

PESU VOICE



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Message



"I am happy to note that the PESU Voice showcases the numerous curricular, co-curricular and extra-curricular accomplishments of each Department."



"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."



"As we have been discussing PES University as a hub of various activities, the PESU Voice envisages bringing a snapshot of them all to you."

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 on 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: Amaatra Summer Internship Project

The management of PES University offered the summer internship project to the 1st year students of Faculty of Architecture & Design.

This was a step to encourage the students to train in design thinking, problem solving and to embrace real-life situations while providing innovative solutions. The summer of 2017 held a challenge for the students – to design the primary school spaces at 'The Amaatra Academy', a unit of the PES Educational Group.



The internship period spanned five weeks in June and July, during which the faculty members and students stayed on-site and worked in teams to achieve the final goal.



The project comprised of several classrooms, play areas, dining spaces, transitional zones and other crucial elements of an

educational campus. With the superstructure of the spaces already built, the design problem was to transform the built spaces into a fun learning and interactive space leading to holistic development of every young student.



Focus was given to encourage the multiple intelligences and also the inclusion of elements of their syllabus into the design of the space.



Faculty of Architecture & Design

B. ARCH PROGRAM

GUEST LECTURES

- Mr. Sameer from Sony Technologies conducted workshop on photography and videography. It was an inspiration and informative session for budding photographers.



- Muldev India Private Limited: Mr. Praveen Singhri, the managing director introduced the world of Decals to the students and faculty and offered internship opportunities to students during vacations.

- NJM Production: They are a video production company in Bangalore, They narrate stories very creatively through heart touching videos and animations.



Their work ranges from corporate show reels, corporate interviews, promotional events, candid shoots,

wedding videography, live shows, product demos, short films etc. They also offered opportunities for student internships during vacations.

CONFERENCES/ WORKSHOPS ATTENDED

- **MASA Annual Event 2017:** "Design Matters" is a platform created by MASA who invite Architects and Designers to present talks which are open to the Bangalore audience. This is being done wholly to generate awareness, particularly among young professionals and students, about contemporary and emerging trends in Architecture and Design.



The day session consisted of five talks by Architecture BRIO, SUBvisionary, Supermachine Studio, Sumanth Jayakrishnan and Tetsuo Kondo Architects.

EXTENDED WEEKDAYS

- FOA regularly arranges exhibitions of student works on extended weekdays to induce peer learning. The extensive display spanning the whole FOA floor attracts large

number of visitors. It exhibits the design process through multiple models, conceptual sketches and renderings.

SITE VISIT

- The students of the B.Arch program were taken for a one day study tour to the temple town Melukote, in Karnataka, known for its great heritage and religious significance.



The key features of Melukote are its water distribution system and vernacular style of architecture.



The students were asked to study streets, residences and map the function of the spaces to their users. They gained a deeper understanding of the values relevant to the socio-cultural context in Architecture.

"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



• The students were taken to the construction site to understand the techniques used to construct footings and scaffolding.



INDUSTRIAL VISIT

• **HMG** is a leading manufacturer of stone in south Asia. Students of B.Arch program were invited to their Bangalore industrial unit. The facility is fully automated to maintain high quality standards in large scale production. The visit also included an interactive session with the renowned Italian Designer **Andrea Milani**.



• The students visited the **ACETECH** at BIEC that was held from 6th to 8th October, 2017. It was the largest annually held exhibition in India on

Architecture, Construction, Engineering, Building Materials and Allied Sectors. The exhibition provides an authoritative representation of every sector in architecture and design and shows the latest innovations in the construction industry.

• A mobile display unit from **Somany Ceramics Limited** was put up on 11th August, at PES University. The students of B.Arch were given a live demo of their products and services.



EVENTS

• **Constuction Yard:** Students were given Brick and Mortar to construct brick masonry walls and arches to understand various brick bonds such as English L Junction, Flemish Cross Junction and Brick Arch.



The hands on experience helped the students understand the techniques of wall construction better.

• On the occasion of **'Bootstrap 2017'**, 1st Sem students of B.Arch program were taken on a Bangalore Darshan tour, which included popular architecture and design attractions, National Gallery of Modern Art, Visvesvaraya Industrial and Technological Museum, Regional Design & Technical Development Centre, Art village during the 1st week of the semester.

The aim of the tour was to orient the new students towards the local architecture and culture.

• **Lamp Making:** For the festive occasion of Diwali, the students of B.Arch program used various recycled materials to make Diyas. Different techniques such as pinching, coiling, slab methods and laser cutting were used. The students plan to gift these beautiful Diyas to the management, all the chairpersons of various departments and to faculty in FoA of PES university.



FACULTY ACHIEVEMENTS

• **Ar. Apurva Prasanna, Ar. Sharmila Vishnupriya** and **Mr. Bhimappa Pattar** coordinated the Amaatra Summer internship program held in June- July 2017. The dean provided valuable suggestions which helped in completing the project presentation.

• **Mr. Bhimappa Pattar** was selected by "Shilpakala Academy Bangalore" and approved to attend the 10 day "Contemporary Art Wood Camp" at Mysore.

"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."

STUDENTS ACHIEVEMENTS

- 23 students from 3rd semester enrolled in the Amaatra summer internship program.
- Bridge IT was a competition held by the Civil Department during their fest 'Samnivesa'. Students were asked to design a Prototype Bridge using 10 Balsa sticks within 2 hours. A team of three students, Supreeth S Kumar, Risha Anil and Rishab Chandra from the B.Arch program won the 1st place. The Winning bridge withstood a load of 37.5 Kgs before collapsing.



- Aishwarya Patwari of 3rd semester was selected for summer internship at "Ambiencia" an interior design firm.
- Sneha Baid of 3rd semester was selected for summer internship at "Design Cafe" an interior design firm.

• Supreeth S Kumar of 3rd semester was selected for a summer internship at "Axis Vantage" as a graphic designer.

• Sneha Baid got selected for Tech Top National Innovation workshop organized by IIT Delhi and MIT.

• Roshini Pushparaj was selected to intern with Axis Vantage as a content writer. She also represented the company in the July BNI conference.

• Roshini Pushparaj received a commendable mention in the Wingword Short Story prize 2017, organized by Delhi poetry slam.

Faculty of Architecture & Design

"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."

B. DES PROGRAM

GUEST LECTURES

- Mr. Bharath Kumar, Canon India Pvt. Ltd - Regional Operations Division conducted workshop on "How to improve your photography skills" which covered details like - Introduction to photography, Categorization of photography subjects, Choosing the right equipment, Visualization & Composition. The practical session was handled by Mr. Karthick Kumar from Canon India.
- Mr. Sameer from Sony Technologies conducted workshop on Photography and videography. It was an inspiration session for budding photographers.



WORKSHOPS ORGANIZED

- The workshop on 'Design Thinking', by Mr. P. P. Giri, on 13th September from 1PM to 4PM, was attended by forty five B.Des students and five B.Des faculty. This was jointly conducted by BITES and FoA&D, PES University. The

required material for the workshop was provided by PES University.



The participants were asked to prototype their design concept with the materials provided.



