

Outreach Activity Report

**Jaypee University of information Technology, Wagnaghat,
Solan-173234, H.P.**

Activity: Science and Engineering Workshop

Duration: 06-05-2017 to 07-05-2017

Places of Activity:

1. DAV school Sundernagar, H.P.
2. DAV School Mandi, H.P.

Target Audience: Students of High School (+1) and higher secondary (+2) and teachers of the schools

Number of Participants: 250-300

Objectives of the activity:

1. Student awareness for new and exciting carrier opportunities at JUIT.
2. To make students familiar with new and emerging fields of studies such as Bioinformatics, Biotechnology and Electronics etc.
3. To provide the students hands on experience on several experiments, systems and techniques such as plant tissue culture, gel electrophoresis for DNA, Bioinformatics, Basic electronics, Robotics etc.

Team Members and Departments:

Faculty:

1. Dr. Sudhir Kumar, Associate Professor, Department of BT and BI

2. Dr. Tiratha Raj Singh, Assistant Professor (Senior Grade), Department of BT and BI
3. Dr. Ragini Raj Singh, Assistant Professor (Senior Grade), Department of PMS
4. Mr. Naveen Jaglan, Assistant Professor (Grade-II), Department of ECE

Lab Staff:

1. Mohd. Ismail Siddiqui, Department of BT and BI
2. Abhishek Kumar Ray, Department of ECE

Students:

1. Tushar Barwal (BTDD final Year) Department of BT and BI
3. Dilprit Singh (B.Tech final Year) Department of ECE
2. Nimisha Asati (B.Tech BI final Year) Department of BT and BI
3. Priya Bharval (B.Tech BI final Year) Department of BT and BI
4. Sehaj Singh Gulati (B.Tech BT IInd Year) Department of BT and BI
5. Vishaka (B.Tech BT IInd Year) Department of BT and BI

Content of the activity:

1. Lectures
 - (i) Dr. Sudhir Kumar - E-waste Management
 - (ii) Dr. Tiratha Raj Singh - Bioinformatics, Human Genome and Career Opportunities in Information Technology and Bioinformatics
 - (iii) Dr. Ragini Raj Singh - Nanotechnology and Nanobiotechnology
2. Lab demonstrations: By all faculty, lab staff and students
3. Interaction with school teachers
4. Interaction with students

Outcome of the activity:

1. Informal feedback from participants in this activity has been very positive. For the activity; the responding students indicated that they had a better understanding of science, had an increased interest in looking up more information on their own.

2. The students responded that participating in the activity increased their interest in studying science such as biotechnology, bioinformatics, electronics and communication engineering and becoming scientists and engineers in the respective fields.
3. Some of the more memorable experiences that students reported while biologists include the following: hands on learning about bioinformatics and even performing gel electrophoresis; examining cells using an electron microscope; plant tissue culture, micropipetting etc. and learning about robotics and nanotechnology.
4. The results from activity show they seem to have a positive effect on students' interest in science. Overall, the student responses were very positive for the activity, and this may be due to the longer, more personal interaction with a scientist that students receive in this program.

Media Reports: Dainik Jagran, 07th May, 2017, Mandi Edition.



Snapshots of activities during the event:



