

IEEE Pune Section Events

Workshop on Design and implementation of Industry Relevant Computer Science Curriculum



A workshop on Design and implementation of Industry Relevant Computer Science Curriculum for B.E/B. Tech was organized on 4th Jan 2018 by TCS with the co-sponsorship of IEEE Pune Section.

TCS, the largest IT company in India had come up with an Integrated Degree Program on Computer Science and Business Management and presented it to Principals, Deans, HOD (CS) and senior faculty of reputed Engineering Colleges in Pune to gather their feedback on the proposed curriculum along with finding the interest of the institutions in implementing this program.

The presentations were made by Dinanath Kholkar, Vice President and Global Head of Analytics & Insights, TCS; Ranjan Bandopadhyay, Vice President HR, TCS; and Asoke Dassarma, Transformation and Change Management, Cognitive Business Operations, TCS.

About 30 academicians attended the event and brainstormed the suggested program.

Workshop on Agriculture



A workshop on Agriculture was held on Monday, 8th Jan 2018 at TCS Sahyadri Park, Pune with the key stakeholders including IEEE; TCS A&I and mKrishi teams; Maharashtra Grape Growers Association; Rural Relations; and Individual contributors and experts

The purpose of this workshop was to develop a road map for the Agriculture Initiatives in collaboration with key stakeholders and experts. The following are the discussion points and action items from the workshop.

Discussion Points

1. Make agriculture a viable profession Form IEEE Chapter on Agriculture can be the key focus area.
2. Need to encourage women participation at various levels in the field of agriculture.

3. Need to focus on skill building.
4. Empower farmer via technology and partnerships
5. Partnering with ICAR (Indian Council of Agriculture Research, New Delhi)
6. Transforming rural livelihoods through platform solutions. It has potential to eliminate the middle man.
7. Application of IT in Precision Agriculture was shared by Dr Khilari through various examples
 - a. Water, Nutrition Management and yield monitoring. Water management has a major gap in India.
 - b. Application of Sensors in various Crop Monitoring Phases eg soil moisture level and leaf moisture level
 - c. Certification and Traceability
 - d. Pest and Disease Forecasting Models
 - e. Crop Density Identification
 - f. Export Market Compliance and Real Time Tracking of Commodity Container at Global level
 - g. Use of LIDAR for precise chemical/pesticide application
 - h. Crop harvest criteria and dissemination/adoption of information
 - i. Use of Infrared imagery for water status estimation
 - j. Local issues such as incident of bats
 - k. Opportunities in Precision Viticulture
8. Scope to leverage ITIL for incident management in agriculture
9. Development of Low Cost Instruments and Equipment's for Agriculture Operations
10. Gyan Key can act as a conduit to the last mile. Need to work with Sarpanch, Principal and Post Master who are three key opinion leaders in the village.
11. Create "Success Stories" across region, crops and disseminate by using mKRISHI® Platform. Rural India is progressing rapidly due to girls taking education and youth being inspired. Branding of farming and farmers to ensure social stature.
12. Nano Videos: High impact stories to be captured in Nano video's and share via mKRISHI® Platform. Can also publish a book.
13. IEEE can help define Standard's in Agriculture Field
14. Formation of IEEE Chapter in Agriculture Colleges. For this purpose. IEEE can collaborate with ICAR
15. Digitization of Dr. J.M. Khilari's work in Viticulture
16. Strong relationship and trust building with Farmer is crucial for bringing change in Agriculture. Need to focus on villages with 2000 plus population and having weekly bazaar.
17. Android phone and education are great enablers
18. Research on low cost IOT solutions
19. Create a institute for entrepreneurship development in Agriculture colleges

The following Action Items were identified with the key persons involved to carryout them.

- Establishing IEEE & ICAR Collaboration
- Formation of Agriculture Chapter in IEEE Pune Section. Focus on IEEE Standardization Process
- Deployment of platform for Grape Farmers with the help of Dr. J.M. Khilari
- Digitization of Dr. J.M. Khilari's work in Viticulture
- Collaboration with Rural Relations
- Organize an IEEE event on Agriculture

Workshop on Review of Integrated CSE Course Structure

A workshop to review of the Integrated Computer Science and Business Management program for B.E./B.Tech students was held on 29th Jan 2018. The event was organized by TCS Pune with IEEE Pune Section as the co-sponsor.