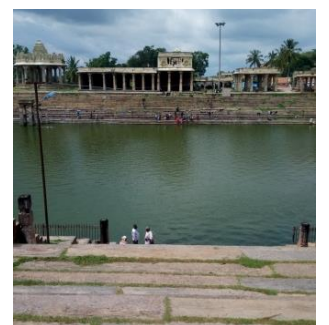
Seeking inputs from partners and coming out with prototype was emphasized by the facilitator. The importance of the iterative process of design was emphasized.



SITE VISITS

• **Melukote study tour** - The aim of the study tour was to observe and understand lessons taught in class. The curriculum coverage of the courses like Measured drawing, Photography and Spot sketching of 1st semester students were undertaken.

Observation and Analytical studies as part of Design Methods and Creativity, Study of Indian Design for Graphic Design studies for the 3rd Semester students was also undertaken.





Students of communication design documented the visit and produced good quality short films.

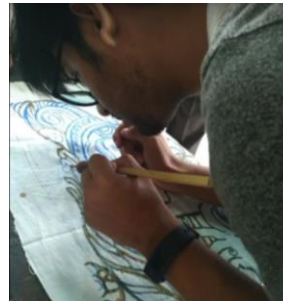
Products like calendars and lamps representing the architecture and culture of Melukote were also

designed.

FACULTY ACHIEVEMENTS

- Dr. Suman Devadulla organized a 1 day visit for the 1st semester B.Des students to Visvesvaraya Industrial and Technological Museum.
- Mr. Sudarshan Pandurag arranged a visit and demonstration at Regional Design & Technical Development Centre Bengaluru.
- Mr. Sudarshan Pandurag arranged a visit and demonstration at National Gallery of Modern Art, Bengaluru.

- Mr. Sudarshan Pandurag, Dr. Suman Devadulla, Mr. Ganesh S and Mr. Puttarangachar coordinated the Amaatra Summer internship program held in June- July 2017 for the B.Des.



Faculty of Engineering

DEPARTMENT OF BIOTECHNOLOGY

GUEST LECTURES:

GUEST LECTURES ARRANGED UNDER AEGIS OF JEEVASRUJANA

- Mr. Tapojit Dey, Novozymes, delivered a talk on use of enzymes in industry on 4th September 2017.
- Mr. Shubham Dutta, Syncorp, delivered a talk on "Clinical trials and opportunities" on 11th Sept, 2017.



- Mr. Mahesh R.V, (Alumnus, Batch 2006-2010) Founder of Spirulina Foundation, Tumkur delivered a talk on "Entrepreneurship opportunities in the field of Biotechnology" on 25th Sept, 2017.



- Dr. V. Krishnamurthy, Registrar, PES University, delivered a talk on

research article" on 25th Sept, 2017. GUEST LECTURE DELIVERED BY FACULTY

- Dr. Prashantha Karunakar delivered a talk on "Ayurinformatics - a rational approach for drug discovery" and trained the members of faculty at New Horizon College of Engineering, Bangalore.

SEMINAR/ WORKSHOPS/ CONFERENCES ORGANIZED

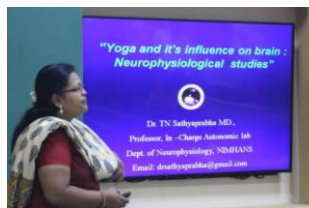
- Seminar and Student-Scientist Interaction on **Modeling and Research in Neuroscience** was conducted on 18th and 19th August, 2017. On the first day, the seminar had several resource persons speaking of the current research in Neurosciences. **Dr Marieke van Vugt**, Assistant professor in the cognitive modeling group, University of Groningen, Netherlands presented a talk on "Creating a mind-wandering computer? The use of computational models to better understand cognition".



- Talk on "Complexity Theories of Consciousness" was delivered by **Dr Nithin Nagaraj**, Consciousness Studies Program, National Institute of Advanced Studies, IISc Campus, Bengaluru.



- **Dr.T.N. Sathyaprabha**, Professor in the Department of Neurophysiology at National Institute of Mental Health and Neuro Sciences (NIMHANS) delivered a talk on "Yoga and its influence on brain: neurophysiological studies".

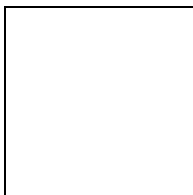
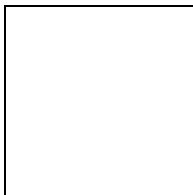


- **Happiness Program**, a Faculty Development Program was conducted by The Art of Living Foundation, Bengaluru from 24th to 26th July 2017. 20 faculty members of PES University participated in the event.

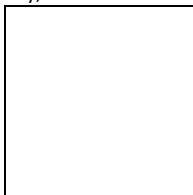
"Biotechnology is the culmination of Life Sciences and Engineering resulting in technologies. These are exciting times for Biotechnology as it is considered the area that can solve sustainability issues for the human mankind".

Faculty of Engineering

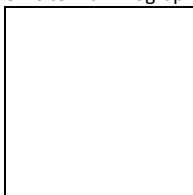
"The vision of the Department is to create graduates who can solve biotechnological problems through innovative solutions and integrated approach".



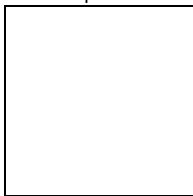
- **Blood typing camp** for determination of blood groups was conducted for the house keeping staff of PES University on 13th of July, 2017.



- **Breast Cancer Detection Camp** in association with Poornasudha Cancer Foundation was conducted for all women employees of PES University on 5th August 2017. Mammography was conducted inside the 'MOM Express' (Mobile On-site Mammography).

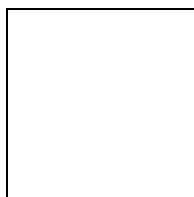


- **Industrial Biotechnology Workshop** on High Performance Liquid Chromatography was organized in association with Rubizon (Industry on affordable commercial processes for natural products) on August 19, 2017. Mr. Sai Srikar Kandukuri and Mr. Vikrama N. Prabhu were the resource persons.

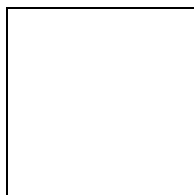


- **Workshop on Next generation sequencing** and its applications in

collaboration with Interpretomics was conducted on 19th August 2017. Mr. Senthilkumar T., Senior application specialist – Genomics was the resource person.



- An interaction session between the Foundation for excellence India Trust student outreach executives and students of PES University was arranged on 31st August 2017. 30 students attended the two hour interactive sessions.



WORKSHOPS ATTENDED

- Faculty participation in workshops: Ms. R.V.Kavitha and Dr.Prashantha Karunakar participated in three-day sponsored Faculty Development Program on Teaching Learning Process at IIT Madras organized by TLC-IIT Madras in June, 2017.

- Dr. Seema Tharannum attended a workshop on 17th July, 2017 at IHR training centre, Lalbagh, Bengaluru.

- Dr. M.S. Dinesh, Dr. Sasmita Sabat, Mr. Sunil Kumar C and Ms.R.V.Kavitha attended one day hands-on training program on GC-MS and HPLC at Vittala Mallya Reserach Foundation, Bengaluru on 13th July 2017.

