



## JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY

Established under H.P. Legislative Assembly Act No. 14 of 2002  
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Atal Bihari Vajpayee Govt Institute of Engineering and Technology (ABVGIT), Pragatinagar, Shimla student's visit to the department of ECE, JUIT on 20th December, 2022.

A report on Academic Institution Visit to Institute of Himalayan Bioresource Technology (CSIR-IHBT) & Agriculture University Palampur 16 Nov. 2022

ECE department representation in CRIKC - CII Exhibition cum Industry Academia Meet on 12 November, 2022

Expert Lecture - Paraxel India-25 Nov.2022

Khalsa College Visit: 31 Oct - 1 Nov 2022

Visited DAV Public School, Sunder Nagar, Himachal Pradesh on 15th October 2022.

Visit of JNV Solan Girl Students under Vigyan Jyoti Programme, 7th October 2022

Career Counseling Programme at Government Polytechnic for Women, Kandaghat, Solan, Himachal Pradesh on July 19, 2022

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Outreach activities at Schools in Solan on 11th July,2022

Report on Interaction with Saunjauli degree college students - 21 June, 2022

Visit to National Agri-Food Biotechnology Institute Mohali-Punjab: 12th May 2022.

Academic Visit of Microbiology and Bioinformatics Students to IMTECH, Chandigarh: 05th May, 2022

Visit of Dayanand Adarsh Vidyalaya Kandaghat students to JUIT on 26th April,2022

Visit of Jawaharlal Navodaya Vidyalaya, Kuniyar, H. P. on 25 April 2022

Outreach activity at MDN Public School, Rohtak, Haryana – 01 April, 2022

Visit of an expert to JUIT from Industry(HOBIBA India Pvt. Ltd ) on 24th March 2022.

Outreach via online mode at Paradise Public School, Sundernagar on 12th March, 2022

Outreach activity via online mode at Sri Sankara Sr Sec School Adyar, Chennai on 9th March, 2022

**Visit of GSSSS Boys Nahan and GSSS Burma Papri to CSE/IT Department, 9th March, 2022**

**Visit of JNV Solan Girl Students under Vigyan Jyoti Programme, 7th March, 2022**

**Visit of GSSS, Chhota Shimla to JUIT, 4th March, 2022**

**National Science Day Symposium (NSDS-22): 28.02.2022**

Virtual symposium entitled 'National Science Day Symposium (NSDS-22)' at Jaypee University of Information Technology (JUIT), Wagnaghat, in association with Himachal Pradesh Council for Science Technology and Environment (HIMCOSTE), Government of Himachal Pradesh India on 28th Feb 2022.

**Visit of Growell Public School Bagpat, U. P., Jai Parvati School Bagpat, U. P. Lakshya Public School, Barut, U. P. on 22 – 23 February 2022**

**Outreach activity via online mode at Govt. PG College Sector-1 Panchkula, Haryana on 9th February, 2022**

**Outreach activity (online mode) at Guru Gobind Singh Public School, Bokaro, Jharkhand on 21st Jan, 2022**

**National Mathematics Day (NMD-2021): 22.12.2021**

Virtual symposium entitled 'National Mathematics Day (NMD-2021)' at Jaypee University of Information Technology (JUIT), Wagnaghat, in association with Himachal Pradesh Council for Science Technology and Environment (HIMCOSTE), Government of Himachal Pradesh India on 22th Dec 2021.

**Prof. Sudhir Kumar visited Govt. PG College Sector-1 Panchkula on 15th November, 2021**

**Online Workshop on Plant Tissue Culture Techniques by The Department of Biotechnology and Bioinformatics JUIT to Vallabh Govt. College, Mandi, HP on 18th November, 2021**

**Students from Govt. Mohindra College Patiala-Punjab visited Department of BT and BI on 9th Oct, 2021**

**Prof. Sudhir Kumar delivered an invited WebTalk to B.Sc. final year students of RKMV, Shimla on the topic "Career Opportunities for Graduates in Life-Sciences" on 11th June 2021.**

**Prof. Sudhir Kumar delivered a webinar on Teaching and Learning for school and college faculty of Himachal and other states on 16th January, 2021.**

**A webinar was delivered for school, college and Universities faculties on Teaching and Learning by Prof. Sudhir Kumar 17 October, 2020. 75 participants of Himachal and other states attended this webinar in online mode.**

**Celebration of National Science Day 2020 at Govt. Degree College, Solan (HP): 28th Feb 2020**

**Visit to Army Public School, Ambala Cantt, Ambala on 20th November, 2019**

**Student Counseling at St. Edward's School on 18 and 19 October, 2019**

**Invited Lecture on World Alzheimer's Day at Loreto Convent School(Tara Hall), Shimla, H.P. on 21st September 2019**

**Report on Visit of students from Pine grove school, 13th Sep 2019**

**Loreto Convent School (Tara Hall) visited Jaypee University of Information Technology, Wagnaghat on 31st May, 2019**

**Visit to CSIR-Institute of Himalayan Bio-resource Technology, Palampur on 16th April 2019**

**Workshop cum Exposure visit to Department of Physics and Materials Science (PMS), JUIT by Govt. Degree College, Solan, HP on 14th March, 2019**

**Workshop cum Exposure visit to Department of Biotechnology and Bioinformatics JUIT by Govt. Degree College, Solan HP on 7th March, 2019**

**One Day Workshop on 'National Science' Day at St. Bede's College, Shimla on 28th Feb., 2019**

**Awareness and Exposure Visit of Farmers To JUIT Wagnaghat for their Socio-economic Improvement: 25th and 26th December, 2018**

**One Day Workshop on Biotechnological Techniques at Govt. College Sanjauli : 15th December, 2018**

**Outreach Activity Report, N.D.P.S.S School Galore at Budhwin, Hamirpur H.P.: 07th December, 2018**

**Academic Institution Visit to Central Research Institute Kasauli (H.P): 20th November, 2018**

**Academic Institution Visit to ICAR-Directorate of Mushroom Research Solan (H.P): 28th September, 2018**

**Govt. College Sanjauli Student's Educational Tour to JUIT - 11th September 2018**

**Outreach at B L Senior Secondary School Solan -30th August 2018**

**Workshop with farmers at Kullu - 7th May 2018**

**Outreach Activity - Govt college Sanjauli, Shimla (28th April, 2018)**

**Outreach Activity - Academic Visit-IHBT & CSK Palampur (16th - 19th April)**

**Outreach Activity - Educational Trip- UHF, Nauni (20th April, 2018)**

**Outreach Activity - Govt Vallabh Degree College Mandi, Himachal Pradesh (09th April, 2018)**

**Outreach Activity - Govt. PG College Solan (04th April, 2018)**

**Outreach Activity - Swami Vivekananda Govt. Degree College Ghumarwin (20th March, 2018)**

**Outreach Activity - Student and Faculty Visit from Sambalpur University Odisha (27 Feb to 02 March, 2018)**





[Outreach Activity - Academic Institution Visit NABI, Mohali \(06th Feb,2018\)](#)  
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## **Career counselling at Rajiv Gandhi Govt. Degree College Chaura Maidan Shimla -171004, Himachal Pradesh, 2<sup>nd</sup> May, 2023.**

