

Celebration of National Science Day 2019

Shri Shivaji Science college, Amravati, every year celebrating National Science Day. The theme of the year 2019 was "Science for the People and People for Science". On the eve NSD-2019, various activities have been organized by the Departments in the College.

A NATIONAL LEVEL COMPETITION FOR SCIENCE STUDENTS and TWO DAYS WORKSHOP ON NANOMATERIAL SYNTHESIS were organized by department of Physics in association with E-Cell IIT Kharagpur / Make Intern. In all 39 students participated in the workshop.

The first day, session was started on 10:30 am with short inaugural in the presence of Head and Faculty of Department of Physics. Coordinator of the workshop introduced the mentor Dr. T. Theivasanthi to the students. The topics covered in the this session are Basic understanding, history of nano-particles to present, applications (History to present date), properties to be tuned, types of synthesis (Chemical & Biological) and advantages of being nano . In the post lunch session mentor illustrate the different method of synthesis of nano-materials. From 4:00 pm students were engaged in the hands on training for synthesis of nano-materials. They synthesized Silver, Copper, ZnS, CdS nano-materials, grapheme and nano-cellulose by chemical routes and electrolysis methods.

On the second day, session started on 10:30 am. The topics covered in the first session are functionalization -Structural and Physical properties of Nanoparticles and their scope, Conventional synthesis of nanoparticles (Metallic or Bio-nanoparticles) Methods and Practicals, Characterization and functionalization of nanoparticles (theory and practicals with limited infrastructure/facilities) and applications – a deep dive into the Nano-World

In the post lunch session MCQ test was conducted and top 13 students were shortlisted. The shortlisted students gave the short presentations on Nanoscience and Nanotechnology. Five best students were selected by mentor for finale round at IIT campus.

The students also characterized their prepared nano materials using UV-vis spectroscopy and XRD analysis at Central Instrumentation Cell of the college.

In the concluding session, Principal of the College Dr. V. G. Thakare distributed the participation and merit certificates to the students. In his concluding remark he thanks to the mentor and congratulate the participants. Dr. Pankaj Nagpure look Coordinated the workshop under the supervision of Head, Department of Physics, Dr. Vinod Bhatkar

Department of Chemistry organized an Intercollegiate Seminar Competition on 28th February 2019 for B.Sc II students on the topics based on Sem IV Chemistry Syllabus. The inaugural function was chaired by Dr. G. N. Chaudhari, Professor and Head, Department of Chemistry. Dr. R. B. Langewar, Associate Professor, Dharampeth M.P. Deo Memorial College, Nagpur was present as the chief guest, Dr. P. R. Mandlik, secretary of AUCTA Amravati and Dr. S. K. Rithe, Coordinator of the competition were present on the dias. Total 15 students were participated in the competition. Dr. R.B.Mohod, Associate Professor, Department of Chemistry Shiri Shivaji College, Akola and Dr. S. N. Gupta, Associate Professor, Brijlal Biyani Science College, Amravati were the jury members. The winners of the tournaments were felicitated by giving them cash prizes and certificates.

Department of Environmental Science organized a visit to Rattan India Power Limited Plant:

B.Sc.III and M.Sc. Students were visited to Rattan India Power Limited. On entering the premises students were informed about the safety rules, safety equipments, and their need in the industry by the safety officers. Then the students were visited central management system where students were informed and guided by Mr. Nimkar Sir and Mr. Abhijit Sarvayya. All the units were handled by CMS centre. In CMS students were informed about the digitalization of plant. Then the students were visited ETP of the power plant. We also took a glance of cooling towers. The students visited water distillation unit and demineralize unit.

....Dr. P. R. Mandlik, convener NSD-2019