OUTBOUND ACTIVITIES

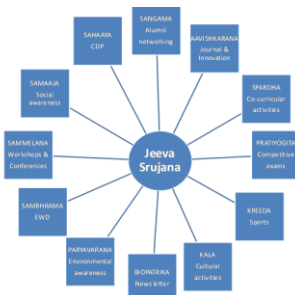
- As part of Outbound activity, the teaching and non-teaching staff of the department visited Shilhandara Resorts on 30th July 2017.



EVENTS

- Jeeva Srujana, the Biotechnology Club was inaugurated with the main objective to create a common platform for enthusiastic engineers to learn and share knowledge.

The main goal of the Club is to provide a platform for students to gather, to interact, learn, network and to work as a team. "Jeeva Srujana comprises of 12 clubs catering to different domains like, music, sports, community service, workshops, literary and academics.



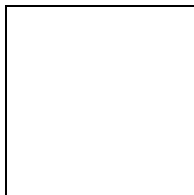
- The club was inaugurated by **Dr. Ramananda Nadig**, President & Deputy Dean at CREMA India Private Limited on 14 August, 2017. He addressed the students by recalling his wonderful journey in the field of science right from being a student to where he is today.

The core team members of each domain were announced and a Faculty member was assigned to guide the student body.



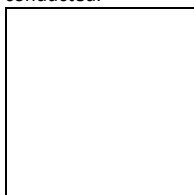
Various events like Biotechnology quiz, Pictionary, cultural events and guest lectures were organized as part of club activities.

Faculty of Engineering

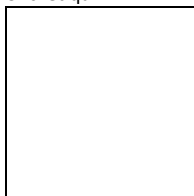


EXTENDED WEEKDAY ACTIVITIES

- Various events like Carrom, Cricket quiz, Mini Militia, Carrom for teachers on Teacher's day, Clash Royale, Treasure Hunt, Work of Art Painting Competition and Bollywood Antakshari were conducted.



Cricket quiz



Carrom competition for teachers on Teachers' day.

ACHIEVEMENTS OF DEPARTMENT

- Department signed an MoU with DNA Skew Private Limited, an industry on Drug Discovery to support training and research activities. This is an initiative of Dr.Prashantha Karunakar.
- Biotechnology Skill Enhancement Program (BiSEP):
The department was granted BiSEP program which is sponsored by the Department of IT, BT and S&T, Government of Karnataka and supported by ABLE and DBT, Government of India. BiSEP is a two-semester program with 6 months classroom teaching, followed by 6 months industry internship. The students receive a fellowship of Rs.10,000/- per month for 12 months.

FACULTY ACHIEVEMENTS

- Dr. K.N. Shanti, Chairperson of the department as member of

Governing Body and Governing Council, Inter University Centre for Astronomy, Pune and Astrophysics and Inter University Centre in Atomic Energy, Indore attended the Governing Board Meetings in June 2017.

STUDENT ACHIEVEMENTS

- Amritha K.Bhat, Meenakshi A. and Varsha Gadiyar of 7th Semester were selected for BEST (Bio engineering summer training), an interdisciplinary Programme in Bioengineering at Indian Institute of Science, Bangalore from 15 May to 15 July 2015.
- Vidya M.S. (5th Semester) and Deepthi Pai (7th Semester) were selected for Indian Academy of Sciences Summer Fellowship hosted by IISc, Bengaluru in June-July 2017.
- Mufassira Rahman (7th Semester) was selected for Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR) Summer Fellowship in June-July 2017.
- Veena S, Simran Sharma, Bhoomika Reddy, Shivani and Shreya Chengappa of 7th Semester were selected for Summer Internships at Arizona State University in June-July 2017.
- Sushma Ram of 3rd Semester won bronze in 100m hurdles and gold in 4 X100 m relay at State Level Dasara Sports meet. Earlier she had won Silver in 100m hurdles and Gold in 4 X100 m relay at Bangalore Division level Dasara sports meet.
- Rahul Radhakrishnan of 7th Semester was part of PES University Football Winners Team in SLCU DECENNIAL held in Christ University from 14th to 16th of September. Karthik and Abhiliash of 5th Semester under the guidance of Dr. Sasmita Sabat and Ms.R.V.Kavitha presented a paper on "Biosorption of hexavalent chromium by agriculture waste using mutated strain of bacteria" at International Conference on current trends in Biosciences at Cochin on 21st to 23rd August 2017.

- Vinolia, Diya Ganapathy of 5th Semester and Shreya Patwari of 7th Semester attended BRSI conference in Nagpur on 8th to 10th October 2017.

Shreya Patwari of 7th Semester under the guidance of Dr. Sasmita Sabat presented a paper on "Nanoparticles as an enhancer for the plastic degradation process by *A. niger*" at International Conference on "Emerging trends in Biotechnology for waste conversion at Nagpur held from 8th to 10th October 2017.

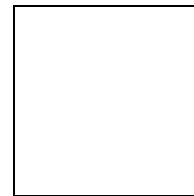
- Suhas G. Of 7th Semester presented the topic "Use of enzymes and microorganisms in addressing food production to feed a growing global population" in Voice for BT contest organized by Novozymes and ABLE at Sastra University, Tanjore on 11th September 2017.

- Akhila, Ashwini, Bhagyashree, Eshani, Gayathri, Heeba, Hema and Kavya of 5th Semester attended workshop on "Analytical training in instrumentation" at Mount Carmel College on 30th and 31st August 2017.

- Varsha and Raveen of 5th Semester participated in National Symposium on "Future of functional genomics (Trans-disciplinary Genomics-1) held on 13th and 14th October at Trans Disciplinary University, Bengaluru.

- As part of Gifted Student Program, students were nominated to participate in Mini-Symposium on 'New Ideas in Biology' conducted by Indian Academy of Sciences on 29th July, 2017 at IISc, Bangalore.

Akshay Udayashankar, Anukriti Sinha, Anusha Prakash, C S Neethu, Divya Mahesh, Nainika R, Neha, Saarik and Vishakha Ramamurthy from 4th Semester and Shreya Patwari from 7th Semester attended the symposium along with Dr.Jhinuk Chatterjee, Assistant Professor.



Faculty of Engineering



ENGINEERING

GUEST LECTURES ORGANIZED/ CONDUCTED

• Dr. K V Subramaniam, Professor in the Department of Computer Science delivered a lecture on "Delving into Deep Learning", at Zebra Technologies, Bangalore, on 24th July, 2017.

• Dr. K V Subramaniam, Professor in the Department of Computer Science delivered a talk on "Challenges in using accelerators via programming languages", Inaugural Keynote, Eclipse Foundation Summit in July 2017.

• A guest lecture was delivered by Mr. Chid Kollengode on Big Data in August 2017.

• Prof. H B Prasad delivered a talk on Cyber Security at Project Management Institute (PMI footprints event) on 31 August 2017 at Hotel Royal Orchid central , Manipal Towers.

• Prof. H B Prasad delivered a talk on "Director Guidance on Corporate Fraud & Cyber Security" to the 186th batch of Master class for Directors, organised by the Institute of Directors (IOD) on 01 Sept 2017 at Hotel Royal Orchid central , Manipal Towers.

TECHNICAL TALKS

• Technical talks were conducted by many esteemed faculty members of the department on a wide variety of topics.