A career counseling session was organized at Rajiv Gandhi Govt. Degree College Kotshera Shimla, Himachal Pradesh, on 2<sup>nd</sup> May, 2023. An outreach visit for the same was organized to the mentioned institute with an objective to give publicity to the post graduate programmes being offered by the JUIT. Prof. Vineet Sharma (Dept. of PMS) and Dr. Poonam Sharma (Dept of BT/BI) were nominated to carry out this outreach activity. The B.Sc. (Medical and Non medical) 3<sup>rd</sup> year students were selected as the target audience. The permission for the activity was taken from H'ble Principal of Govt. Degree College Kotshera Dr. Anupama Garg. Dr. Nitika Chauhan (Asth. Prof and H.O.D Chemistry) and Neena Gautam (Asth. Prof., Dept. of Chemistry) from Govt. Degree College Kotshera were instrumental in coordinating the event.

About 65 students were apprised by an introduction by Prof Vineet Sharma to the post graduate programmes being offered by Department of PMS at the Jaypee University of Information technology to the B.Sc. students. A brief outline of the Dept. of PMS at JUIT, its academic and research contribution were highlighted. Dr. Poonam Sharma provided the details of the procedure to get admission to the post graduate programmes at Deptt. of BT/BI of JUIT and how after post graduation students may opt for the doctoral studies at the University.

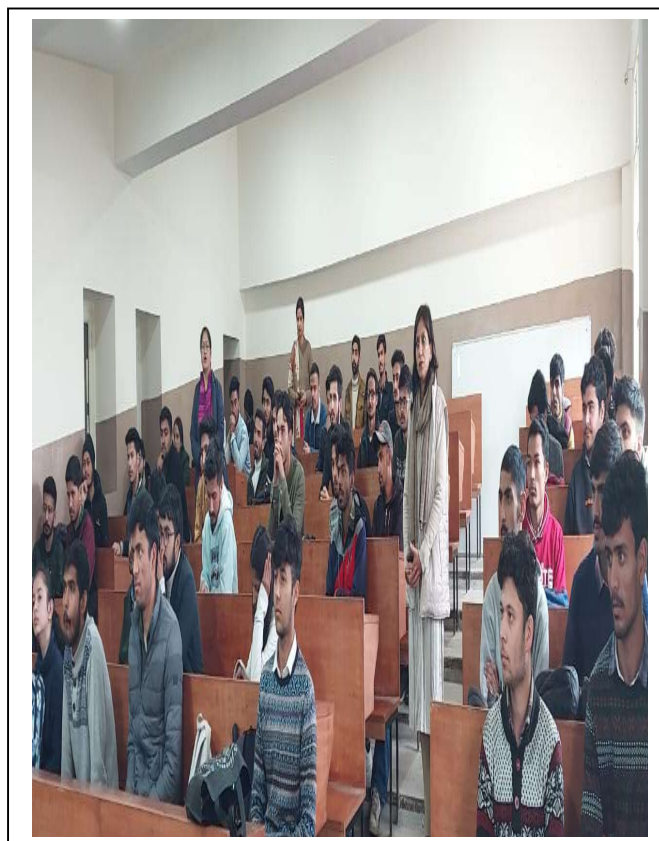
We would also like to extend our heartfelt gratitude to the Principal, Dr. Anupama Garg, Dr. Nitika Chauhan (Asth. Prof and H.O.D Chemistry) and Neena Gautam (Asth. Prof., Dept. of Chemistry) from Govt.Degree College Kotshera, Shimla for helping to coordinate this event.













## **Career counselling at Govt. Degree College Sanjauli, 'Centre of Excellence' Shimla -171006, Himachal Pradesh, April 24, 2023.**

A career counseling session was organized at Govt. Degree College Sanjauli, Himachal Pradesh, on April 24, 2023. An outreach visit for the same was organized to the mentioned institute with an objective to give publicity to the post graduate programmes being offered by the JUIT. Prof. Vineet Sharma (Dept. of PMS), Dr. Ragini Raj Singh (Dept. of PMS) and Dr. Poonam Sharma (Dept of BT/BI) were nominated to carry out this outreach activity. The B.Sc. 3<sup>rd</sup> year students were selected as the target audience. The permission for the activity was taken from H'ble Principal of Govt. Degree College Sanjauli Dr. Bhupinder Singh Thakur. Dr. Brijesh Chauhan (Assoc. Prof., H.O.D Physics) and Rita Chandel (Asst. Prof., Dept. of Chemistry ) from Govt. Degree College Sanjauli were instrumental in coordinating the event.

The students (50 in number) were apprised of the various scholarships for the post graduate studies being offered by the State Govt., Govt. of India and other agencies abroad by Dr. Brijesh Chauhan. It was followed by an introduction by Prof Vineet Sharma to the post graduate programmes being offered by various Science Departments at the Jaypee University of Information technology to the B.Sc. students. A brief outline of the Dept. of PMS at JUIT, its academic and research contribution were highlighted. Dr. Ragini Raj Singh and Dr. Poonam Sharma provided the details of the procedure to get admission to the post graduate programmes at JUIT and how after post graduation students may opt for the doctoral studies at the University.

We would also like to extend our heartfelt gratitude to the Principal, Dr. Bhupinder Singh Thakur, Dr. Brijesh Chauhan (H.O.D Physics) and Rita Chandel (Dept. of Chemistry ) Govt. Degree College Sanjauli, Himachal Pradesh for helping to coordinate this event.











# Report of the outreach program for MSc Physics course

## Summary

Date: 24.04.2023

Place: Shree Guru Gobind Singh Ji Government College, Paonta Sahib, H.P.

Time: 12:30 PM to 13.30 PM



On behalf of the PMS department of JUIT, I visited the college “Shree Guru Gobind Singh Ji Government College Paonta Sahib” affiliated to Himachal Pradesh University Shimla for the outreach program to introduce new course MSc in Physics on 24<sup>th</sup> April 2023. The college is located at Paonta Sahib in Himachal Pradesh almost 124 km from Solan. The duration of the program was for one hour from 12.30 PM to 13.30 PM. The event was divided into two sections involving 30 minutes talk followed by 30 minutes interactive session with the students.

