmeister India Pvt. Ltd., Kundaim Industrial Estate,	22-12-2018	05-01-2019	14
12	KedarDicholkar	161102023	Goa Shipyard Ltd	31-12-2018	11-01-2019	11
13	SanketMadkaikar	161102029	Putzmeister India Pvt. Ltd., Kundaim Industrial Estate,	24-12-2018	05-01-2019	12
14	NichalMajik	161102032	Toyota Sharayu, Karaswada, Mapusa, Goa.	24-12-2018	07-01-2019	14
15	Trisco P.J. Moniz	161102036	Goa Rajee Auto Pvt. Ltd.,Nuvem, Goa.	03-01-2019	15-01-2019	12
16	Amey Naik	161102037	Putzmeister India Pvt. Ltd.,Kundaim Industrial Estate,	23-12-2018	05-01-2019	13
17	Rahul Naik Borker	161102039	Goa Shipyard Ltd.	02-01-2019	13-01-2019	11
18	Piyush Chavan	161102048	TATA Service center, N.D.Naik,Fatorda, Margao,Goa	01-01-2019	14-01-2019	13
20	Pratik Gaonkar	161102052	TATA Service center, N.D.Naik,Fatorda, Margao,Goa	01-01-2019	14-01-2019	13
21	Shahzeb Shaik	161102057	Bosch Ltd. Verna, Goa	18-12-2018	04-01-2019	17
22	Gaurav Shirodkar	161102060	Toyota Sharayu,Karaswada, Mapusa, Goa.	24-12-2018	07-01-2019	14
23	Vivekanand Tendulkar	161102066	Goa Shipyard Ltd	31-12-2018	11-01-2019	11
24	Kishor Velip	161102067	Bosch Packaging Ltd.,Verna,Goa.	02-01-2019	16-01-2019	14
26	Aniketh Aeer	171202002	TATA Service center, N.D.Naik,Fatorda, Margao,Goa	01-01-2019	14-01-2019	13
27	Loston M. D'Costa	171202004	Dhavlikarautomobiles, Dhavli- Ponda-Goa.	26-12-2018	12-01-2019	17

28	Prathamesh Gauns	171202005	Dhavlikarautomobiles, Dhavli-	27-12-2018	12-01-2019	16
	AL ISCUL PROVIDE	and a line	Ponda-Goa.	e	159.400	1. 1. 1. 1.
29	Aswin Kumar P.	171202008	Goa Shipyard Ltd.	02-01-2019	13-01-2019	11
30	Savio Pereira	171202011	Bosch Packaging	02-01-2019	16-01-2019	14
			Ltd.,Verna,Goa.			

# STUDENTS OF T.E. (MECH) DEPUTED FOR INTERNSHIP IN JUNE/JULY 2019

SN	NAME	ROLL NO	COMPANY	START	END	DURATION
1	Aaron Fernandes	131112006	Siemens Ltd., Verna Industrial Estate, Verna-Goa	24-06-2019	06-07-2019	12
2	NideshMahalunkar	161102030	Chowgule Industries Pvt. Ltd.,Karaswada-Mapusa- Goa.	21-06-2019	04-07-2019	13
3	Suhedh Shirodkar	161102062	Chowgule Industries Pvt. Ltd.,Karaswada-Mapusa- Goa.	21-06-2019	04-07-2019	13
4	Shreyas SudinAmbe	171102001	Putzmeister Concrete Machines Pvt. Ltd.Verna Industrial Estate,Kesarvale- Verna-Goa.	24-06-2019	06-07-2019	12
5	AntaoDesmon	171102002	Muktar automobiles, Mahindra, Verna Industrial estate, Verna-Goa	18-06-2019	13-07-2019	25
6	SarveshBelgaonkar	171102005	Chowgule Industries Pvt. Ltd.,Karaswada-Mapusa- Goa.	21-06-2019	04-07-2019	13
7	Srinil Bhosale	171102006	Vedanta Ltd.MetcokePlant,Amona- Bicholim-Goa.	01-07-2019	12-07-2019	11
8	Aloysius Anthony Caeiro	171102007	Putzmeister Concrete Machines Pvt. Ltd.Verna Industrial Estate,Kesarvale- Verna-Goa.	24-06-2019	06-07-2019	12
9	Correia Ashford	171102008	Muktar automobiles, Mahindra, Verna Industrial estate, Verna-Goa	18-06-2019	13-07-2019	25
10	PrathameshDhulapkar	171102009	Chowgule Industries Pvt. Ltd.Campal-Panaji-Goa.	01-07-2019	12-07-2019	11
11	Fernandes Keith Infantus Miguel	171102013	Muktar automobiles, Mahindra, Verna Industrial estate, Verna-Goa	18-06-2019	13-07-2019	25
12	Letscio Fernandes	171102014	Volkswagon (Mody Auto. Corp.)Verna Industrial Estate,Verna-Goa.	01-07-2019	12-07-2019	11
13	Prajyot Gaonkar	171102016	Chowgule Industries Pvt. Ltd.,Karaswada-Mapusa-	21-06-2019	04-07-2019	13