Dr. K V Subramaniam - Practical Challenges in Research on 22nd July, 2017



Dr. K Rajanikanth - Machine Learning on from 12th - 16th June, 2017.

Dr. Dinakar Sitaram - Life in Research on 21st July, 2017.



Dr. Viraj Kumar - Data Structures and Introduction to Data Science on 15th July, 2017.

Mr. Apurba Das - Image Processing on 17th June, 2017.

Dr. Ramamoorthy Srinath - Machine Learning on 19st - 25th July, 2017.



Prof. H B Prasad - Cloud Computing on 26th July, 2017.



• Faculty members of the department visited IIT Chennai to attend an FDP on Teaching in July 2017.

• A one day workshop on IoT was conducted by VmWare in July, 2017. Approximately 150 participants took part in the workshop.



• VTU, in association with Google India Pvt Ltd, hosted a one week FDP on Android Application Development, hosted by the Department of Computer Science and Engineering, PES University from from July 10th to 14th, 2017.

Selected faculty members from various engineering colleges in Karnataka were given the opportunity to attend the workshop.



• A course on "Systems and Security" Security" was conducted by Prof. Sabin Mohan, Research Assistant Professor, Dept. of Computer Science, Information Trust Institute, University of Illinois at Urbana-Champaign for the students of fifth semester.

• A workshop on "Design Thinking" was conducted by Mr. Aayush Agarwal and Ms. Manisha Shekhar as as part of the Bootstrap program for for students entering the first semester from 31st July - 5th Aug, 2017.

• A workshop on "Cloud Computing

"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."

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Faculty of Engineering



Research at Microsoft".

- A "Coding Interview Hands On Workshop" was conducted for PES students by Mr. Sridhar Jeyachandran from Google.



- IDS Hackathon was conducted to test the Analytical and the Visualization Skills acquired from the Introductory Course on Data Science on 16th Sept, 2017.



- Intel Nervana AI Workshop - This program was conducted to ignite interest in the student community about AI, where they were provided training on the latest optimized frameworks, access to tools, workshops and webinars. The students had exclusive access to Intel cloud hardware and were able to work as Student Ambassadors with leadership opportunities.



- Prof. H V Srinivasa Murthy attended a one day IEEE Workshop on "AI and Deep Learning" in Sept, 2017.

EVENTS

The Alcoding Club, initiated by Prof. Channa Bankapur, conducted its first activity for faculty members. The faculty members participated in



- Prof Ramesh Jain, Professor at University of California, Irvine visited the PES University campus in June, 2017, to review projects under the Center for Cloud Computing and Big Data (CCBD).

- A Course on "Analysis and Thinking" was conducted by Prof. N S Kumar, Professor in the Department of Computer Science and Engineering, PES University, for students entering the first semester from 24th - 29th July, 2017.

- The Alcoding Club conducted an online coding contest for PES students.



- A new initiative "Peer Teaching" was introduced as part of SASP where students are guided by their peers in a wide variety of courses.

ACHIEVEMENTS OF DEPARTMENT

- An MoU was signed with Huawei to start the "PES Huawei Innovation Lab". An initial funding of Rs. 15 Lakhs was received in August, 2017.

- A Japanese delegation visited the campus on 7th July, 2017, for discussions regarding collaboration with PES University for internships and recruitments.

- Dr. S Natarajan, Professor at the Department of Computer Science was invited by Dr. Ramesh Jain to visit the Computer Science Department at University of California, Irvine. The cooperation between PESU and UCI were discussed. PESU students who were summer interns there

the performance of summer interns and showed keen interest to continue it. He also mentioned that the students of PESU are quite superior from the students of other Indian universities.

- "Center of Excellence - Information Security, Forensics and Cyber Resilience" was started by Prof. H B Prasad, Professor in the department.

The Center Of Excellence aims to provide students and staff the necessary facilities to test and understand the practical aspects of information security existing and emerging areas.

- Several clubs like "For Open Source" (FOS), Game Modding, Game Developments, TEDx and ACM Student Chapter were initiated.

- QWave Inc. engineering and hardware design services known for its strong expertise in high speed board design, visited the campus. Meetings were conducted with the company exploring collaboration.

- Ms. Pamela Kumar from the TSDST visited the campus in Sept, 2017.

- Discussions were held with IBM in view of collaboration with PES University for industry interactions.

FACULTY ACHIEVEMENTS

Dr. Viraj Kumar, Professor, Department of Computer Science has been selected as a Scientific Secretary to contribute to the Draft National Education Policy, Government of India.



Faculty of Engineering



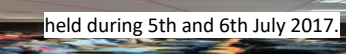
- The Center for Data Science and Applied Machine Learning (CDSAML), headed by Dr. Shylaja S was initiated to facilitate research among students and faculty members in the domain of Data Science and Machine Learning on 6th June, 2017.
- An article about the research of Dr. Jayashree R, Professor, was published in the Indian Express, July 8th Edition.
- Dr. Jayashree R, Professor, was invited as an interview panel member for the staff recruitment at KSSEM, Bangalore and she obtained life membership at Linguistic Society of India.
- Dr. Jayashree R, Professor, was a member of LIC (Local Inquiry Committee) of VTU, during May-June 2017.
- Dr. Jayashree R, Professor, was invited as a judge for the National level seminar on 'Digital Connectivity ' on Sept 15th, held at St. Francis College, Bangalore.
- Dr. Jayashree R, Professor, was invited as an external expert for the conduction of interviews for promotion of scientists of DRDO, Govt of India.
- Dr. Jayashree R, Professor, delivered a guest lecture on 'Data Analytics' at Kristu Jayanti College, Dept of PG Studies, Bangalore.
- Dr. Dinkar Sitaram, Professor in the Department of Computer

Science and Engineering delivered a talk on "Hybrid Cloud" in Hyderabad at Institute of Development and Research in Banking Technology.

- Dr. S Natarajan and Prof. H V Srinivasa Murthy visited the Department of Ophthalmology, PESIMR, Kuppam to explore joint project collaboration.

STUDENT ACHIEVEMENTS

- Many students received internship offers from EFI. (An MOU between EFI and PESU has already been signed).
- Pre - Placement Training Sessions were conducted by Aayush Agarwal, Manisha Krishna, Jateen Mittal,
- Mr. Pratik Rajesh Sampat, a student of fifth semester, acquired the second place in the Power of Connected Hackathon conducted by Honeywell.
- Pre - Placement Training Sessions were conducted by Mohammad Ghazanfar [PES Alumn] and Ranjan Agarwal [Alumnus of IIT-BHU].
- Mr. Vinay Shekhar, Mr. Karthik Radhakrishnan and Mr. Aman Achpal won the best AMD Student Project Award for the project entitled "Ushering In A New Era of Computing".
- Ms. Apoorva G Bhat and Mr. Bhargava Bodas, students of seventh semester, Won 2nd prize at Hackathon for Social Good, GMASA Bangalore-17 (Global Mobile App Summit & Awards) in a team of 5



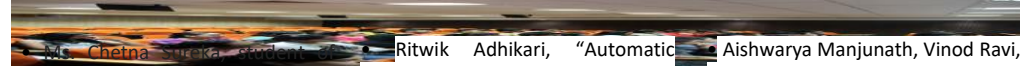
held during 5th and 6th July 2017. A team of six students from the Department of CSE, PES University has completed a project for the Technology Assisted Learning Program for the Department of State Educational Research and Training (DSERT) during the summer term of 2017. The team members Ms. Jyotsna Nayak, Ms. Michelle Maria Roy, Mr. Milan J Srinivas, Mr. Mukundhraj GR, Mr. Nikhil Khatri and Ms. Medha Pragna Parigi worked under the guidance of Dr. Viraj Kumar and Prof. Vidhu Rojit. The system comprises of an interface for the teachers to access educational content using a web interface. The project was deployed successfully in Government Schools across the state in August 2017.