The PMS department specifically chose the 24<sup>th</sup> April 2023 for the program due to that reason that it was the last day of BSc final year examination for BSc Physics students. The department, in advanced, contacted Dr. Mandeep Singh, a faculty of the Physics department of SGGSJ govt. college for arranging a meeting with the BSc final year students of the college after the end of the examination. Dr. Mandeep Singh already made arrangement for the program by gathering many students after the examination in a hall in the college. It was really nice experience meeting with him and the interested students.

## **Details of the event**

### **1. Talk**

An interactive session with the students spanning nearly for an hour was conducted. The idea was to take the students through a journey of the PMS department of JUIT. In the presentation, I pointed out the positive academic environment of JUIT campus along with the location in the heart of tranquil natural beauty and serene weather in Himachal Pradesh. I introduced the solid infrastructure of JUIT. Then I





introduced the faculties of the PMS department and their research areas to draw their attention towards the intended research based education for the MSc Physics course of JUIT. The number of international publications with the citations of each faculty member were also demonstrated to them. As I knew that they were BSc students I made the definitions of journal publication and citation clear to them. Then I also demonstrated them by picture the research labs of PMS department along with facilities and project fund details. I highlighted that fact that being MSc students of the PMS department of JUIT a special care would be taken for them to get success in the CSIR-UGC NET as well as interested students would be offered PhD programme in PMS department. I ended my talk with an important piece of information and that was fees per semester and I positively informed them about lowest fee per semester for MSc Physics in JUIT compared to the other universities.

## **2. Interaction session**

At the end of the talk, I interacted with each student, in the room, individually to enquire about their interest in higher education and they replied positively. I requested them also to share the picture of the pamphlet on the student groups to spread the news of the MSc Physics course of JUIT and other details they came to know on that day from my talk. Many of the students from different subjects also enquired about the course structure of MSc Physics. All in one, it was very positive experience.

## Outreach activity

**Destination:** Dr. Y.S Parman Government Post Graduate College, Nahan, Himachal Pradesh.

**Resource person:** Dr. Surajit Kumar Hazra, Dept of PMS, JUIT Waknaghat

**Purpose of visit:** M.Sc Physics

**Date of Visit:** 24 April 2023

**Time period:** 11:00 am – 2:00 pm

**Report:** The principal Madam, **Dr Veena Rathore**, permitted the interaction with the final year B.Sc students under the supervision of Physics faculty, **Ms Richa** in one of the classrooms. Approximately 30 students attended this interaction. The students were elaborately told about JUIT, Dept of PMS and its forthcoming M.Sc Physics program. The admission procedure, along with the scope/opportunities for the M.Sc graduates were elaborately discussed with the students. Hard posters were displayed in their notice boards with the permission of Principal Madam. A visit to the Dept of Physics was also completed during that time. The final year students were very keen to know whether any financial support will be provided to the students joining the M.Sc Physics program at JUIT?



Figure-1: A view of the Post Graduate College



Figure-2: During interaction with the students



Figure-3: Question/answer session

# Report

## Practical Sessions in Computer Science and Electronics Communication Engineering Techniques for Students of Govt. Polytechnic Sundernagar



Jaypee University of Information Technology, Waknaghat  
(24 March. 2023)

**Jaypee University of Information Technology, Waknaghat organized a “Practical Sessions in Computer Science and Electronics Communication Engineering Techniques” for the students of Govt. Polytechnic Sundernagar at JUIT on 24<sup>th</sup> March.** Dr Hemant Sood, Associate Prof.(BT&BI) gave an overview to the students about JUIT and motivated them for future avenues available at JUIT for career advancements. Under the signed MoU with Govt. Polytechnic Sundernagar the students of CSE (~41 no.) of 6th semester attended the Practical sessions conducted by Dr. Ekta Gandotra, Dr. Harsh Sohal, Dr. Salman Raju and Dr. Vikas Baghel along with their respective lab staff. Prof. Vivek Sehgal HoD(CSE&IT) provided insight about the Department of CSE and IT to the students and details about courses offered by the Department.

Vice chancellor Prof. R.K.Sharma took the interactive session with students and oriented them for Machine Learning, Data Structures and AI based knowledge for their holistic growth. Dr. Hemant Sood extended her acknowledgements and gratitude to the JUIT administration, Principal GPS, HoD Computer Engineering Mr DR Bodh. Neeraj Uppal ji, Faculties from GPS Kumari Neena, Mr Hemraj, students of B. Tech. Biotechnology (Ragini Mishra and Swetam) and committee members Dr. Ekta Gandotra, Dr. Harsh Sohal and lab staff for the smooth conduct of the sessions.

The details of news coverage, time schedule and pictures of the sessions are below mentioned.

[Practical Sessions@JUIT-Himachal Tonite](#)

[Practical Sessions@JUIT-CNI](#)



**Schedule of Practical Sessions in Computer Science and Electronics Communication Engineering Techniques” for Students of  
Govt. Polytechnic Sundernagar at JUIT (24<sup>th</sup> March. 2023)**

**Convener of the workshop : Dr Hemant Sood**

**Co-conveners : Dr Ekta and Dr Harsh**

Date & Time 17.03.2023	Resource Person	Event details
<b>11:00 AM</b>	Dr Hemant Sood Associate Prof.(BT&BI) Chairperson	Overview about JUIT and Workshop Address by VC sir (Prof. Rajendra Kumar Sharma)
<b>11:30-12:45 PM</b>	Dr. Ekta Assistant Prof. (SG) (CSE) Member	Orientation and demonstration of latest applications of Computer Science and specialized domains of engineering
<b>1:00- 2:00PM</b>	<b>Lunch Break</b>	
<b>2:00-3:00 PM</b>	Dr. Harsh Sohal Assistant Prof. (SG)(ECE) Member	Orientation and demonstration of applications of ECE in present times
<b>3:00-PM &amp; 3:15 PM</b>	<b>Feedback from the participants and Departure</b>	







## Report

### **One Day Workshop on Practices of Engineering Techniques for Government Polytechnic for Woman Kandaghat (H.P.)**



**Jaypee University of Information Technology, Waknaghat  
(17 March. 2023)**

**Dr. Hemant Sood, Associate Professor (BT &BI) organized a “One Day Workshop on Practices of Engineering Techniques” for Students of GPW, Kandaghat on 17<sup>th</sup> March 2023 along with her committee members Dr. Ekta, Assistant Professor, Senior Grade in Computer Science Engineering, Dr. Harsh Sohal, Assistant Professor, Senior Grade, ECE and Dr. Saurav Kumar, Assistant Professor, Senior Grade, CE.** Under the signed MoU with Govt. Polytechnic for Women(GPW), Kandaghat the students of CSE and ECE (~64 no.) attended the workshop and learned different engineering techniques of Computer Sciences, Electronic& Communication Engineering, and Civil Engineering via lab demonstrations. On the basis of feedback submitted by students, demonstrations of advance Computational tools and demonstrations of hardware and software by Mr Ashok and Mr Mohan in the CSE& IT Lab, Robotic and layouts of electronic circuits in the ECE Lab by Dr Vikas, Dr Salman along with Mrs Jyotsana, and Geotech and Hydraulics Labs of CE lab by Mr Amar and Mr Jaswinder were highly appreciated. Faculties from GPW, Ms. Swati and Mr. Hitesh, and Lab attendant Mr. Chain

Singh have accompanied the students and provided all necessary support. Dr. Hemant Sood extended her acknowledgments to the JUIT administration, Principal GPW, Kandaghat, Faculties, Staff and students of M.Sc. Biotechnology (Parul and Yatsi ) for the smooth conduct of the workshop.