Ī	2011			Coo	1 Carry of		Construction of
	14	Dranau Calatkan	171102020	Goa.	01-07-2019	12.07.2010	11
	14	Pranav Golatkar	171102020	Chowgule Industries Pvt. Ltd.Campal-Panaji-Goa.	01-07-2019	12-07-2019	11
	15	Prajyot Kalangutkar	171102023	Goa Shipyard	24-06-2019	06-07-2019	12
			80.000	Ltd.NewVaddem-Vasco-		1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Carles .
	1		and along	Goa.Goa Instruments	5	" almader	and the second
2	300		The second second	Industries Pvt. Ltd.		C. La C. La	
5	16	Kanekar Srikant	171102026	Muktar automobiles,	18-06-2019	13-07-2019	25
8	-2	Nandkishor	WE TONY	Mahindra, Verna Industrial	35 -2 12	1 1 1 1	5 -2 12
	and y		Send Series	estate, Verna-Goa			State of the second
	17	Sarvesh Kerkar	171102028	Goa dairy,Kurti-Ponda-Goa.	24-06-2019	06-07-2019	12
	18	Sairaj Kolvalkar	171102029	ACGL ,Honda-sattari-Goa.	24-06-2019	06-07-2019	12
	19	Rajat Kudnekar	171102030	Chowgule Industries Pvt.	21-06-2019	04-07-2019	13
			E CARA	Ltd.,Karaswada-Mapusa-		N	
	a all	and a state of the second	Mary Malan	Goa.	States and the	" along a fight	the states
	20	Landge Shahid Sadik	171102033	Muktar automobiles,	18-06-2019	13-07-2019	25
			States in the	Mahindra, Verna Industrial	- ALC ALK		SN ARE
		11-25	110-7-94	estate, Verna-Goa	25 - 21 1/	1.	5 - 1 11
	21	Sidharth Madkaikar	171102034	Chowgule Industries Pvt.	01-07-2019	12-07-2019	11
		The sector of th	The State	Ltd.Campal-Panaji-Goa.	201 2 22	and the second	1
	22	Rahul Mahale	171102035	Chowgule Industries Pvt.	01-07-2019	12-07-2019	11
	-		and the second	Ltd.Campal-Panaji-Goa.	and the second	Sector Sector	Street T
	23	GhoshankMandrekar	171102036	ACGL, Honda-Sattari-Goa.	27-06-2019	10-07-2019	13
	24	DattarajManerikar	171102037	ACGL,Honda-Sattari-Goa.	27-06-2019	10-07-2019	13
	25	Anshul Naik	171102041	Goa dairy,Kurti-Ponda-Goa.	24-06-2019	06-07-2019	12
2	26	Sanat Naik Gaonkar	171102042	Chowgule Industries Pvt.	01-07-2019	12-07-2019	11
		10 10 10 10 10	100	Ltd.Campal-Panaji-Goa.	35		5 20 20
	27	Sahil naik	171102044	Goa dairy,Kurti-Ponda-Goa.	24-06-2019	06-07-2019	12
	28	Oliveira Jovan	171102046	Muktar automobiles,	18-06-2019	13-07-2019	25
ì	1		Star Star	Mahindra, Verna Industrial	1001300 24	20.25	10000
	20		474402047	estate,Verna-Goa	24.06.2010	42.07.2040	10
	29	Bhavik R.PagiMirashi	171102047	Goa Shipyard	24-06-2019	12-07-2019	18
-		stall a little and	Station 12	Ltd.NewVaddem-Vasco-	a ser a ser	1 2 3	the second
	20	Sabil Tulchidae Darah	171102040	Goa.	19.06.2010	02 07 2010	14
	30	Sahil Tulshidas Parab	171102048	ACGL ,Honda-sattari-Goa.	18-06-2019	02-07-2019	14
5	31	Shreyas Krishnakant	171102050	Goa Shipyard	01-07-2019	12-07-2019	11
-		Patil	The second	Ltd.NewVaddem-Vasco-		JEX-RUE	
	32	Sumay Patil	171102051	Goa. ACGL,Honda-Sattari-Goa.	27-06-2019	10-07-2019	13
	33	Harsh Damodar Phadte	171102051	Goa Shipyard	24-06-2019	12-07-2019	13
	33	Harsh Danioual Pliaute	171102052	Ltd.NewVaddem-Vasco-	24-00-2019	12-07-2019	10
			S. C. State	Goa.		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	1 6 1 6 0
3	34	Hrithik Pilgaonkar	171102053	KinecoLtd.,Pilerne Industrial	26-06-2019	10-07-2019	14
	57		1,1102033	Estate, Pilerne-Bardez Goa.	10 00 2015	10 07 2015	
8	35	Rahul Redkar	171102056	Creative Manufacturing	01-07-2019	13-07-2019	12
				Solutions (I) Pvt.			State
T			1. 15C	Ltd.,Ganesh Nagar-		150,000	ALL STREET
			1000	WafoliRoad, Banda-		a starter	- 22/17
	-		and the second	Sawantwadi-Maharashtra.		and the second	
	36	Kevin Ribeiro	171102057	Volkswagon (Mody Auto.	01-07-2019	12-07-2019	11
	-	a state of the sta	Service -	Corp.)Verna Industrial	A State of the second	mala del	
				Estate, Verna-Goa.		1218-12	
		A service and all and	A series	The second second	AN DIR	Size T	23

