

PESU VOICE



BoG

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Message



"I am happy to note that the PES University newsletter, PESU Voice is initiated. This showcases the numerous curricular, co-curricular and extra-curricular accomplishments of each Department. I wish the team great success."



"PES University has always encouraged diverse activities in various fields. This newsletter will bring to the fore the achievements and current events of the departments in a concise manner. I wish the team all the best."



"As we have been discussing PESU as a hub of various activities, the PESU Voice envisages bringing a snapshot of them all to you. I'm glad to present the first copy of PESU Voice and welcome more suggestions towards making PESU Voice a compelling piece that all of us look forward to in the coming issues. "

PES University

People's Education Society (PES) founded in the year 1972 has strived incessantly for imparting quality education in the fields of Architecture & Design, Engineering, Medicine and Management. The infrastructure, faculty and teaching-learning processes are in sync to make the student capable to the future pursuits of life. PES UNIVERSITY was established as a private

University in the state of Karnataka vide government notification No. ED 85 UNE 2013 dated 19-11-2013. Government of Karnataka published PES UNIVERSITY ACT-2012 of Karnataka Act 16 of 2013 (which received the assent of the Governor on the fifth day of February 2013 and first published in the Karnataka Gazette Extraordinary on seventh day of February 2013) under clause (3) of

article 348 of the constitution of India in the Karnataka gazette for general information on Thursday, May 16, 2013. The campus of the university is 100 Feet Ring Road, BSK III Stage, Bangalore- 560085 and it is spread over an area of 25 Acres 26 Guntas that is highly conducive to learning. It is a green campus located right in the heart of Bangalore, providing numerous location-based advantages.

Feature Story: PISAT-Nano-Satellite University

PISAT, a Nano-Satellite has been designed and developed by 250 PES University's students and has been handed over to ISRO for launch in the month of September 2016.

“Situating in PESU University’s rich and intense educational environment, the program emphasizes the interconnected relationship between architectural design, building technology, computation, history, theory and criticism of architecture and art.”

Faculty of Architecture & Design

B. ARCH PROGRAM

Guest Lectures

- Mr. Ganesan from Clay Station, a Bangalore-based creative clay studio demonstrated to the students of Architecture and design the history and various techniques of ceramics. The students were excited to see the demonstration of the techniques. They were shown a glimpse of the skills they would be developing during the course.



- Mr. Prabin Pebam, Head of Design at Belong.co addressed the students on Interaction design 12th August 2016. He presented the role and scope of design in future of interactions like virtual reality and augmented reality. Students interacted with Mr. Prabin to understand the specific skills a future interaction designers should acquire.



Events

- FoA is entrusted with preparing the university Annual Report, 'PESU Pragati 2016'
- FoA is entrusted with preparing the university newsletter. 'PESU Voice', for the durations, May- Aug 2016

INTERNATIONAL DAY OF YOGA ON 21st June 2016

- Professor Apurva Prasanna conducted a week long yoga workshop for the faculty of PES University. This was organized to commemorate the Second

International Yoga Day on 21st June



Ceramics Program

- The students of architecture were introduced to Ceramics from 8th August to 29th August 2016. A month long program, where they practiced techniques like coiling, pinching and slab techniques. The final products were fired in our in house kiln and were exhibited.



INDUSTRIAL VISITS

- Visvesvaraya Industrial and Technological Museum (VITM), Bangalore, a constituent unit of National Council of Science Museums (NCSM), Ministry of Culture, Government of India invited FoA for visit on 23rd July 2016. FoA was introduced to the approach behind finalizing the categories and content of exhibit, and the process of design and development of exhibits. Both teams discussed about possible collaborations in future regarding exhibition and space design.



NANDI HILLS VISIT ON 16th June 2016

- Faculty of Architecture and Design visited Nandi Hills which is an ancient hill fortress in southern

India, in the Chikkaballapur district of Karnataka. A study of history of the hills and Bhoga Nandeeshwara temple, built during the Chola period was undertaken.



- Extended weekdays display exhibition coverage – Offering practical and application oriented degrees, students have generated multiple models, conceptual sketches and renderings. FoA regularly arranges exhibitions of works on extended weekdays to induce peer learning. An extensive display spanning the whole FoA floor covering the works till ISA-1 attracted large number of visitors.