The details of news coverage, time schedule and pictures of the sessions are below mentioned.

[Workshop on Practices of Engineering Techniques CNI](#)

[Workshop on Practices of Engineering Techniques Himchal Tonite](#)

**Schedule of One Day Workshop on Practices of Engineering Techniques for GPW at JUIT (17 March, 2023)**

**Convener of the workshop : Dr Hemant Sood**

**Co-conveners : Dr Ekta, Dr Harsh and Dr Saurav**

Date & Time 17.03.2023	Resource Person	Event details
10.00 AM	Dr Hemant Sood Associate Prof.(BT&BI) Chairperson	Overview about JUIT and Workshop Address by VC sir (Prof. Rajendra Kumar Sharma)
10.30-11:30 AM <b>Group 1</b>	Dr. Ekta Assistant Prof. (SG) (CSE) Member	Orientation and demonstration of applications of Computer engineering
10.30-11:30 AM <b>Group2</b>	Dr. Harsh Sohal Assistant Prof. (SG)(ECE) Member	Orientation and demonstration of applications of ECE in present times Determine the permeability of magnetic materials by plotting B.H.Curve
11.30-12:30 <b>Group 2</b>	Dr. Ekta Assistant Prof. (SG) (CSE) Member	Orientation and demonstration of applications of Computer engineering
11.30-12:30 <b>Group1</b>	Dr. Harsh Sohal Assistant Prof. (SG)(ECE) Member	Orientation and demonstration of applications of ECE in present times Practical demonstration :Determine the permeability of magnetic materials by plotting B.H.Curve
1:00- 2:00PM	<b>Lunch Break</b>	
2:00-3:00PM <b>Group1 &amp; 2</b>	Dr Saurav Assistant Prof. (SG)(CE) Member	Orientation with applications of Civil engineering in present scenario Practical demonstration: 1.Study forces in various members of Jib Crane. 2. Determine support reactions for simply supported beam
3:00-PM & 3:30 PM	<b>Feedback from the participants and Departure</b>	



## Glimpses of the event :



## **Career counselling at Govt. Polytechnic for Woman Kandaghat, Distt. Solan, Himachal Pradesh, March 14, 2023.**

A career counselling session was organised at Govt. Polytechnic for Woman Kandaghat, Distt. Solan, Himachal Pradesh, March 14, 2023. The program was conceptualized by DC Solan and was organized by HPKVN team along with GPW Kandaghat. Nearly 200 diploma students of 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> year of ECE, Computer Science and Pharmacy participated.

Chief Guest Prof. R. K. Sharma, Vice Chancellor Jaypee University graced the occasion with words of wisdom. Prof. Sharma emphasized on the need and importance of focus in the era of distractions and multitasking. He shared with the audience that in the coming age of artificial intelligence the ones who can stay focused might stay relevant. Dr. Harsh Sohal and Mr. Chandrapal counseled the students about the ever increasing importance of higher education in the knowledge societies of the future. Students were made aware of various courses being offered by Jaypee University of Information Technology Wanknaghat while highlighting the prestigious placement records of previous years. They advised the students to make an informed decision while choosing higher education institution.

We would like to thank DC Solan for organizing the event. We would also like to extend our heartfelt gratitude to the Principal Govt. Polytechnic for Woman Kandaghat, Solan, HOD ECE Department and faculty and staff members for the reception, support and felicitations extended to the Jaypee University team in this program.













## **VISIT TO PINE GROVE SCHOOL, SUBATHU**

Prof. Sudhir Kumar was invited as a resource person in Teachers' Training Programme of Pine Grove School Subathu, Solan on 15Feb, 2023. He was having a session on 'Joy of Teaching'. The session was an interactive one followed by discussion with school teachers. The session included the ways and means to improve teaching, to inculcate creativity, aims of teaching, skills, students'-teacher relationship. The various teaching methodologies based on creativity, freedom and opportunities to students were discussed. Prof. Sudhir Kumar thanked Cap. A.J. Singh and School principal Mr. Pankaj Sharma along with other school staff for invitation.

# INDUSTRIAL VISIT

## BHARAT SANCHAR NIGAM LIMITED

### HP TELECOM CIRCLE (BSNL) Solan, Himachal Pradesh

on

**February 04, 2023**

The Department of Electronics and Communication Engineering (ECE), Jaypee University of Information Technology Wknaghat (JUIT-W) has organized student's industrial visit to **BHARAT SANCHAR NIGAM LIMITED: HP TELECOM CIRCLE (BSNL) Solan, Himachal Pradesh** on 4<sup>th</sup> February 2023. There were 26 students from semester IV and VI along with 3 faculty members and 1 technical staff participated in this visit.

This visit has been organized under the MoU between the two organizations which was coordinated by Dr. Nafis Uddin Khan, Dr. Shweta Pandit and Dr. Alok Kumar under the guidance of Head of the Department - ECE Prof. Rajiv Kumar. The main objective of this visit is to strengthen the technical knowledge and industrial experience of the students in mobile and telecommunication engineering field. In this visit, the students from our Department have undergone through real time working and environment of BSNL and interacted with the technical staff and BSNL professionals. I am sure this visit would surely help the students for internship and job career opportunities.









**भारत संचार निगम लिमिटेड**  
(भारत सरकार का उपक्रम)  
**BHARAT SANCHAR NIGAM LIMITED**  
(A Govt. of India Enterprise)

O/o DE (INDOOR) TELEPHONE EXCHANGE SOLAN


**CERTIFICATE**

This is to certify that a team of 30 students and faculty members from Department of Electronics and Communication Engineering, Jaypee University of Information Technology, Wagnaghat have undergone the industrial visit at **BHARAT SANCHAR NIGAM LIMITED: HP TELECOM CIRCLE (BSNL) Solan, Himachal Pradesh** on **February 04, 2023** as per the company norms and regulations.

They have completed the industrial visit successfully.

Place: Solan, H. P.