- Mr. Satvik Kumar was a part of the CORI team which successfully launched PESU I/O -PES Universities indigenous program headed by the COO - Mr. Ajoy Kumar.
- Mr. Burada Vivek, student of third semester, successfully presented his business model at Supreme Biz Park, Mumbai through their Finnovatica Program. He also got shortlisted for semifinals in the prestigious IIT-Kharagpur Empresario.
- Ms. Anjali Barhanpure, student of seventh semester, has been selected as a scholar for the Grace Hopper Conference, India 2017 to be held in November
- Mr. Nishant Shekhar, was selected as the second best intern student in Spyry Technologies.
- Mr. Nishant Aklecha, student of third semester, attained World #1 rank in Python and World # 10 rank in Algorithms at HackerRank, a popular online programming contest platform.
- Ms. Keerthana T K, a student of third semester won the second place in Fitness Challenge held by PES University
- Mr. Varun Rao, a student of seventh semester was one of the champions of Massachusetts Institute of Technology(MIT) Graph Challenge 2017 at Waltham, MA.

"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."

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Faculty of Engineering



fifth semester, has been selected to be a part of Jagriti Yatra, 2017, among 425 people in India and 46 other nations. “Jagriti Yatra” or a journey of awakening is an initiative by an NGO “Jagriti Sewa Sansthan” that promotes entrepreneurship.

- Mr. B Rutvik, student of third semester, stood second in a hackathon conducted by Hacker Earth and Aakash Labs
- Mr. Satvik Kumar, student of fifth semester, Won 2nd position in RVCE Cloud and IoT hackathon held on 8-9 September and a cash prize of ₹15000.
- Mr. Ganesh K and Mr. Lorick Jain, students of the seventh semester were qualified for the finals of the United By HCL Hackathon and were ranked among the top ten teams globally. They won an all expense paid trip to Old Trafford, Manchester, UK.

PUBLICATIONS

- Lorick Jain, Harsha Vardhan M A, Nishant M L, Shylaja S S, Cloud - Based Approach For Supervised Classification Of Plant Diseases Using Convolutional Neural Networks, IEEE - Cloud Computing For Emerging markets.
- Sitaram, D., Harwalkar, S. and Shreyas, MM., 2017, November. Federated Cloud Services using API-Proxy in a Distributed Cloud Environment. In *Cloud Computing in Emerging Markets (CCEM), 2017 IEEE International Conference on*, IEEE.
- Sachin Prabhu, Subramaniam KV, Sitaram, D., 2017, November. Proof of Concept for Recognition of Indian License Plate Number from Live Stream Videos. In *Student PoC Competition, Cloud Computing in Emerging Markets (CCEM), 2017 IEEE International Conference on*, IEEE.
- Shreekanth M Prabhu, “Information Management Framework for Good Governance”.

Ritwik Adhikari, “Automatic Delineation of Macular Regions Based on Locally Defined Contrast Function”, ICIP (International Conference on Image Processing) 2017.

- Sachin Prabhu, B, K. V. Subramaniam and Dinkar Sitaram, “Recognition of Indian License Plate Number from Live Stream Videos”, 6th International Conference on Advances in Computing, Communications and Informatics (ICACCI) – 2017, September 2017, IEEE, Manipal.
- Sachin Prabhu, B, K. V. Subramaniam and Dinkar Sitaram, “Recognition of Indian License Plate Number from Live Stream Videos”, 6th International Conference on Advances in Computing, Communications and Informatics (ICACCI) – 2017, September 2017, IEEE, Manipal.
- Shubhendu Singh, Nishant Bhattacharya, Kushal Samir Mehta, Jyotsna Prasad, Kaala Lakshmi S, K. V. Subramaniam, Dinkar Sitaram, “Identifying Uncollected Garbage in Urban Areas using Crowdsourcing and Machine Learning”, Technologies for Smart Cities, IEEE Tensymp July 2017, Kochi.
- Bhaskarjyoti Das, “An Empirical Approach for Optimizing Globally Distributed Software Product Engineering”.
- Sharanabasaweshwara Asundi, Department of Aerospace Science Engineering, Tuskegee University, Tuskegee, AL 36088, USA, Yashwanth Amara, Vinod Ravi, Chaitra Krishnaraj, Navyatha Gattu, Shrikanta Aradhya C. S. , Aishwarya Manjunath, and Vinod Kumar Agrawal, Crucible of Research and Innovation, PES University, Bengaluru, Karnataka, 560085, INDIA, “A Technology Mission to Demonstrate the Novel “Ultra-thin Wires Drag Enhancement System – UWDES”, AIAA(American Institute of Aeronautics and Astronautics) Space Forum Proceedings at the AIAA 2017 conference.

Aishwarya Manjunath, Vinod Ravi, Sharanabasaweshwara Asundi, IAC-Chaithra Krishnaraj, Shrikanta Aradhya C S, Navyata Gattu , Yashaswi Gurumurthy, Shiva Kumar P, Suraj Singh, Vishwas N M, Swastik Nayak, Yashwanth Amara and Vinod Kumar Agrawal, "Drag Enhancement For Spacecraft Using Numerous Ultra - Thin Wired Arranged Into Drag-Wire Webs Of Various Configurations", IAC (International Astronautical Congress) 2017 held at Adelaide, Australia as a proceeding of the 17-A6.4.4 symposium.

- Aishwarya Manjunath, Yashwanth Amara, Vinod Ravi ,Yashaswi Gurumurthy ,Chaitra Krishnaraj ,Shrikanta Aradhya C S, Navyata Gattu ,Vishwas N M, "A Comparative Study of Drag-Wires and Drag-Sails for Drag Enhancement of Spacecraft – Stowing, Deployment, Charging and Overall Operation" accepted for the IAASS (International Association for the Advancement of Space Safety) 2017 conference at France.
- Satvik Kumar, Dhole S, Prabhakar M., 2017, November. Intuitive Traffic. In *Student PoC Competition, Cloud Computing in Emerging Markets (CCEM), 2017 IEEE International Conference on*, IEEE.
- Viraj Kumar, Vidhu Rojit, Swetha B and Raksha Rao, “A Low Cost Classroom Response System”, 6th International Conference on Advances in Computing, Communication and Informatics held at Manipal University, Karnataka, India.
- Sreedhar Radhakrishnan, V R Chittaranjan, K Mahesh, “A Versatility Metric for Cricket”, ICSE 2017, BITS Pilani, October 2017. The conference proceedings will be published by Cambridge Scholars.
- First Look: Linear Algebra-Based Triangle Counting without Matrix Multiplication - Tze Meng Low, Varun Nagaraj Rao, Matthew Lee, Doru Popovici, Franz Franchetti (CMU), Scott McMillan (SEI)

Faculty of Engineering

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

WORKSHOPS ORGANIZED/ ATTENDED

Title: Microwave Engineering for Diploma Students

Date: 23 Sep 2018

Event: Hands on experience in Microwave Laboratory.

