



Info Bee NEWS LETTER

Dept. of Information Science & Engineering
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Department Vision & Mission

VISION :

To be a hub for innovation in Information Science & Engineering through Teaching, Research, Development and Consultancy; thus make the department a well-known resource center in advanced, sustainable and inclusive technology.

MISSION :

- * **ISE1:** To enable students to become responsible professionals, strong in fundamentals of information science and engineering through experiential learning.
- * **ISE2:** To bring research and entrepreneurship into class rooms by continuous design of innovative solutions through research publications and dynamic development oriented curriculum.
- * **ISE3:** To facilitate continuous interaction with the outside world through student internship, faculty consultancy, workshops, faculty development programmes, industry collaboration and association with the professional societies.
- * **ISE4:** To create a new generation of entrepreneurial problem solvers for a sustainable future through green technology with an emphasis on ethical practices, inclusive societal concerns and environment.
- * **ISE5:** To promote team work through interdisciplinary projects, co-curricular and social activities.

Activities...

FDP on Advances in Computing Tools & Technology [ACTT-2017]

The Department of Information Science & Engineering-RVCE jointly with Computer Society of India [SIG-FM] organized FDP on "Advances in Computing Tools & Technology [ACTT] during 11th & 12th August 2017. The event was supported by KBITS-GoK & CoreEL Technology. The Inauguration started with a opening remark by Dr. Shantharam Nayak (Professor, RVCE & FDP Coordinator). Dr. Cauvery N K (HOD-ISE,RVCE), welcomed all the delegates & invitees for this FDP. Mrs. Bhanumathi – Convener CSI SIG-FM told about CSI initiatives in the field of Formal methods. Mr. Syam Madanapalli – Director IoT, NTT data delivered a keynote address on "Roof Computing". Later Chief Guest Mr. S A Ashrafal Hasan – Managing Director, KVTSDC, GoK addressed the audience and advised to have additional skills for better competition. Dr. K N Subramanya – Principal RVCE told about the RVCE initiatives, innovative practices and Out come based Education. Mr. Vishwas Bondade-RVP region 5, Mr. Venkatagiri – Vice chairman-CSIBC & Mr. H C Sridhar represented CSIBC in the inauguration. The inauguration was coordinated by Dr. Nagaraj Cholli, Dr. Shantharam Nayak, Prof. Merin Meleet, Prof. Padmashree T, Prof. Kavitha S N with the assistance of other staff members. The other resource persons are : **Mr. Pramod Kumar Naik and Mr. Manisankar from CoreEL Technologies.** Dr. Sateesh Kannegala delivered a talk on "Block chain Technology" during valedictory on 12-08-2017. Total 39 faculty members representing 14 different institutions have actively participated and benefited from this FDP.



Do you Know ???

- * Fingernails grow nearly 4 times faster than toenails !
- * Women blink nearly twice as much as men.
- * A newborn baby's head accounts for one-quarter of its weight.

The members of the faculty interact with industry personnel and plan to provide an opportunity to the students to visit such industry. As per the direction from Dr. N K Cauvery(HOD-ISE), Dr. G N Srinivasan (Professor, ISE) contacted the concerned at ISKCON, an NGO (Sri. Jnan Sharma – 7090708531, jnan.sharma@akshayapatra.org;) and requested to provide an opportunity for the student of our department to visit the Akshaya Patra Production Unit at “Vaikunta Hills”, Vasanthapura, Subramanyapura, Bengaluru-560061. Mr. Sharma connected Mr. Vijay (7090181122) and directed him to facilitate the visit on a convenient day. After discussion the concerned at ISKCON fixed the date as **Tuesday, 29-08-2017** for the industry visit. Mr. Vijay (7090181122), Mr. Sunil were instrumental in facilitating this visit. Dr. Shantharam Nayak & Dr. Srinivasan discussed with Vijay and coordinated this event. The faculty coordinators : Dr. G N Srinivasan, Dr. Shantharam Nayak joined the students in a bus and reached the company at scheduled time(09.45 am) on Tuesday, 29-08-2017. After the security check, the faculty members and the students were given with visitors pass.