Date: February 04, 2023

  
Divisional Engineer  
BSNL Telephone Exchange  
Solan (HP)-173212

**Atal Bihari Vajpayee Govt Institute of Engineering and Technology (ABVGIET), Pragatinagar, Shimla student's visit to the department of ECE, JUIT.**

On 20<sup>th</sup> December 2022, a delegation of 26 students of Electronics and Communication Engineering Department of Atal Bihari Vajpayee Govt Institute of Engineering and Technology (ABVGIET), Pragatinagar, Shimla has visited the Jaypee University of Information Technology (JUIT), Wanknaghat along with their two faculty members Ms. Vandana Thakur and Mr. Saurabh Mehta. The Electronics and Communication Engineering Department of JUIT has organized the visit under the MoU between the two institutes which was coordinated by Dr. Nafis Uddin Khan and Dr. Shweta Pandit under the guidance of HoD ECE Prof. Rajiv Kumar. The main objective of this visit is to strengthen the academic tie-up between JUIT and ABVIET. During this visit, students of ABVGIET were made aware of the different lab facilities at JUIT and ECE department. They were given demonstration of different projects of IoT Lab, Mitsubishi Lab, Robotics lab and informed about different collaboration opportunities of both organizations. The students have also interacted with the B.tech 4<sup>th</sup> year and M.tech. 1<sup>st</sup> year ECE students.















A report  
on Academic Institution Visit to  
**Institute of Himalayan Bioresource  
Technology (CSIR-IHBT) & Agriculture  
University Palampur**



On 16<sup>th</sup> November 2022 by M.Sc. & B. Tech 2<sup>nd</sup> & 3<sup>rd</sup> Year  
(Biotechnology-Students) Organized by Department of  
Biotechnology and Bioinformatics Jaypee University of  
Information Technology Waknaghat , H.P.





An academic visit was carried out to Institute of Himalayan Bioresource Technology (CSIR-IHBT) & Agriculture University Palampur on 16th November 2022 for M.Sc. and B.Tech. Biotechnology second & third year students. The purpose of the visit was to enlighten students to various research activities undertaken in the prestigious research institution, and to give students a chance to interact with scientists and scholars working on cutting-edge biotechnology research. It was also an opportunity for the students to see the latest infrastructure used in the biotechnology sector.

The institute has a mission “to discover, innovate, develop and disseminate the processes, products and technologies from Himalayan bioresources for society, industry, environment and academia”.

Dr Sudhir Kumar and Dr Jitendraa Vashistt along with 34 students visited IHBT, On reaching the institute, we were received by Dr. Ashish Rambhau Warghat (Sr. Scientist in Biotechnology Division) and Dr. Girish Nadda (Senior Scientist). Dr. Ashish addressed the students and explained major research divisions at IHBT. He majorly explained about the processes of plant cell & tissue engineering, aeroponics, hydroponic & aquaponic farming. He told us about the major researches being carried out such as formulation of Waterhyssop (Brahmi) plant in a capsule form used to improve memory, anxiety issues & various other high altitude Himalayan medicinal plants for sustainable production of secondary metabolites & production of metabolite enriched plant biomass & understanding of mechanism of nutrients towards growth & development. For e.g., *Rhodiola* a herb found at 8000 feet of Ladakh mountains. Students’ visited the media preparation room & algae culture facility learnt about the development of methods for microalgal metabolites products under the guidance of Dr. Vidyashankar Shrivatsan.

Students’ visited genetics & genomics study lab headed by Sr. Principal Scientist Dr. R.K. Sharma, where we were briefed about reversed and forward genetics along with sequencing technologies for identification of molecular markers & genome mapping in tea, Stevia & other targeted plant species of North Western Himalayan region.

There was a visit to Plant & Molecular Biology Lab & our team was introduced to next Generation sequencing instruments which they used to sequence whole genome of *Picrorhiza kurroa* along with various other equipment.

The Food lab headed by Dr. Shashi Bhushan Sr. Principal Scientist, was also visited where the main research was utilization of traditional low value local food bioresources for development of high end products of international standards (tea). Team was introduced to various instruments used for phytochemical analysis such as water activity motor, rheometer, sonicator, ashing machine & freeze dry packaging of food products.

Students got knowledge about structural bioinformatics under the guidance of Dr. Rituraj Purohit where analysis of biological systems such as 3D structure of proteins, Protein drug complex & nucleic acid were being carried out.

Molecular microbial genetics laboratory was equally interesting where students’ were introduced to various strategies such as whole genome sequencing, proteomics, genetics & bioinformatics to develop a bioprocess for the industrial use (such as bioplastics). The IHBT

team also study higher altitude microbes with major focus on the enzymes of industrial use while studying the adaptation of microbes to extreme Himalayan niches.



On 17<sup>th</sup> November 2022, the team we also visited Himachal Pradesh Krishi Vishvavidyalaya. The University imparts education in agriculture and other allied branches, furthering the advancement of learning, research and undertaking extension of such branches, especially to the rural population of Himachal Pradesh.

Dr. Chaudhary of University facilitated our visit. Dr. Parmar took the students to University Museum and introduced various equipments developed to help farmers in agriculture. Students were curious to see new type of seeds such as Maize varieties, Saffron bulbs, Barley & paddy varieties. Polyhouses visit was also knowledgeable where we saw the cultivation of cauliflower variety (Megha) , cucumber & tomato & learnt the various environmental conditions under which they grow.

Prof. Sudhir Kumar and Dr. Jitendraa Vashitt extended gratitude to the management of, IHBT & Himachal Pradesh Krishi Vishvavidyalaya for their permission and support to make this visit possible and achieving our objectives for the students. Dr. Abhishek Chaudhary arranged for all the necessary permissions required for this visit.

# CRIKC-CII Exhibition cum Industry Academia Meet

Punjab University (PU), Chandigarh

on

12<sup>th</sup> November 2022

A team of the following members from Department of ECE & ECM, JUIT Solan have represented the University in **CRIKC-CII Exhibition cum Industry Academia Meet** held on 12<sup>th</sup> of November 2022 organized by Technology Enabling Centre (TEC), Punjab University (PU), Chandigarh.

1. Dr. Nafis Uddin Khan (Faculty)
2. Mr. Munish Sood (Faculty)
3. Dr. Ajay Kumar Singh (Lab Staff)
4. Mr. Dharendra Kumar Singh (Lab Staff)
5. Mukul Anand (IV Year Student)
6. Zeeshan Naseem (IV Year Student)
7. Shikhar Trivedi (IV Year Student)
8. Tushar Paul (III Year Student)
9. Ekal Sharma (III Year Student)
10. Abhishek Kumar (II Year Student)
11. Utkarsh Sharma (II Year Student)
12. Deepanshu (II Year Student)
13. Sanat Jain (II Year Student)
14. Parth Gupta (I Year Student)
15. Sambhav Thakur (I Year Student)

In this great event, the students from our Department have presented their ideas of innovation through real time working projects and interacted with industry professionals. I am sure this visit would surely help the students for entrepreneurship and internship opportunities.