Conferences/Workshops conducted or attended

'MATERIALIZE' WORKSHOP

- Professors Anuradha N. , Suman Devadula and Ninada Kashyap attended a one day workshop on 27th May 2016 by “Materialize” a provider of 3D printing software and services in a variety of areas like industries -health care, automotive etc. The participants were introduced to a software by Materialize called “Magics 2.0” which is a smart, versatile data preparation and STL editor software for 3D printing and Additive Manufacturing equipped with a customizable, intuitive user



Faculty of Architecture & Design

interface. This software guided the steps of Additive Manufacturing (AM) and 3D printing workflow.

FLUID DESIGN WORKSHOP- 16-20th August 2016

- Fluid Design workshop was conducted by Ar. Sobitha Ravichandran from Zaha Hadid architects, London along with our in house tutor Ar.Ninada Kashyap.



80 students of B. Arch and B. Design from PES University had participated in this workshop where they were introduced to the basics of softwares like Rhino and Grasshopper. The participants parametrically designed and fabricated lampshades with the laser cutting machine and were exhibited by the end of the



workshop. 10 Professionals from various design fields had also participated in the workshop and fabricated futuristic furniture pieces. The Workshop concluded with a presentation from Ar.Sobitha Hadid's works in various parts of the world.

TERRACOTTA JEWELRY WORKSHOP - 26th August 2016

- Artist Mangala conducted a one day Terracotta jewelry workshop for the B. Arch and B. Design students and faculty. The students were enthusiastic to create and explore jewelry making in this medium and created innovative pieces of jewelry.

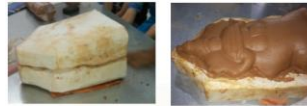


"MAKE YOUR OWN ECO-FRIENDLY GANESHA" WORKSHOP ON 27th August 2016

- Students and Faculty participated in the "Make your Own Eco-Friendly Ganesha" workshop. Everyone made their own Ganesha with 3kgs of earth clay by creating a basic form using a mould. They later added a personal touch to the idol

using simple clay modeling tools to decorate and finish it.

What better way to celebrate than spending some quality time with clay and making a sustainable choice.



Achievements

Students

- Learned a new parametric software Rhino and fabricated futuristic lamps from the laser cutting machine.
- Underwent an extensive course on Ceramics and made their own eco- friendly Ganesha for the festival.

"The Department's extensive offerings reflect the program's commitment to the cultural, social, technological and ecological issues of the built environment. Committed to a rigorous and interdisciplinary approach throughout the program, our students are challenged to be creative, innovative, and responsible leaders in the field. The program is planned to engage new ways of thinking about architecture and architectural education."

“Observing the importance that ‘design’ could bring to pedagogy and the integration of mainstream disciplines in engineering and the arts, Design at PES University aims to be the best in the country. The first-batch commenced from August 2016 within the undergraduate program.”

Faculty of Architecture & Design

B. DESIGN PROGRAM

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- Mr. Ganesan from Clay Station, a Bangalore-based creative clay studio, demonstrated various techniques of working with ceramics. The students were excited to see the skills that they would be developing during the course.



Events

- FoA&D is entrusted with preparing the university Annual Report, ‘PESU Pragati 2016’
- FoA&D is entrusted with preparing the university newsletter. ‘PESU Voice’, for the durations, May- Aug 2016



- Professors Sudarshan Pandurang, Suman Devadula, and Blsheshwar Haorongbam had participated in the International Yoga Day, 21st June 2016 at PESU.

CERAMICS PROGRAM

- B.Des students were introduced to Ceramics from 8th August to 29th August 2016, where they practiced techniques like coiling, pinching and slab making. The final products were fired in our in house kiln and were exhibited.



- Students made their own eco-friendly festival Ganesha on undergoing an extensive training on ceramics.

- Extended weekdays display exhibition coverage – FoA&D regularly arranges exhibitions of works on extended weekdays to induce peer learning. An extensive display spanning the whole FoA&D floor covering the works till ISA-1 attracted large number of visitors.

INDUSTRIAL VISITS

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Conferences/Workshops conducted or attended

‘MATERIALIZE’WORKSHOP

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Faculty of Architecture & Design

provider of 3D printing software and services in a variety of areas like industries -healthcare, automotive etc.