Mr. Vijay, Mr. Sunil and their team members took the students group for the floor (production unit) visit. To start with the students and faculty members joined for assisting work (coconut cleaning). Later all the participants were taken to the 4th floor of food production unit to see the machinery and operation. All the units like vegetable cleaning, pulses cleaning, cooking etc. were shown. The last stage where the final food item after preparation is packed in to the containers before dispatch. Total 32 PG students and 02 faculty members participated in this visit and drawn benefit from the same. The outcome of the visit :Students came to know about various facilities in Akshaya Patra Project. The organizers thanked all concerned staffs of ISKCON for facilitating the visit.



Visit to CDAC

Visit to CDAC on Thursday, 31-08-2017

The members of the faculty interact with industry personnel and plan to provide an opportunity to the students to visit such industry. As per the direction from Dr. N K Cauvery(HOD-ISE), Dr. Shantharam Nayak (Professor, ISE) contacted the concerned at Center for Development of Advanced Computing [CDAC] (Sri. Bindhu Madhava, Director – 9844253414, bindhu@cdac.in;) and requested to provide an opportunity for the student of our department to visit the CDAC Knowledge Park at Byappanahalli, Bengaluru-560038. Mr. Bindhu connected **Mr. Muthukumaran S** (080-66166325) and directed him to facilitate the visit on a convenient day. After discussion the concerned at CDAC fixed the date as **Thursday, 31-08-2017** for the industry visit. **Mr. Mallesh** and their team members took the students group to a seminar hall. A video was presented giving the complete overview of R & D activities happening in CDAC. **Mr. Nataraj A C** – Joint Director explained the facilities at CDAC. CDAC – PARAM PADMA, A Super scalar computing system (Tera Scale Super Computing). This was coordinated by Dr. Shantharam Nayak, Professor, ISE, RVCE.



Industry visit to CA Technologies : The department of Information Science & Engineering, R. V. College of Engineering, Bengaluru has organized an industry visit on **Wednesday, 20-09-2017** to CA Technologies, Bengaluru. The students were warmly greeted by the company representative team of Mrs. Nandhini, Mrs. Thara and Mrs. Archana . A short introduction of the company was given by the HR representative: Mrs. Archana and expectations of the students regarding the visit was also ascertained.

After this short introduction, a short tour of the office floors was taken by Mrs. Nandhini including the virtual conference rooms and the workspace at 11:15am. The visit to the CA Garage room was exciting with the students interacting with Amazon's Alexa device and other IoT devices. Post the office tour, a Technical talk on "**Machine Learning for security**" was given by Mr. Harsha . The post lunch session was taken by Mr. Sridhar on Data Analytics. The session was informative and various aspects of Data Analysis including the future scope were handled. The visit was coordinated by Dr. G N Srinivasan, Dr. Shantharam Nayak. Prof. G R Smitha accompanied the students to CA Technologies.



Talk on Agile Methodologies

Technical talk : A Talk on "Agile Methodologies" was arranged at CA Technologies on **Wednesday, 20-09-2017**. **Mr. Shashank, Director of machine learning team**, and **Mr. Sridhar**, Product owner in Agile team were the speakers. Mr. Shashank in his talk spoke about the Agile practices that were followed by his team and in the company generally. At the time of visit he was the Acting Scrum Manager for his team. He spoke about his responsibilities as a Scrum Manager and more on his day to day activities. In short, as a scrum manager is responsible for all the facilitation activities for his team. Mr. Sridhar who is a Product Manager at CA Technologies for its analytics product. He also added to Mr. Shashank's speech by talking more on his role as a Product Manager. A product Manager is responsible for innovating and coming up with an idea for a new product. Upon a successful pitch to the management of the company, he is responsible for seeing the product through from its inception to its deployment including its implementation. During the product implementation, he plans the Agile sprints and is usually ahead of the development team by two sprint lengths.