The details of the projects presented in the meet are as follows:

**1. Hydrohive (Mukul Anand, Zeeshan Naseem and Shikhar Trivedi (IV Year ECE))**

Hydrohive is a start-up dedicated to providing good quality food crops in adequate time with almost zero percent chance of crop failure under any type of climatic condition and agricultural land. Unlike traditional methods, our method will ensure less investment, and fewer resources, and produce more healthy and nutritious yields. Agri-sector is growing in technology which helps in making traditional methods easy but, the technique we are using will change the traditional methods of farming for the betterment of the farmers as well as the Agri sector's economy. Also, common people can have their own farms at home and eat healthy homegrown crops. Hydrohive will provide system placements as well as crops. According to the need of the customer, we can provide either the whole farm placement on the land given by the customer or if the customer needs only the crops and not the farm itself then that is also possible at a fair amount. We have greatly emphasized our customer outreach so that we can cater to the maximum consumer segment. Being a cloud-based agritech startup, we are keen to improve at any point in time and with our 24/7 customer support, we can handle the slightest issue with any of our clients.



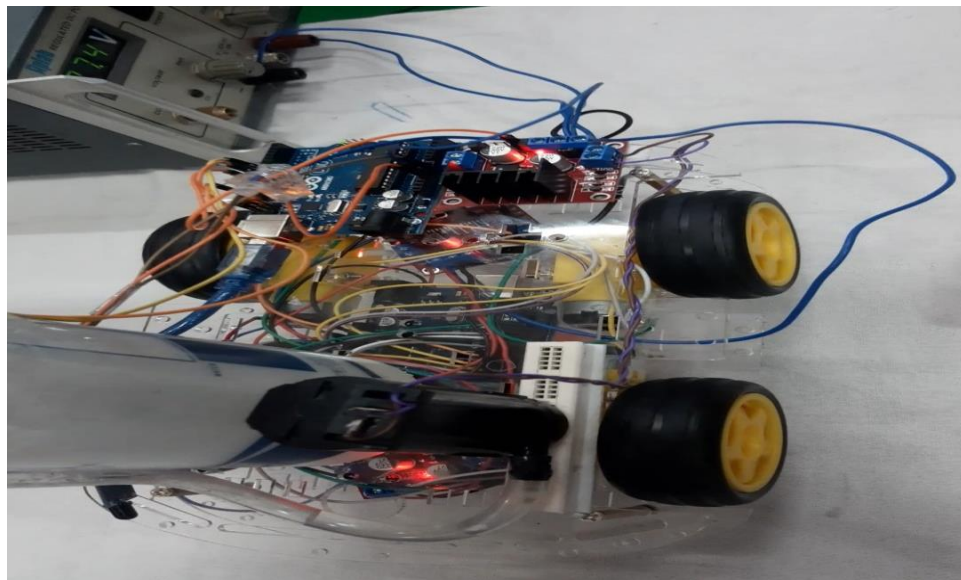
**2. Landslide Prediction System (Tushar Paul and Ekal Sharma (III Year ECE))**

This project is to promote disaster preparedness & to minimize the losses of lives during landslide. For the prototype model we used different sensors including the moisture sensor, vibration sensor, humidity and temperature sensor, ultra-sonic sensor, gyroscope, ESP-32 and Arduino UNO. Arduino IDE is used to get the output from the sensors. In the lab real time landslide model was created, the slopes were built at different angles to test the model multiple times. Output is then send to the Thing Speak software where it can be seen graphically and the results can be analysed & processed. All the different outputs including the soil moisture value, humidity value, vibration value, distance by ultra-sonic sensor, temperature in Celsius and Fahrenheit and acceleration values can be analysed on the laptop or mobile phones.



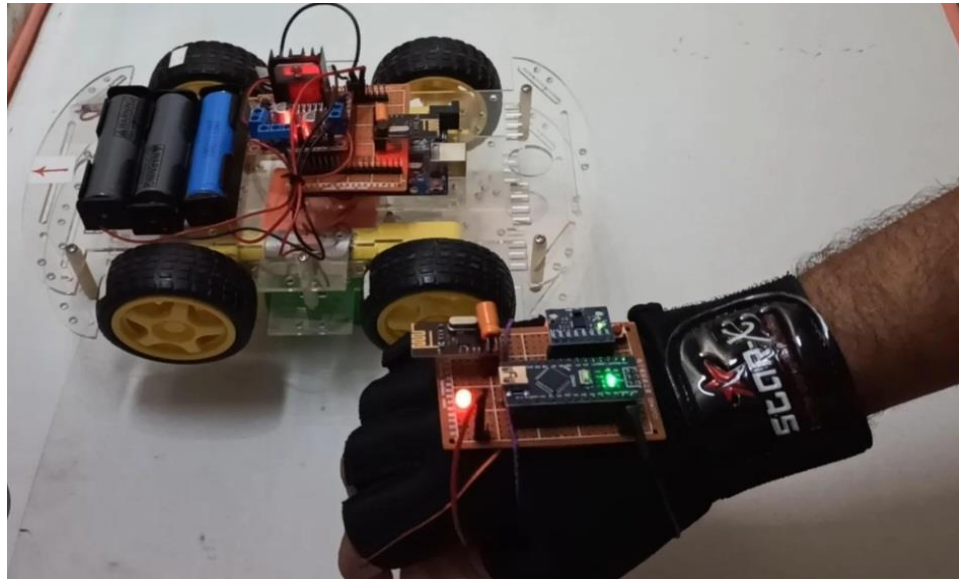
### 3. **Fire Fighting Robot (Abhishek Kumar, Utkarsh Sharma, Sanat Jain and Deepanshu (II Year ECE & ECM))**

The problem with the existing system is that the firefighting environment is hard to reach and, being the hilly area it make the situation even worse as it hard for Fire Truck to reach the fire scene and fight for the same. Additionally, the current methods applied in firefighting are inadequate and is heavily relying on humans who are prone to error and life thread due fire debris falling from the hills. The Proposed model will be able to solve all the problem mentioned in existing system like, ability to be deployed at fire location, detect the fire and spray the water or CO<sub>2</sub> accordingly. The robot will feature tank like design having spikes on its continuous track that will provide skid prevention and will make it suitable for all weather and terrain. It will also have four hydraulic arm having small wheel attach that will prevent the robot from flipping over.



#### **4. Gesture Recognition (Parth Gupta and Sambhav Thakur (I Year ECE))**

Gesture recognition can be seen as a way for computers to begin to understand human body language. Compared to the primitive user interfaces, such as keyboard and mouse, it builds a richer bridge between the computers and humans. In the project we made we used various integrated circuits and a simple microcontroller i.e. Arduino lily pad to act as a brain of computer robot. Accelerometer has also been used to get relevant data deciphering various physical movements and all to deduce and move the vehicle according to the gestures given. We made a handheld vehicle that can be integrated into just about anything and remotely control it to perform various tasks simultaneously with some integrated function too.