Target: 50 students of PES Diploma Institute

Venue: Microwave Engineering Lab at PESU

Description of the event:

Fifty students from PES diploma Institute came to PES University for an exposure on microwave engineering. The students were divided into two batches of twenty five each.

In the laboratory, the students were given an exposure to practical experiments on reflex klystron, slotted line, isolator, circulator and microstrip antenna. Though they have studied concepts of microwave engineering in theory, a brief introduction of the subject and safety aspects of the practical experiment was given. The students were allowed, in batches of three to use the equipment, take readings and verify the answers that they had learnt in theory.



An interactive session was also conducted to answer all queries of the students.

The students were asked to take down readings and calculate other parameters that they had learnt in class in Microwave engineering.

A Directing Staff (DS) from their Institute was available to guide and help the students assimilate the

information and the experiments they were being exposed to.

FDP CONDUCTED

• Department of ECE at PES University had organized a two day Faculty Development program on 22nd and 23rd June 2017 on the occasion of 'The International Yoga Day', coordinated by Prof H.R.Vanamala and Dr. B. N. Krupa.



On the first day Dr.Latha Shekhar conducted the Yoga and Mudras sessions bring awareness of the importance of Yoga and Mudras in our daily life to maintain our physical and mental health.



Dr. Jayaprada Conducted the graphology session helping the faculty analyse their personality through handwriting.

On the second day of the FDP, Mr. Jayaprakash Nagathihalli engaged the faculty through various activities.

• Workshop on 'Internet of Things' was conducted in the department for two days in collaboration with 'DEVSYS EMBEDDED TECHNOLOGIES'.

The event was coordinated by Prof. Ranjan Chaudhary.



• FDP ON NETWORK ON CHIP was conducted in the department for three days in collaboration with IIT Guwahati.



This event was coordinated by Prof. Ravikant Biradar, Prof.S.S.Rekha, and Prof.Y.J.Pavitra.



FACULTY ACHIEVEMENTS:

• Prof. M. Anuradha, Ms. Nagamani A.N. and Ms. H.V. Jayashree have submitted Ph.D. Thesis.

• Ms. HV Jayashree, Dr. Raghavendra Kulkarni, Ms. Karpagavalli, Prof. M. Anuradha and Dr. Koshy George were awarded Publication Incentive and received the cash awards on July 21, 2017.

• Dr. Raghavendra G. Kulkarni, Distinguished Professor (ECE) has published a Paper titled "Tailor the quartic roots" in the journal, The Pentagon (USA) in the forthcoming issue.

• Dr. Raghavendra G. Kulkarni was Reviewer for PRIMUS (Taylor & Francis, UK).

• Dr. B.Niranjana Krupa has reviewed- Journal of Medical and Biological Engineering

• Prof. Somesh Nandi of 2014 - 16 batch secured VTU 2nd Rank in M. Tech. Intelligent Systems.

"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

STUDENT ACHIEVEMENTS

- A paper by M.Tech student Roopa Narayan Naik and Dr. V Sambasiva Rao has been published in High Frequency electronics journal "Highfrequencyelectronics.com" JULY2017. The title of the paper is "Design and Development of an On-Board System in Satellite-Based Automatic Identification Systems (AIS)"
- A paper by the former students of ECE (Chirag Ramesh and Desik Rengarajan) 1570363433 (Modeling Demand Flexibility of Electric Vehicles) submitted to the 2017 IEEE International Conference on Smart Grid Communications (SmartGridComm): Smart metering, Demand Response and Dynamic Pricing - S4 has been accepted and will be scheduled for presentation in the conference.
- Abhinav Goel (ECE, 7th semester) has joined Prof. Pramod Varshney's research group at Syracuse University, New York, to pursue the final-year project between January - May, 2018.
- M. Tech. Student Ms. Pnya Darshni (2014 - 16 M. Tech DECS Batch) has been selected to work at Jet Propulsion Laboratory(JPL), NASA, to design antennas for the prestigious MARS sample collection mission, which is the first of the many tasks in the MARS 2020 mission of NASA.She is also being nominated for the 'Rising Star of the US 2017' awards.
- Samaahitha along with Tejas A(ECE) and Vidhu (CS) have published paper in IEEE TENSYP 2017 held in July at Cochin based on the work done during their Microsoft Lab Internship.
- Eighth Semester student NIHAL SHARMA has got PhD admit at Univ. of Texas at Austin for the Fall - 2017.
- Ms. Ankita Pai - VTU secured Gold Medal in M. Tech. in MECS.
- Aaditya Ravindran (2012 - 16 Batch) is doing his Masters at Arizona State University.
- Rahul B and Sahil Kamath of VII semester have started their own company at PES Campus.
- Team consisting Pratik R. and Rahul Ganesh from V semester has been selected among Top Teams in India for the final off line round of SRM Hackathon Chennai.
- Debpriyo Roy of VII semester presented paper entitled "Optical Biosenser Design and Structural Analysis to Detect Drugs of Abuse in Human Blood" at 4th International conference in Recent Developments in Science , Engineering and Technology (REDSET 2017) on 13-14 October2017 in Data science and analytics organized by School of Engineering,GDGU.
- Around 30 students from 2013-17 ECE Batch are going for higher studies in various Indian IITs and foreign universities like UT Austin ,Univ. of Maryland,Georgia Tech, Purdue, Univ. of Utah, Univ. of Illinois, Boston Univ, ASU, Univ. Sweden etc.
- Around 7 students from VI sem are doing Projects in Companies like Rebam Space Inc. ,Bangalore,Microsoft Research Lab India, Bosch,Adugodi,Bangalore, Adobe Systems Ltd, Bangalore,Code Intellect LLC , Seattle,WA.
- 6 students from VII semester (Navyata Gattu,Yashaswi Gurumurthy, Shrikanta Aradhya CS, Shiva Kumar Prabhu Rathnakara, Suraj Singh, Chaithra Krishnaraj) presented paper "IAC-17.A6.4.4 Drag enhancement for spacecraft using numerous ultra thin wires arranged into drag wire webs of various configurations" in 68th InternationalAstronautical Congress held from 25th -29th September 2017 in Adelaide, Australia.
- The official PES Indian Contemporary Dance team, SANSKRITHI have taken part in the college Freshers celebrations, CSR inauguration, took part in IIMB's foreign exchange program function and also won the First Place in BMC's cultural fest 'COBALT SKIES'.

Faculty of Engineering

DEPARTMENT OF COMPUTER APPLICATIONS

- Prof. S.Veena, took over the charge as Chairperson on 24th of July, 2017.