• Prof. Bisheshwar Haorongbam, Prof. Pramod Khadilkar, Prof. Sudarshan Pandurang and Prof. Suman Devadula attended a National Seminar 'Technovision – 2035' on 17th September 2016 at Visvesvaraya Industrial and Technological Museum, Bengaluru. This seminar released Technology vision for the information and



communication technology (ICT) for the next 20 years. Contributors for the vision document presented the future technology paradigms based on the different application sectors like, education, transportation, medicine etc. This Technology Vision is crucial to introduce the future possibilities for design students.

•A workshop on Fluid Design was conducted by Ar. Sobita Ramachandran during 16th - 20th August 2016. Students and Faculty of



B.Des took active part in it and prototyped their designs at the end of the five-day intensive sessions. Students learnt the basics of modeling using Rhino and Grasshopper, designed and modeled futuristic lamps with them and fabricated them using the Laser Cutting m/c.



Achievements

Students

• B.Des student, Shruthi Venkat's poem titled, 'The Stages of a Dream', was selected at 'The Bengaluru Poetry Festival', held during 6th - 7th August, 2016 and is now part of the anthology, 'Poetry', published by Raindrops and released at the festival.

"Despite being a preferred service destination, India also has a strong manufacturing base that is being promoted very well through the 'Make in India' campaign. Experts believe that it is a matter of time before 'Make in India', foremost means 'Designed in India'. The design degrees on offer prepare students with the skills to design tangible and intangible products and making these within India would mean contributing to the national cause."

“The B.E. in Computer Science and Engineering program is designed to create globally competent manpower for the information and communication technology (ICT) industry. At the same time, it is also designed to prepare the student for post graduate education in the best universities across the globe.”

Faculty of Engineering

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

Guest Lectures

• Ms. Neha Raje, Software Development Engineer and PES Alumnus gave a Guest Lecture on Computer Networks on 04th August 2016

• Mr. Sriram Madhavan, PES Alumnus and student of Stanford University, USA gave a guest lecture on Data Science Applications, Basics and Domains on 19th August 2016

• Ms. Supriya Vijay, PES Alumnus and student of Carnegie Mellon University gave a Guest Lecture on Applications of Data Science on 19th August 2016

• Mr. Ananya H A, Data Scientist in Flipkart and an Alumnus of PES gave a Guest Lecture on ‘Dealing with High Dimensional Data’ on 27th August 2016

• Ms. Nagashree, MTS at VMWare and PES Alumnus gave a Guest Lecture on ‘Virtualization Concepts and VMWare Products’ on 27th August 2016

• Mr. Chiraag Sumanth, PES Alumnus and student of Stanford University, USA gave a Guest Lecture on ‘Profile Building for Higher Studies’ on 27th August 2016

STUDENT INTERNSHIPS

• 23 students underwent Summer Internships in 5 universities abroad during the summer of 2016:

- Ecole Polytechnic
- UIUC, Urbana Champaign
- Carnegie Mellon University
- University of Southern California
- Brown University

Achievements

Faculty

• Prof. Chidambara K. was invited as a resource person for the conduction of one day workshop on “CompuMusic – Indian Light Music Generation using Audio

Programming Language” in July 2016 organized by Computer Society of India, Bangalore Chapter.

Events

FACULTY OUTBOUND ACTIVITY

As a part of Faculty Development Programme (FDP), to fetch better bonding between the Teaching staff, to understand the skills and talents of the faculties of the Department, an Out Bound Activity was planned for the Faculty of Computer Science and Engineering Department. on the 24th July 2016 (Sunday), the Staff (teaching and non teaching) headed to Mango Mist Resorts, Anekal Bannerghatta Road.



The staff of the department actively took part in various team building activities like Cricket, Volley Ball, Throw Ball, Football, Shuttle Badminton, Carrom Board, Chess and Table Tennis. This helped in better bonding between the team. Also many adventurous games were a part of the Out Bound Activity like: Rock Climbing, Tree Surfing, Pyramid Walk, Multi vein, Russian Ladder, Burma Bridge, Archery. Not just this, the Faculty team also actively took part in Zipline, Water Roller, Water Zorbing and Land Zorbing activities. Among these adventurous and tiring activities was the delicious food to cherish. With some energy gained, the team was then set back to continue the adventurous and fun filled team-out of the year. With some swimming session and misty dance, the day came to an end. The return journey

of the team was filled with fun, laughter, songs, games and a lot of memories.