#### **Key Highlights:**

1. Exhibition of showcase real time working projects and technologies in front of industry people.
2. Expression of Interest (EoI) from industry for commercialization of exhibited projects and technologies.
3. Panel discussions of industry people to know R & D needs of industry.
4. Start – Up and entrepreneurship opportunities in collaboration with industries.
5. Discussions on Industry-Academic relationships for placements and employability.



A  
REPORT ON  
EXPERT VISIT  
TO  
**Jaypee University of Information Technology**  
Waknaghat-Solan (H.P)-173234



**ON 25<sup>th</sup> November 2022**

ORGANIZED BY  
Department of Biotechnology and Bioinformatics  
JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY-  
WAKNAGHAT

## **(JUIT -Paraxel Researcher Experience)**

### **Expert: Profile – Ms.Neha Kapoor**

Sr. Manager, Paraxel India Pvt. Ltd.

- Ms Neha Kapoor, Sr. Manager Paraxel India Pvt. Ltd- Mohali-Punjab. She has a successful and proven track record in managing the medical writing with vast experience of authoring/reviewing. She explained the same during her talk. Her work included:-Aggregate reports including but not limited to Periodic Safety Reports (PSRs) including Periodic Safety Update Reports (PSURs), Periodic Benefit-Risk Evaluation Reports (PBRERs), Addendum to Clinical Overviews (ACOs), Semi-Annual Safety Reports (SASRs), Corporate Addendum Reports States Periodic Adverse Drug Experience Reports (PADERs). Ms.Neha's talk was very interactive and students were inquisitive about phases of clinical trials of drugs and skills to be acquired to attach with Industry.
- Ms Kapoor also responsible for end-to-end signal management process (as applicable), generating Line Listings, creating drug lists/drug folders, performing regulatory submissions, tests electronic submissions gateways, tracking compliance monitoring of submissions in accordance with client/international conventions (as applicable), responsible for preparing the narratives associated with the client's/sponsor's products from clinical trials for Clinical Study Reports (CSRs) or in order to support any health authority requests in accordance with regulatory and client's/sponsor's requirements (as applicable).
- Paraxel India is among the leading clinical research organizations (CROs) working on different therapeutics areas including Oncology, Infectious Disease, Inflammation, General Medicine and providing the full range of Phase I to IV clinical development services to help life-saving treatments reach patients faster.
- Ms.Neha Kapoor visited the campus of JUIT and research facility in the department of Biotechnology and Bioinformatics she was impressed with research and study environment here.
- Ms. Kapoor interacted with faculty member, Ph.D. scholars and discussed their field of interest, he appreciated the research work carried out by faculty in the department of Biotechnology and Bioinformatics.
- Ms. Kapoor was very positive to start collaborative certificate program in Pharmacovigilance. She was very positive for paraxel –JUIT collaborative research
- We have discussed the possibility of student training/internship at Paraxel in near future.
- After meeting, Ms. Kapoor was very positive for more and more meeting or visit in JUIT in near future.



Thanks& Regards

Dr.Abhishek Chaudhary

Department of Biotechnology and Bioinformatics

Jaypee University of Information Technology

Solan-H.P

Prof. Dr.Sudhir Kumar (HOD)

Department of Biotechnology and Bioinformatics

Jaypee University of Information Technology

Solan-H.P



REPORT  
ON  
ACADEMIC INSTITUTION VISIT  
By  
**KHALSA COLLEGE PATIALA-PUNJAB**  
To  
DEPARTMENT OF BIOTECHNOLOGY  
JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY-  
WAKNAGHAT  
ON  
**31<sup>st</sup> October - 1<sup>st</sup> Nov 2022**



ORGANIZED BY  
Department of Biotechnology  
JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY  
WAKNAGHAT, SOLAN

Academic institution visit was carried out at Department of Biotechnology, Jaypee University of Information Technology Waknaghat, Solan on 31<sup>st</sup> October, 2022 and 1<sup>st</sup> November 2022 by B.Sc. Biotechnology students from Khalsa College Patiala, Punjab. The main objective behind the visit was exposure of UG students to make them aware about how various research and teaching activities related to microbiology, molecular biology, plant biotechnology, environmental biotechnology, biogas production and sophisticated instrumentation being conducted at the Department of Biotechnology & Bioinformatics, Jaypee University of Information Technology Waknaghat, Solan. Placement and higher related queries from the students were also addressed and the students were provided guidance related to PG programs being run in JUIT.

Dr. Rahul Shrivastava along with Dr. Abhishek Chaudhary and Mr. Ismail Siddiqui coordinated the visit. 26 students (16 girls and 10 boys) along with two faculty members (Dr. Nipunjot Kaur Soni Bains and Dr. Arpit Sharma) reached at JUIT from Khalsa College Patiala, Punjab on 31<sup>st</sup> October. Stay of the students was provided by JUIT with visit to the picturesque JUIT campus.



On 1<sup>st</sup> November the students were guided by Dr. Rahul Shrivastava along with Dr. Abhishek to the laboratories, where an orientation of was given by Dr. Rahul Shrivastava about the Department teaching and research activities.

After introduction, all students were taken to respective research labs that helped them to understand the research work going on the respective labs.





Students took almost three hour to see all laboratories and complete set of instruments which was followed by questions of students.



We appreciate faculty and staff member who guided students with each and every question with detailed answers. Visit to the laboratories was followed by a high tea and group photograph.



The students were then taken by Dr. Abhishek to JUIT Biogas facility (managed and run by the Dept of Biotechnology and Bioinformatics), where they were explained about working and science involved in biogas production along with live demonstration of the facility and its usage. The students were apprised about need of a holistic and sustainable development based research.



Students got real feel of research work after this visit which was evident from their verbal feedback. They got an idea to transfer their theoretical knowledge to practical implication. This will even help students to understand subject matter clearly in future also. Faculties of Khalsa College Patiala, Punjab were thankful to our team for this visit. The visit ended with lunch and good wishes to the students.

Dr. Rahul Shrivastava along with Dr. Abhishek would like to extend our gratitude to our Head of the Dept., Prof. Sudhir Syal, Dean Academic Prof. Ashok Gupta, Registrar Sir Maj. Gen. R. Bassi and Vice Chancellor Sir, Dr. R.K Sharma for permission, budget and helping us to organize this visit.