Faculty Profile Strengthened

- ◆ **Dr. Shantharam Nayak** organized & coordinated a faculty Development Programme on "Advances in Computing Tools & Technology [ACTT-2017] during 11 & 12 August 2017.
- ◆ **Dr. Shantharam Nayak, Dr. G N Srinivasan** organized and coordinated an industrial visit to ISKCON for M.Tech students on Tuesday, 29-08-2017.
- ◆ **Dr. Shantharam Nayak, Dr. G N Srinivasan** organized and coordinated an industrial visit to CDAC , B'lore for M.Tech students on Thursday, 31-08-2017.
- ◆ **Dr. Shantharam Nayak, Dr. G N Srinivasan, Prof. G R Smitha** organized and coordinated an industrial visit to CA Technologies , B'lore for M.Tech students on Wednesday, 20-09-2017.
- ◆ **Geetha B G, I M Umesh, R B Ravi Varma**, A paper titled "A Study on Applications of Data Analytics in Non-business Domains", International Journal of Science, Engineering and Technology Research , Volume 6, Issue 8, August 2017, ISSN: 2278 -7798.
- ◆ **Maheshwari D G, I M Umesh**, A paper titled "A Study on Internet of Things Bases Smart Home", International Journal of Science, Engineering and Technology Research, Volume 6, Issue 8, August 2017, ISSN: 2278 -7798
- ◆ **Lakshmi M R, Yashodha T, I M Umesh**, An Analysis of IT Outsourcing Risks In Academia, International Journal of Science, Engineering and Technology Research (IJSETR) Volume 6, Issue 7, July 2017, ISSN: 2278 -7798.
- ◆ **I M Umesh, Dr. G N Srinivasan**, Matheus Torquato, A paper titled "Software Rejuvenation Model for Cloud Computing Platform", International Journal of Applied Engineering Research, Volume 12, Number 19 (2017) pp. 8332-8337. ISSN 0973-4562.
- ◆ **I M Umesh, Dr. G N Srinivasan**, Matheus Torquato, A paper titled "Software Aging Forecasting Using Time Series Model", Indonesian Journal of Electrical Engineering and Computer Science, Vol. 7, No. 3, September 2017, pp. 839-845, ISSN: 2502-4752.
- ◆ **I M Umesh, Dr. G N Srinivasan, R B Ravi Varma**, A paper titled "Machine Learning Framework for Software Aging Forecasting", Proc. of The Sixth Intl. Conf. On Advances In Computing, Control And Networking - ACCN 2017, pp 52-56, ISBN: 978-1-63248-117-7 .
- ◆ **Dr. G S Mamatha** coordinated Research Symposium of ISE department organized on Saturday, 09-09-2017.
- ◆ **Dr. B M Sagar** coordinated & facilitated a Technical talk on "Cloud Computing" on Wednesday, 13-09-2017.

Orientation session

Orientation session (7th September, 2017)

A Orientation programme was conducted for **third semester M.Tech** students on Thursday, **07-Sept-2017**. The aim of this orientation session was to provide information & guidelines regarding Internship, Industrial visit, Project work, Placement activities etc. Dr. K N Subramanya, principal, Dr. Ramakanth Kumar P, Dean academics, Dr. N K Srinath, Dean student affairs, Prof. Ranganath D, Dean Placement have addressed the students. Dr. M S Krupashankara, Prof. R K Manjunath along with Deans & Associate Deans organized this event for the benefit of students.

Research Symposium:

Symposium : A Research symposium for research scholars was conducted on Saturday, **09-09-2017** to showcase the progress made in their research work. The experts from Academic institution – **Dr. S M Dilip Kumar from UVCE, Dr. Usha J, Dr. N K Cauvery, Dr. Sagar B M, from RVCE** and other Ph. D guides were present to review the progress work. Each research scholar presented their Ph. D work progress. During the interaction, Ph. D guides gave necessary inputs to research scholars for refinement. **Dr. G S Matha** coordinated this event.

Talk on Cloud Computing

Invited Talk : The department of Information Science & Engineering organized an invited talk on “Cloud Computing” on Wednesday, **13-09-2017** in ISE seminar hall. **Dr. Wolf Gang Richter** (Director, R & D, Catamaran) was the speaker. Dr. B M Sagar introduced the speaker to the audience and requested to address the students. Dr. Wolfgang talked on the topic “ Agentless Cloud-wide monitoring of Virtual Disk state”. He presented various techniques used for storage. His talk focused on hashing, Near line storage, Incremental hashing. Later he also discussed about scope and opportunity for R & D at catamaran. More than 60 students (UG & PG) have participated and drawn benefit from this talk. The talk was very informative & interactive.



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