GUEST LECTURES

- Department hosted one-day distinguished Guest Lecture on "Cybersecurity for IoT Applications using Attribute-Based Access Control" by Prof. Manimaran Govindarasu, IOWA State University, on 2nd August 2017.

- Department hosted one day Guest Lecture on "Storage Area Network in Industry" by Ms. Bhagyalakshmi Rangappa, Sr. Software Engineer, CISCO Systems, Bangalore on 29th August 2017.

- Mrs. Sreerexha from Metric Systems, Bangalore gave a lecture on 1st September, 2017 regarding "DBMS- SQL, NoSQL and Normalization".

- Mr. Deepak Bagchi from SLK Software Systems Pvt Ltd. gave a lecture on 5th September, 2017 regarding "Exploring Data Science from Industry Perspective".

- Mr. Kishore B.T from Sales Force Development gave a lecture on 9th October, 2017 regarding "Sales Force Administration".

WORKSHOPS ORGANIZED/ ATTENDED

- Mr.P.Sreenivas and Mr.Tamal Dey attended Three-day sponsored FDP on Teaching Learning Process at IIT Madras organized by TLC-IIT Madras from 19th June to 21st June 2017.

EXTENDED WEEKDAY EVENTS

- Photography contest was organized for students of 3rd and 5th Semester on 22nd August, 2017. There were over fifteen participants for this event.

- Slow Bike Race Contest was organized for students of 3rd and 5th semester on 29th August, 2017. There were a total of twelve participants.

- A Clash Royale tournament was open to all the students in PESU

campus on 05th September, 2017. The total numbers of participants were ten.

- A fun filled game called 'Counter Strike' was organized by the MCA Department for the students of entire campus on 12th September, 2017. There were thirty five of participants.

COMMUNITY DEVELOPMENT PROGRAM (CDP)

- The department organized a one-day CDP programme on Computer Awareness to the students of a Government school at Veerabhadra nagar on 28th June 2017.

- Books, stationery and clothes were donated to Gurukula Vidya Peeta an orphanage and school at Kengeri, Bangalore.



EVENTS

- A four day 'Bootstrap Program' was conducted for 1st year MCA students between 20th to 23rd Sept, 2017.



The following activities were a part of this program:

- A one day visit to ISKCON
- Personality Development Program by Disha Foundation-Bangalore
- "Visual Programming" by Mr.Santosh Katti, Asst.Professor, Department of Computer Applications, PESU.

- Social service activities at Gurukula Vidya Peeta school



- Department hosted one day campus visit by VIT Chennai on 12th September 2017. The team consisted of thirty five students and five faculty. The Team visited CORI, CCBD and KANoE Labs to understand the research work and progress done in those labs.



FACULTY ACHIEVEMENTS

- Prof. S.Veena successfully completed her Ph.D Viva-Voce in September 2017.

- An additional grant of 2.5 lakhs has been received from Huawei Technologies, Bangalore in addition to 15 lakhs received last year for starting Innovation Lab in the department. Prof.S.Veena, Chairperson, is the principal coordinator of this project.

STUDENT ACHIEVEMENTS

- Ayush Jaiswal, Aditya K.S, Rabin Hansda, Shrilaxmi Bendre, Aditi Jha, Darshan SR, Riya Chokraborty, and Javed Akthar MB from 5th Semester MCA department completed their Summer Internship during 1st June to 22nd July, 2017. They developed a project at Cultyvate in collaboration with PES University.

- A group of 13 students has participated in National Level IT Fest "GATEWAYS 17" organized by Christ University, Bangalore and won the Runner up championship and individual prizes in Photography and Events.

Faculty of Engineering

- Abhishek Gouda Patil and Darshan S from 5th Semester completed a Web based project for Grampanchayat, Kundapur Village, UDIPI District. This initiative that was based on concern for working children was supported by a Government NGO and the guidance of Dr.S.Veena Chairperson, Dept. of Computer Applications and Dr.Veena, Chairperson, MBA.

- The department bagged Second place in an event organized by Shringeri Shankara Math, Kalady, Kerala.

- Two students Mohit Jain and

Darshan S.R of 5th Semester are developing a Web based School Administration project for Happy Valley School, Bangalore.

- Vineeth and Cajeton of I Semester has participated and represented University in Football Championship at Christ University has won the 1st prize and Championship.



ALUMNI ACHIEVEMENTS

Mr. Nagendra Kumar (2009-2012 batch), Customization Team Leader, Practo Technologies an Alumni of Department of Computer Applications, has provided four job placements to the students of MCA Department.

Faculty of Engineering

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

DEPARTMENT OF MECHANICAL ENGINEERING

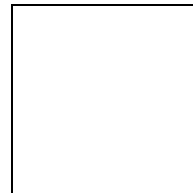
WORKSHOPS ORGANIZED/ ATTENDED

- TWO-DAY FDP ON SIX-SIGMA- A ROADMAP FOR EXCELLENCE"

Six Sigma is a disciplined, data-driven approach and methodology for eliminating defects (driving toward six standard deviations between the mean and the nearest specification limit) in any process – from manufacturing to transactional and from product to service. This workshop was held on 4th and 5th August, 2017, primarily to benefit Staff members of Engineering Colleges who can transfer this to their students by introducing this as 2 Credit Course or 4 Credit Course. This course will also give them a chance to learn the current trends in Quality management like Six-Sigma.

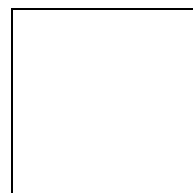
Distinguished people in the field Mr. MC Ramakrishnan- VP (retd.) Corporate Quality Management – Bosch, Bangalore, Mr. K.N. Srinivas – Director- Founder- SourcenSave and Mr. T.R.Vijayendra- General Manager- Operations- Promac Engineering, Bangalore, addressed this programme.

Additional input was given to participants in their Training centre with a Question and Answer session.



A practical demonstration of Six-Sigma approach was given to the participants by Mr. P.S.Ramesh CEO & ED of M/s British Midland Aerospace co ltd and his colleagues at their Peenya plant in Bangalore.

The importance of Six-sigma approach in problem solving and project management was explained ending with Q&A session. Additional input like FMEA concepts was also shown along with shop floor visit.



CONFERENCES ORGANIZED/

ATTENDED

- TWO WHEELER TECHNOLOGY

A two day conference on two wheeler technology was organised by SAE – India at PES University on 4th and 5th August, 2017.

Department of Mechanical Engineering coordinated the arrangements for the event on campus.

This event, which had a target audience involving a mix of industry professionals, faculty and students, aims to highlight the technology trends in the fast-moving two-wheeler industry, the challenges that lie ahead in the form of mandatory legislations and how the OEMs and suppliers are working together to meet the respective deadlines.

One of the major prospects of this event was to enhance Industry-Academia connect. This was the first ever Two Wheeler Conference organised by SAE.

Vinay Harne of TVS Motor Company; Suraj Agarwal, operating head, new model vice-president, Honda Motorcycle & Scooter India;

Faculty of Engineering

Ms Hemalatha Annamalai, MD and CEO, Ampere Vehicles; Prashanth A, General Manager - Engineering, two-wheeler & powersports - India, Bosch and Guruprasad, Regional Head, Strategic Business, ANSYS.