INDEPENDENCE DAY ALUMNI MEET

On the 15th of August 2016, we at Department of Computer Science and Engineering, along with staff and crew of entire PES University celebrated our 70th Independence Day. At sharp, 8:30 am, the event started with a welcome Address followed by the Flag Hoist. It always is a proud feeling for every Indian to sing our National Anthem as the Flag flies high. One among such proud moments is to see all our successful Alumni back in our Campus to celebrate the National Festival. The Alumnus shared their success stories among the faculty and friends. This interaction for quiet long as the success stories of the Department and its alumnus is never ending.

Publications

Journals

• Nitin V Pujari, Nagashree N, “A Tutor Assisting Novel Electronic Framework for Qualitative Analysis of a Question Bank” in International Journal on Computers in Human Behavior, Vol 65, 2016

• Kavi Mahesh, Chandramouli Shama Sastry, Darshan S. Jagaluru, “Author Ranking in Multi Author Collaborative Networks” in COLLNET Journal of Scientometrics and Information Management on 20th June 2016.

Faculty of Engineering

DEPARTMENT OF BIOTECHNOLOGY

Conferences/Workshops conducted or attended

- Dr. Prashantha Karunakar participated in 2-Day hands-on Workshop on "Python programming," co-organized by ECE and MCA Departments of PES University from 11th - 12th July 2016
- Dr. Prashantha Karunakar participated in Faculty Development Program on "Computational Tools for OMICS

data Analysis" organized by the Biotechnology Department and Department of Computer Applications at M.S. Ramaiah Institute of Technology, Bangalore from 13th - 14th July, 2016.

Achievements

Faculty

- Dr. Uma M. V : Co-Investigator, commercialization of PES Pebrine Solution (PP Solution)
- Dr. Sasmita Sabat: Editorial board member for Journal of Enzymology and Metabolism, Open Science Publications.

• Dr. M.S. Dinesh: Visiting Researcher for Labmatz Research Centre on Soil Health, Germany from 2015-18.

• Dr. Jhinuk Chatterjee : Invited as external member of BOE, UG and PG, Dept. Biotechnology, DSCE.

Projects

- Dr. M.S.Dinesh (PI) and Dr. V. Krishna Murthy (Co-PI) are working on a project titled "Molecular characterization of anti-cancerous peptides from Eudrilus Euginiae", sanctioned by the Rajiv Gandhi University of Health Sciences, Bangalore.

"Biotechnology is the culmination of Life Sciences and Engineering resulting in technologies. These are exciting times for Biotechnology as it is considered the area that can solve sustainability issues for the human mankind."

DEPARTMENT OF CIVIL ENGINEERING

Guest Lectures

- Guest Lecture on "Design of Reinforced Concrete Structures" by Prof. Geetha- EWIT was arranged for 5th semester on 9th August 2016
- Guest Lecture on "Strength of Materials" by Prof. H.R. Manjunath-RVCE was arranged for 3rd semester students on 7th September 2016 and 3rd & 19th October 2016.
- Prof. B. V. Ramesh and Prof. P.

Ramachandra attended Two day International Seminar on "Modern Materials & Methodology for Concrete Construction" held on 23th - 24th September 2016 at Bangalore.

- Guest Lecture on "Design on Flanged Beams" by Dr. G. S. Suresh, NIE Mysore was arranged for 5th semester students on 8th & 19th October 2016.
- Guest Lecture on "Concrete Mix Design" by Prof. Sridhar Revankar – BASF India Ltd., was arranged for 5th semester students on 8th October 2016.

• Guest on "Structural Analysis" by Prof. H.R. Manjunath-RVCE on 7th October 2016 was arranged for 5th semester students.

Events

- Site visit to Vrushabhavathi Valley Sewage Treatment Plant on 24th September 2016 for 3rd semester students.



"The objective of the Department of Civil Engineering is to create professionally superior and ethically strong students. The department aims to be world class with state of art facilities and excel in academics and research activities."

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Events



Throughout the semester the Department conducted fun filled EWD activities in which students actively participated.