	37	Sarolkar Neeraj alias Amol Uday	171102058	Putzmeister Concrete Machines Pvt. Ltd.Verna Industrial Estate,Kesarvale-	01-07-2019	12-07-2019	11
	38	Shashank Sawant	171102059	Verna-Goa. Chowgule Industries Pvt. Ltd.,AcoiVillage,Mapusa Goa.	24-06-2019	06-07-2019	12
Nor 200	39	Rohit Shenoy	171102061	Vedanta Ltd.MetcokePlant,Amona- Bicholim-Goa.	01-07-2019	12-07-2019	11
	40	Rudran Sinai Pissurlencar	171102062	MRF Ltd.,Usgao-Ponda-Goa.	26-06-2019	13-07-2019	17
	41	Swadesh A. Dessai	171102063	Goa Shipyard Ltd.NewVaddem-Vasco- Goa.	24-06-2019	12-07-2019	18
	42	TanayNagvekar	171102064	ZayaniMotors,Sitra,Kingdom of Bahrain	01-07-2019	13-07-2019	12
	43	Tushar Pradeep Verlekar	171102067	Goa Shipyard Ltd.NewVaddem-Vasco- Goa.	24-06-2019	12-07-2019	18
	44	Vyshakh Prakashan	171102068	Cochin Shipyard Ltd, Cochin, Ernakulam, Kerala	17-06-2019	12-07-2019	27

# STUDENTS OF B.E. (MECH) DEPUTED FOR INTERNSHIP IN JUNE/JULY 2019

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	NAME	ROLL NO	COMPANY	START	END	DURATION
SN		200		12-22-22	1200	
1	Shubham Ballikar	161102002	MedizestPharaceuticals Pvt.	20-06-2019	04-07-2019	14
1.23	PERSONAL PROPERTY AND	AT CELL	Ltd., Verna Industrial	Self- Lang		
	Calleland Child	1120 111	Estate, Verna-Goa.	Carlo all	Carlaland.	Carlo March
2	Leyden Dias	161102011	Shanta Pumps, Ambaulim-	24-06-2019	06-07-2019	12
			Cuncolim Industrial Estate,		1.2.2.2	
3	Gandhish Faldessai	161102012	Shanta Pumps, Ambaulim-	24-06-2019	06-07-2019	12
and a		ALL AND	Cuncolim Industrial Estate,	A State	2 1 5 1	N. Start EL
4	Deelip Govenkar	161102016	MedizestPharaceuticals Pvt.	20-06-2019	04-07-2019	14
			Ltd., Verna Industrial	1	and the second	
	A State State		Estate, Verna-Goa.		A series	a fail a state
5	Rahul Babuso Naik	161102039	DhavalikarAutomobiles,Dha	01-07-2019	13-07-2019	12
1	Borker	1120011	vali-Ponda-Goa.	1	Destate of	and a set
6	Kishor Chitrigemath	171202003	Goa Shipyard Ltd.,	01-07-2019	13-07-2019	12
			NewVaddem-Vasco-Goa.		1.2.2.2	
7	Loston M. Da Costa	171202004	Lift Controls Pvt. Ltd.Murdi-	01-07-2019	13-07-2019	12
and a		ALL AND	Khandepar-Ponda-Goa.	A State	2 1 5 1	N. Start
8	Aswin Kumar P.	171202008	DhavalikarAutomobiles,	01-07-2019	13-07-2019	12
			Dhavali-Ponda-Goa.	1	A Carl	
9	Savio Pereira	171202011	Goa Shipyard Ltd.,	01-07-2019	13-07-2019	12
1.50		ALC: NO	NewVaddem-Vasco-Goa.	S. LALAS	1	
10	Zibern Correia	161102007	Shanta Pumps, Cuncolim-	24-06-2019	06-07-2019	13
-		- Antone	Industrial Estate, Ambaulim		19 A 87	
-	The second second	1.0 1.0				