EVENTS

• JOY OF MECHANICAL ENGINEERING

The department of Mechanical Engineering hosted a program from 30th May to 3rd June, 2017. The aim of the program was to introduce students to the practical aspects of mechanical engineering.

During the course, students were given hands on experience in various aspects of mechanical engineering like automobile operation and maintenance, engineering drawing of these components.

They also had lecture sessions by distinguished faculty of the institution like Mr. Sasi Kumar, Research Scientist, CORI along with Dr. V Krishna, Chairperson, Mechanical Engineering, Dr. C V Chandrashekar, Domain Lead-Machine Design, Mr. Harshavardhan S and Mr. Ajay Nayar, Assistant Professors.



BOOTSTRAP 2017

Department of Mechanical Engineering had organised a bootstrap event between 31st July to 5th August, 2017 for the newly enrolled Engineering students, at

PES University.

This event intended to provide hands on experience to the students with regard to the basic knowledge and maintenance techniques of automobiles. The event was scheduled over 5 days, with approximately 260 students being a part of this event each day.

Students divided into batches were mentored by the faculty of the Department of Mechanical Engineering, were made to dismantle and re-assemble simple components like braking systems, air filter, and carburettor of different two and four wheelers.

This exercise provided students an engineering perception of the same with a better understanding of working of these components. The event received excellent feedback from the students.



ACHIEVEMENTS

• ANNUAL PACE GLOBAL FORUM 2017, TOLUCA, MEXICO, 23-27 JULY, 2017

Students of the Mechanical Engineering Department participated in the Annual PACE Global Forum 2017 organised by PACE (Partners for Advancement of Collaborative Engineering Education), an initiative of General Motors Inc., USA. This year's Forum was organised at Tecnologico de Monterrey, Toluca, Mexico from 23 – 27, July 2017.

A team of 4 students – Ananda Raja, Manjunath D M, Sanketh Mogeraya K & Chinmay Sastry along with one of the PACE Integrators, Dr. V. Krishna, Chairperson, Department of Mechanical Engineering – PG Studies, attended the Forum.

• PES University PACE Team bagged a total of 5 Prizes in this year's Forum.

• PUMA (Personal Urban Mobility Access) Team Competition

The concept for PUMA was that each team had to present two models specifically designed for the 60+ age group. The objective was to design and develop a new, innovative and smart urban mobility solution for the first and last mile of a trip, such that it can be easily managed with public and urban transportation.

The concept design should be a self powered assisted vehicle that is portable, easy to set up and capable of being carried on to a bus or train, and can stowed or carried indoors or made available on demand.

Team 3 with PES University as the Lead Institution, along with MAUA Institute of Technology - University of Sao Paulo Brazil, Rheinmann Institute of Technology – Germany, NID – Ahmedabad, SJCE Mysore, Michigan Tech – USA, won prizes in the following categories:-

Customer Insight – 1st Prize

Industrial Design – 2nd Prize

Manufacturing Engineering – 2ndPrize

Team Captain: Anand Raja (PES University)

Members:

PES University - Mukil Vannan, Chinmay Sastry, Anirudh G,

PESIT - Manjunath D M, Bharath R Bharadwaj , Sanketh Mogeraya K, Nikhil Mahalingesh, Prajwal S, Niranjan

PACE Integrators:-

Dr. K.S.Sridhar, Principal PESIT, Chairperson, Department of Mechanical Engineering, UG Studies

Dr. V. Krishna, Chairperson, Department of Mechanical Engineering, PG Studies

Dr. Rajesh N. Mathivanan, Professor, Department of Mechanical Engineering.

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Faculty of Engineering

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Staff Coordinators:-

Mrs. Sowjanya VK, Assistant Professor, Department of Mechanical Engineering

Mr. P. Babu Rao, Assistant Professor, Department of Mechanical Engineering



Students pose with the prototypes of the PUMA model.



PACE Integrators Dr. V. Krishna (PES University, Bengaluru) and Dr. K. Chandrashekar (SJCE, Mysuru) and students with the prototypes of the PUMA model presented by Team 3 at Annual PACE Global Forum 2017 organised at Tecnológico de Monterrey, Toluca, Mexico from 23 – 27, July 2017



Manjunath DM and Sanketh Mogeraya K receive the 3rd Prize for Collaboration & Innovation Challenge for their paper ‘Improving the Heat Transfer Performance of Automobile Radiators using Hybrid Nano Fluids’. Other authors - Bharat R Bharadwaj (Team Lead), Babu Rao P (Asst. Prof., PESU), Dr. Rajesh Mathivanan (Prof., PESU).

•READY ENGINEER - MOU SIGNED WITH TATA TECHNOLOGIES IN COLLABORATION WITH KRACKIN

PES University has been admitted as a part of Ready Engineers- A CSR initiative from Tata Technologies to help engineering students to be industry ready. This program aims on imparting skills necessary for students to adapt to current industrial trends. Anubhav Kapoor, General Counsel and Company Secretary, represented Tata Technologies along with Pawan Kumar Bhageria, President, Tata Motors Group Strategic Business Unit. Also, Ready Engineer supports a start-up Krackin, one of the NASSCOM companies. Krackin provides a platform for student populace, academicians and industry personnel interactions. Student progress is monitored on a regular basis and are informed of the current trends and technologies so that students can prepare themselves for better opportunities. Dr. K N B Murthy, Dr. K S Sridhar signed MoU with Ready Engineer Program and Krackin on behalf of PES University on 4th August, 2017.



•TEAM HAYA RACING COLLABORATION CEREMONY WITH KIRLOSKAR TOYOTA TEXTILE MACHINERY AND TOYOTA INDUSTRIES ENGINES INDIA.

On the evening of 27th of September, Team Haya Racing had the pleasure of conducting a collaboration ceremony with TIEI and KTTM. KTTM and TIEI presented a cheque of rupees *one lakh* each in favour of Team Haya Racing.



The event hosted dignitaries from various associated fields Mr. R. Ramesh- Director(Technical Cell) Dept. Commerce and Industries (Government of Karnataka), Mr. B. Venkatesh Murthy, Undersecretary to Government of Karnataka, Department of Commerce and Industries, Mr. T.R. Parasuraman, Deputy M.D, TIEI, Mr. T.R. Nagaraj, Director of Finance, KTTM and Group Captain, S.V. Kumar, Toyota industries. Team Haya Racing along with CEO of PES institutions- Prof. D. Jawahar, The Principal of PESIT- Dr. K.S. Sridhar, Co-founder of Team Haya Racing- Dr. V.Krishna, and Faculty coordinator- Prof. Ajay Nayyar, hosted this collaboration event.



•Collaboration & Innovation Challenge – 3rd Prize

‘Improving the Heat Transfer Performance of Automobile Radiators using Hybrid Nano Fluids’, Bharat R Bharadwaj (Team Lead), Manjunath DM, Sanketh Mogeraya K, Babu Rao P, Dr. Rajesh Mathivanan.

PAPER PRESENTATIONS

• ‘Improvement of Radiator Performance using Hybrid Nano Fluids’, Manjunath DM, Sanketh Mogeraya K, Bharat R Bharadwaj, Babu Rao P, Dr. Rajesh Mathivanan