The TCS designed, course structure for the Integrated Degree Program on Computer Science and Business Management was reviewed by a group of 14 well-known experts from academia and Industry and changes were suggested. Mr. Asoke Dassarma, Head, Transformation and Change Management, Cognitive Business Operations, TCS, was the resource person from TCS.

Seminar on Membership Drive



A seminar on membership drive was held on 20th Jan 2018 at G. H. Raisoni College of Engineering by the Dept. of CSE. Dr. Neha Sharma, Professor, Institute of Industrial and Computer Management and Research (IICMR), Nigdi, Pune provided an overview and highlighted the benefits of IEEE Student Membership to around 200 students participated in the drive including 24 existing IEEE members, 170 UG/PG/PhD students and 6 faculty. :

SB Counsellors and Office Bearers Meet



A meeting of Student Branch Counsellors was held on Saturday, 3rd Feb 2018 at TCS Nyati, Pune with the following agenda

1. Talk on “Industry 4.0” by Dinanath Kholkar, Chair, IEEE Pune Section
2. Updates from IEEE R10 by Dr Rajesh Ingle
3. Status updates by Student Branch Counsellors/Office bearers

The discussion points of the meeting included the following:

1. Creating a tab on IEEE Pune website for students with some areas of interest on which they can use technology as a means to impact social lives of a larger group of people. Identifying problems and then using technology to create solutions. “Work where there are problems”
2. Detailed FAQs clarifying points mostly regarding the petition for student branch formation, filling forms with correct address.
3. Creating a mechanism for event submission on website from all section stake holders
4. Frequent membership drives in all the colleges and industries
5. Making a digital flyer which provides a mind map about how can they justify paying the membership fee and visibility on benefits.
6. Efforts towards retention of graduating students to professional members and engaging them for section activities.
7. Frequent professional and competency building programs
8. Revamping of Section website to make it more user friendly and attractive.
9. Encourage entrepreneurship activities amongst students.

Preparatory workshop on Affordable Agriculture



A preparatory workshop was held on 28th Feb 2018 in AISSMS College towards preparation for a larger event to be hosted by the Special Interest Group (SIG) on Agriculture which is a part of IEEE Pune Section with the following agenda.

- Context setting for the formation of the Special Interest Group (SIG) on Agriculture by Jagdish Chaudhari
- Discussion on potential opportunities and challenges in the field of agriculture.
- Brainstorming on the vision for the initiative
- Listing down the immediate next steps

The discussion points of the workshop include:

- There was a consensus within the group regarding huge opportunities in the field of agriculture and potential for IEEE to contribute in terms of technology leverage for farming.
- The group felt that the government's program for doubling the farmer's income could be a good starting point for our work.
- There was a brief discussion around the Research & Innovation model being used at Pabal Vidnyan Ashram and the need to replicate it in other Engineering colleges.
- Emphasis on encouraging inter disciplinary work in engineering colleges to find solutions.
- The group agreed on the need for exposing engineering students to domain knowledge on agriculture. For this purpose it was agreed to collaborate with the Agriculture College.
- It was agreed that we should make an attempt to form an IEEE student branch in the College of Agriculture Engineering.
- It was agreed to start small and do quality work with around 5 engineering colleges for creating affordable agriculture labs or Center of Excellence to drive innovation. Following colleges were listed as potential members for the phase 1 implementation.
 - PICT
 - College of Agriculture Engineering
 - MIT
 - AISSMS
- The group agreed that few more informal meetings will be required for ensuring foundational work on this initiative.

Facebook wearable lets users 'feel' incoming messages: Facebook has developed a wearable device that allows users to receive messages without looking at their smart devices, and feel them through their skin. The system transmits a vibration pattern representing words in the message to the users' arm for the purpose. Reports said people were able to learn 100 words with 90% accuracy after 100 minutes of training.

Apple unveils robot that recycles iPhones: Apple has unveiled a new robot 'Daisy' which can disassemble iPhones to recover components that contain high-quality materials. Daisy has been made from Apple's Liam robot which was launched in 2016 and is capable of disassembling nine versions of iPhones. The new robot, which can also sort high-quality components for recycling, can take apart up to 200 devices per hour.