Conferences/Workshops conducted or attended

- Melisa Miranda, "FDP in DSP" organized at IIT-B
- Vanishree P, "FDP in DSP" organized at IIT-B
- M Rajasekar, "Smart Mobile Kit" organized at MSRIT, Bengaluru
- Melisa Miranda, "Workshop in

Digital Controllers for Power Electronic Converters and Systems" organized at PES (EEE Dept)

- Dr. T. S. Chandar, "Workshop in Advanced Topics in Control Systems" organized by Sri Jayachamarajendra College Engineering (Dept of ECE), Mysuru.

Publications

Journals

- Dr. Raghavendra G Kulkarni, "Applying a Mobius transformation for solving quadratic equations",

"This BE program is geared towards developing graduates who have the ability to work in multidisciplinary environments with a strong research orientation, and recognize the importance of lifelong learning in the field of Electronics and Communication Engineering."

Faculty of Engineering

The Mathematical Scientist (Applied Probability Trust, UK), Vol. 41, No. 1(June 2016), pp. 16-20

• Dr. Raghavendra G Kulkarni, "Split and crack the quartic", Eureka(Cambridge Mathematical PSociety, UK), Accepted to appear

in the forthcoming issue(2016)

• Dr. Vamshi Krishna, "A two stage approach for network constrained unit commitment problem with demand response", IEEE Transaction on Smart Grid, Accepted

• Dr. B. Niranjan Krupa, "Recognition of emotions in Autistic Children using psychological signals", Springer, Health and Technology, July, 2016. DOI: 10.1007/s12553-016-0129-3

"Electrical and electronic engineering covers a wide range of general engineering principles and concepts. The branch tackles major global issues in: Transport, Energy, Healthcare, Telecommunications. This branch of engineering aims at Changing the world with revolutionary technology, improve people's lives around the world and solve the planet's energy needs. This program is a degree program that is industrially relevant, a well-paid and rewarding job when you graduate."

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Guest Lectures

• Mr. Ashwin, GE Bangalore lectured about "Present day applications of Embedded systems and FPGA in industries", on 02nd July 2016

• Mr. Kaushik, Director, Technovention Labs, Bangalore lectured about "Concepts of verilog coding for designing EVM" on 23rd June 2016

• Dr. Selva Kumar, Synopsis Technologies, Bangalore lectured about "FPGA Architecture and its applications" on 18th June 2016

• Mr. Rajendra Prasad, MD, ESA, Bangalore lectured about, "Present day trends and applications of FPGA on 15th June 2016

• Mr. Raghunandan, VP, Kotak Urja Ltd. lectured about "Research directions in solar domain on 02nd June 2016

Events

Conferences/Workshops conducted or attended

• Faculty development programme on "Health & Wellness", organized by Department of ECE, PES University

• TEQIP II sponsored workshop on "RTOS based embedded systems on NuVONTON MC140

• Preethi S J attended, "Summer school on music science and technology research (MuSteR 2016)", IISc Bangalore

• During 15th June to 2nd July2016,

a 20 day summer course on "VERLOG coding and Projects using FPGA for industrial applications" was conducted.



• During 20th June to 2nd July2016, a 2 week hands-on workshop on "Power Converters for Photovoltaic Applications" was conducted and the workshop outcomes were implemented in Department

• During 11th & 12th July2016, a 2 day hands on workshop on "Python Programming for Scientific Computing" was conducted providing exposure to tool boxes of python such as numpy, scipy matplotlib, pyqt.



• During 11th 19th & 20th July2016, an IUCEE-IGIP Pre Certification Program Pedagogy training workshop was conducted for young faculty members of PES University



Achievements

Faculty

• Dr. T. S. Chandar has worked as Session Chair at International Conference on Industrial Instrumentation and Control organized by Department of Instrumentation & Control, college of Engineering Pune

Students

• Rajasekar Mohan awarded the best product design award for "Remote Surveillance and Smart Stock monitoring Robot using Internet of Things"

• Rajasekar Mohan Chaired the session on "Smart Technologies-2" at the National Conference on Product Design (NCPD 2016) held at MSRTI Bangalore

Publications

Journal

• Prasanna Kumar & M Mahesh, "Interleaved DC-DC converter with novel isolation switch", Asian Journal of Engineering & Technology Innovation, Issue 3, July 2016.

Conference

• M Mahesh & Anand Rao, "Elevator Drives Energy Analysis with Duty loads and Behavior in Dynamic Conditions in Proc. IEEE-EmergiTech-2016, 2nd & 3rd August 2016.

Faculty of Engineering

DEPARTMENT OF COMPUTER APPLICATIONS

Guest Lectures

- Dr. Viraj Kumar, Professor, PES University has delivered a lecture on Reflections on the ACM/IEEE Computer Society Curriculum Guidelines (2013 & 2016 Draft) on 16th June 2016.
- Ms. Hema Shaw from IBM has delivered a lecture on Digital Disruption on 18th August 2016.
- Dr. Gururaj Karajagi has delivered a lecture on Quality in Teaching Learning Process on 19th August 2016 in association with BITES



Events

Conferences/Workshops conducted or attended

- A two-day workshop on “Python Programming for Scientific Computing” was conducted in association with ECE and EEE Departments during 11th and 12th July, 2016. Three faculties of the Department, Dr. Neelam Bawane, Dr. A. Lekha and Ms. P. Lolika were the resource persons for several sessions. 50 students and faculty members of various departments were benefitted.
- Community Development Program (CDP): A training program on Computer Basics was conducted from 4th July to 23rd July, 2016 for school/college dropout students, in-house office assistants and attenders. Along with the disseminating knowledge on computer basics, hands-on training was given on MSOffice, Internet & Baraha. 27 participants were

benefitted out of this. Mr. P. Sreenivas, has coordinated the program and Faculties Mr. B. S. Chengappa, Mr. P.Kannan, Mr. Santosh Katti and Ms. Archana from the department were the resource persons.

- Certification Program: A certification program (on-going) on Software Testing using Selenium is conducted by Dr. A. Lekha from 30th July, 2016 onwards. Students from different departments are participating in this.

Publications

Conference

- S. Thenmozhi, D. Uma & K. Vikram, Quantifying Yield Gap of Rice Production in various regions of Karnataka, Proceedings of Fifth IEEE International Conference on Cloud Computing in Emerging Markets, 2016, In Press.

DEPARTMENT OF MECHANICAL ENGINEERING

Events:

Lectures delivered by faculty

- Prof. V Srinivasan gave Expert lecture on “Geometric Dimensions & Tolerances” at BMS College of Engineering, for the faculties on 18th & 19th August 2016.

Conferences/Workshops conducted or attended:

- Mrs. Sowjanya & Mrs. Rekha N attended two day workshop on “Materialise Magics Training” conducted by Materialise N V, organized by Faculty of Architecture and Design, PES University on 26th and 27th May 2016.
- Dr. Suneel M & Mr. Diwakar Reddy attended the “First Structural Integrity Conference on Fatigue &

Creep” organized by NAL Bangalore, IISc Bangalore & IIT Madras during 4th – 6th July 2016.

- Dr. C V Chandrashekhara, Mr. Karthik B K & Ponangi Babu Rao attended ten days workshop on “FEM Theory of Programming” at IIT Hyderabad during 14th – 24th July 2016
- Mr. Shivakumar Hiremath & Mr. Ullas had attended a five day workshop on “Machining Dynamics” at IIT Kanpur during 18th & 22nd July 2016.
- Mr. Kiran M attended “2016 India ATCx Hyper Works” conference organized by Altair, Bangalore on 21st July 2016.
- Prof. V Srinivasan, Dr. N Rajesh Mathivanan and Dr. D Sethuram, conducted and coordinated two day workshop on “Tolerance Stack up Analysis” organized by Department of Mechanical Engineering, PES University on 8th and 9th August, 2016. The workshop was inaugurated by Shri. Jayarama T. Director, Karnataka German Technical Training Institute, Bangalore. Dr. K S Sridhar, Principal PESIT and Dr. V Krishna, HOD Mechanical Department also graced the inaugural ceremony.
- Mrs. Sowjanya & Mrs. Rekha N attended two day workshop on “Tolerance Stack up Analysis” organized by Department of Mechanical Engineering, PES University on 8th and 9th August, 2016.

“The Department of Mechanical Engineering has an aggressive academic rigor in the autonomous program with a high quality curriculum.”