# lvinghighwithpaperp



RAMANDEEP KAUR | NT KURIOCITY

fiten considered as just child's play, making paper is has now turned a fuil-fledged com-on, And Dr Shyama d Mukherjee Sta d Mukherjee Sta taleigao recently issed the return of sth edition of Red Paper Wings 2019-per plane competi-) per plane competi-after a gap of four The tournament around 160 parti-ts from across Goa

In both the categories-ing distance and ions where the work champi-aritime. The participants prepared ardistically de-signed page farmes to signed page farmes to als at national level. Ornar Rai and Shall college of Engineering, signed page to the tonget distance and is respectivel, and will be crowned. Distance inglist category ornar hal and Shall college of Engineering, signed in the trial stage emerged triumphant in the event isone with ongets a triumphant in the second the page to signed and the category ornar and shall when the interest of the trial stage emerged triumphant in the second the top the second the trial stage will then move on the represent india at the second final in Austria

My only strategy was to make the plane thick and pointed so that it doesn't so out of the gangway." He adds that there are four types of forces that act on the plane while it is in motion. These forces are as follows: Thust, it che force which pushes the plane forward through the air; Dras 1 is It is in motion. These forces are as follows: Thrust, le the force which pushes the plane forward through the air; brag, ie the force which resists the forcward motion of the plane through the air; tational force that pulls the plane downwards, and Lift, the counter force against gravity Omkar Rai and Shahid Landge from Goa College of Engineering, Ponda won the Goa Qualifiers of Red Bull Paper Wings 2019. They will now compete at the national finals in April. NT KURIOCITY gets more details

**Goa Qualifier Results** Longest Distance- Omkar Rai- 25.2 metres Longest Airtime- Shahid Landge - 5.49 seconds

which lifts the plane. "One of the most import-ant factors that decide the range of the plane is the shape of it wings," adds Omkar. While no prize was awarded for qualifying for the pational finals. ds Omkar. While no prize was varded for qualifying r the national finals, nikar says that after nning at that atter anging at the sound of the globally. Only after ming atobally the win-r will be sponsored a wen day travel

er will be sponsored is even day travel across urope, 'he informs. Meanwhile, Shahid, a scord year mechanical agineering student, de-kided to register for the vent after noticing the mouncement at his col-ge event 'happenings. E participated in but the airtime category locking 5,49 seconds. made the paper plane in the airtime category clocking 5.49 seconds. "I made the paper plane with basic knowledge

and it took me around five minutes to make it, he says. Echoing Omkar's words, Sharid also says that the plane design should be such that the four force are balanced, then only plane will have long distance and airtime. Shahid says that

About the competition Red Bull Facer Wings is a global paper plane cham-porning paper to students. The idea of the compet-tion is simple, students must make a plan isterior the air as possible. All national winners of the three categories - Longest Distance, Longest Artime and Acrobatics are then invited to the world final in Austria at the iconic Hangar 7, where the world All the realized reacting an ordinary commen-All the equipment needed is an ordinary, o cial sheet of paper with a strong dose of tional folding abilities as well as creativity, ation, and a grasp of basic aeronautic rules an ordinary, comme

qualifying for the na-tional finals has mo-tivated him to perform better going forward "1 always try to further improve the dynamics of the plane, if it does not get the desired res-ults," he says.







Published By	Editors
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Printing Assistance:	NIRZER
Prof. Gajesh Usgaonkar	VOLUME 9 ISSUE 1
Let a surrent the second	10 and the second se