



Pune district Education Association's
Mamasaheb Mohol College, Paud Road, Pune-38

Electronics Department 2014-15

The electronics subject is taught at general level for B.Sc. (computer science) students. Along with usual lecture method power point presentation, Animations and videos are used for making subject simplified and interesting. P-spice simulation software is used for practical along with experimentation. **NPTEL lectures and Vidyawani** are made available to students in electronics laboratory.

Curriculum enrichment activities:

- Considering prospective market of mobile repairing and in order to inculcate employability skills among the students **two days workshop on mobile repairing** was organized in association with Student Welfare Board and funded by SPPU, on 12th and 13th December 2014. This workshop was organized on occasion of birthday of beloved leader of Maharashtra Hon. Shardchandraji Pawar. 30 students from FY/SY/TY BSc (CS) class participated in the workshop. The students got hands on experience of mobile repairing.
- Department organized demonstration on **"Hobby Project construction"** by Mr. Ravindra Deshmukh, J R F, CMET, Pune. On 6th JAN 2015. Students of FYBSc (Comp. Science) constructed hobby projects viz . Smoke detector, metal detector, college call bell system, traffic light control system, electronic lantern system. The projects were presented before NAAC peer team by students
- The classroom seminars were conducted for SYBSc (CS) students, in which students presented various topics on recent trends in electronics using power point presentation.
- The Electronics Excellence Exam was conducted in association with SPEED on 2nd FEBRUARY 2015, 15 students participated in the exam. The following students achieved ranks in exam-
 - 1st rank Pallavi Tanpure SYBSc (CS)
 - 2nd rank Madhuri Kudale FYBSc (CS)
 - 3rd rank Dattatreya Sawant and Sapana Rathod FYBSc (CS)
- Considering popularity of mobile phones in society these days, it can be beneficial if we use it in learning too. E-learning and social learning has been combined in future trend of m-learning. Two students of MSc(CS) developed app "My Quiz" for testing programming knowledge. Miss Nayan Kadam and Ashwini Bhadale of MSc(CS) presented this project in **AVISHKAR** competition.
- **Achievements of faculty :**
 - Mrs. S. S. Rane has been selected as member of editorial of SPEED E-news letter.
 - Mrs. S. S. Rane received FIRST prize in paper presentation at National Seminar on "Green Technology".

Research publication in peer reviewed International Journal:

Name of faculty	Journal	Impact factor	Publisher & date	Title of paper
Mrs S. S. Rane	International Journal Of Material Science: Materials In Electronics Vol. - 26, No - 6	2.371	Springer 10-03-2015 ISSN: 0022-2461(print) 1543-4803(online)	Hydrogen sensing characteristics of Pt-SnO ₂ Nano structured composite thin film
Mrs S. S. Rane	IEEE Proceedings of the 2015 ISPTS, 8-10 March		978-1-4673-8018-8/15/\$31.00 2015 IEEE	Al ₂ O ₃ modified ZnO composite thick film ethanol sensor

Participation in syllabus restructuring workshop:

Name of faculty	Title	Date	Place
Mrs S. S. Rane	Workshop on implementation of S Y B Sc(CS) Electronics syllabus	27-06-2014	St. Mira's college

Participation/paper presentation in seminar/conference/workshop:

Name of faculty	seminar	Date	Level	Title of paper	ISBN/ISSN No
Mrs S. S. Rane	Indo Japan Workshop On "Nanotechnology: Synthesis And Sensing"	16 th to 18 th OCT 2014	International	-----	-----
Mrs S. S. Rane	National seminar on Green Technology	13 th and 14 th FEB 2015	National	1)Ag-ZnO 1D nanostructure NH ₃ gas sensors 2)Ni doped SnO ₂ photo-catalytic application	978-93-5016-319-1
Mrs S. S. Rane	International symposium on physics & technology of sensors	8 th to 10 th MAR 2015	International	Al ₂ O ₃ modified ZnO composite thick film ethanol sensor	

Mobile repairing Workshop

