

Outreach Activity Report

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

Activity: Science and Engineering Workshop

Date: 18 - 05 - 2017

Places of Activity:

1. Govt. Girls Senior Secondary School, The Mall, Solan, H.P.

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

Number of Participants: 150-170

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 microbial staining, KOH string test, plant tissue culture, use of digital pH meter and micropipettes, Bioinformatics, Basic electronics, and 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. Mr. Naveen Jaglan, Assistant Professor (Grade-II), Department of ECE

Lab Staff:

1. Mohd. Ismail Siddiqui, Department of BT and BI
2. Dharendra Kumar Singh, Department of ECE

Students:

1. Mr. Tushar Barwal (BTDD final year) Department of BT and BI
2. Mr. Anuj (B.Tech second year) Department of ECE
3. Ms. Shivani (B.Tech BI first year) Department of BT and BI
4. Mr. Mohit (B.Tech second year) Department of ECE

Content of the activity:

1. Lectures
 - (i) Dr. Sudhir Kumar - Introduction to Biotechnology
 - (ii) Dr. Tiratha Raj Singh - Introduction to Bioinformatics
 - (iii) Mr. Naveen Jaglan - Introduction to Electronics and Robotics
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 and engineering and 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. Overall, the student's and well as teacher's responses were very positive for the activity, and this may be due to the longer, more personal interaction with faculty, staff and students of JUIT.

Here are few of the snapshots of the activity with Students, Teachers and Principal of the school during the workshop:





Media Reports for the activity:

Outreach Activity by JUIT
at
Government Girls Senior Secondary School, Solan (HP)

एक दिवसीय कार्यशाला का आयोजन

सोलन। जेपी विश्वविद्यालय वाकनाघाट के सौजन्य से सोलन छात्र स्कूल में कार्यशाला का आयोजन किया गया। इसमें विज्ञान संकाय के विद्यार्थियों को बायोटेक्नोलॉजी और बायोदनफारमेटिक्स तथा इलेक्ट्रॉनिक विषयों के बारे में जागरूक किया गया। जेपी विवि के डॉ. सुधीर सोयल, डॉ. नवीन जगलान, डॉ. तीरथ राज ने विवि के बारे में जानकारी दी। इस मौके पर स्कूल प्रधानाचार्या अनीता कौशल, रीता कश्यप, प्रवेश शर्मा तथा अन्य लोग मौजूद रहे।

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Amar Ujala, 19th May, Solan, H.P.