Thanks

Dr. Rahul Shrivastava



**Dr. Udayabanu and Mr. Chandra Pal Gautam Visited DAV Public School, Sunder Nagar, Himachal Pradesh on 15<sup>th</sup> October 2022**

Dr. Udayabanu and Mr. Chandra Pal Gautam Visited DAV Public School, Sunder Nagar, Himachal Pradesh on 15<sup>th</sup> October 2022. Cluster level DAV National sports tournament in Cricket and Chess was conducted at DAV Public School, Sunder Nagar, Himachal Pradesh on 15<sup>th</sup> October 2022. Nearly 200 Participants from 15 DAV Public Schools of the vicinity took part in the event. Honourable Vice Chancellor, Jaypee University of Information Technology provided sponsorship of Rs. 20,000/- for the conduct of the same.



## डीएवी में क्लस्टर स्तरीय क्रिकेट शतरंज प्रतियोगिता का आगाज



### स्टाफ रिपोर्टर – सुंदरनगर

बच्चों के चहुंमुखी विकास के लिए डीएवी संस्था विभिन्न स्तरों पर समय-समय पर खेलों का आयोजन करवाती है। डीएवी कालेज मैनेजमेंट कमेटी नई दिल्ली द्वारा आयोजित स्कूल खेल महासंघ से संबद्धता प्राप्त डीएवी नेशनल स्पोर्ट्स के अंतर्गत डीएवी विद्यालय सुंदरनगर में दो दिवसीय क्लस्टर संकुल स्तरीय अंडर-19 क्रिकेट एवं शतरंज प्रतियोगिता का शुभारंभ हुआ। इस प्रतियोगिता में 12 डीएवी विद्यालय के लगभग 200 प्रतिभागियों ने भाग लिया जिसमें क्रमशः डीएवी सुंदरनगर, मंडी, ग्रयोह, मनाली, नेरचौक, गोहर, जोगिंदरनगर, कुल्लू, एसीसी बरमाणा, आवासीय शाखा बरमाणा, बिलासपुर, धुमारवीं शामिल हैं। प्रतियोगिता का आगाज मुख्यातिथि एवं पर्यवेक्षक संजय ठाकुर प्रधानाचार्य डीएवी जोगिंदरनगर और चंद्रेश्वर शर्मा प्रधानाचार्य डीएवी गोहर के आशीर्वाचनों के साथ हुआ। तत्पश्चात डीएवी विद्यालय सुंदरनगर के प्रधानाचार्य मोहित चुघ ने मुख्यातिथियों, पर्यवेक्षकों एवं जेपी विश्वविद्यालय वाकनाघाट से आए हुए सह

प्रध्यापकों उदय भानु और चंद्रपाल गौतम को हिमाचली टोपी, स्मृति चिह्न एवं पौधा भेंट करके उनका स्वागत किया और जेपी विश्वविद्यालय के उपकुलपति के सहयोग हेतु उनका आभार व्यक्त किया। खेल प्रतियोगिताओं का शुभारंभ डीएवी गान से किया गया। शतरंज की प्रतियोगिता विद्यालय परिसर में हो रही है। शह और मात की खेल प्रतियोगिता जिला मंडी शतरंज संघ के पदाधिकारी हंसराज ठाकुर, संयुक्त सचिव राजकुमार शर्मा, चीफ आर्बिटर एवं संयुक्त सचिव प्रांजलि शर्मा, नेशनल आर्बिटर जतिन, नेशनल इंस्ट्रक्टर और अरविंद नेशनल इंस्ट्रक्टर के निरीक्षण में हो रही है। क्रिकेट के मैच महाराजा लक्ष्मण सेन महाविद्यालय के मैदान में हो रहे हैं। क्रिकेट प्रतियोगिता में अम्पायर के रूप में राज्य स्तरीय खिलाड़ी लक्षित, तुषार और स्कोरर के रूप में गौरव मौजूद रहे। मुख्यातिथि एवं पर्यवेक्षकों ने बच्चों को खेलों में उत्कृष्ट एवं अनुशासित प्रदर्शन करने हेतु प्रोत्साहित किया। सभी प्रतिभागी उत्साहपूर्वक खेल प्रतियोगिता में भाग ले रहे हैं। यह प्रतियोगिता 16 अक्टूबर 2022 तक चलेगी।



## **Visit of JNV Solan Girl Students under Vigyan Jyoti Programme**

### **(Friday, 7<sup>th</sup> October, 2022)**

As a part of Vigyan Jyoti Programme (an initiative launched by the Department of Science & Technology (DST)), the girl students of class 10 to 12 from JNV Solan visited JUIT, Wagnaghat on Friday, 7<sup>th</sup> October, 2022. 104 students along with 4 teachers reached the campus at around 10:40 AM. Dr. Ekta Gandotra, Zonal Officer, Vigyan Jyoti Programme, welcomed them and spoke about career opportunities. They were then split into two groups and taken to different departments of JUIT, including Computer Science & Engineering and Information Technology, Biotechnology/Bioinformatics, Civil, Electronics and Communication, and Physics department.



They visited Computer Science & Engineering and Information Technology departments' labs to learn about the softwares and projects that JUIT students are working on. Mr. Rohit and Dr. Avani Vyas briefly introduced about the various parts of a computer system and computer configuration. Dr Avani Vyas also discussed about the various uses of computer and related job opportunities.



Dr. Jata Shankar and Dr. Shikha Mittal coordinated the visit of students to the department of Biotechnology and Bioinformatics. The students were made to visit different labs such as Plant Tissue Culture Lab by Dr. Hemant Sood; Bioinformatic lab by Dr. Shikha Mittal, and The Genomics lab by Dr.



Jata Shankar where they were informed about different biotechnological techniques and instruments along with facilities used for academic and research projects.



Lunch was served to all students and teachers at JUIT's Annapurna (Mess). They also enjoyed a round of the entire campus after lunch.







Dr. Sugandha and Mr. Chandrapal Gautam coordinated the visit of Civil department labs. The students were made to visit the Concrete lab, Highway lab, Environment lab, Workshop Lab, Mechanics & Survey Lab, Fluid Lab and CAD lab. They were also given live demonstrations of a few lab tests of the Concrete and Environment Engineering labs.







The visit to the Electronics and Communication Engineering department was organised by Dr. Salman Raju Talluri and Mr. Kamlesh Kumar Srivastav. The students were made to visit the various labs, such as the Basic Electronics Lab, Advance Communication Lab, and Industrial Automation Lab etc. They performed an experiment on the measurement of electric power, voltage, current and kilowatt-hour in the Electrical Science Lab.



Visit to Physics lab was coordinated by Dr. Ragini Raj Singh and Mr. Kamlesh Mishra who interacted with the students, discussed various physics concepts and answered many exciting queries from the students. It is rightly said that "See & know" is better than 'read & learn' which was evident from their enthusiastic verbal feedback. They also demonstrated various optics experiments to the students.





Around 4:45 p.m., the students joyfully exited the campus.



## **Outreach Activities and Career Counseling Programme**

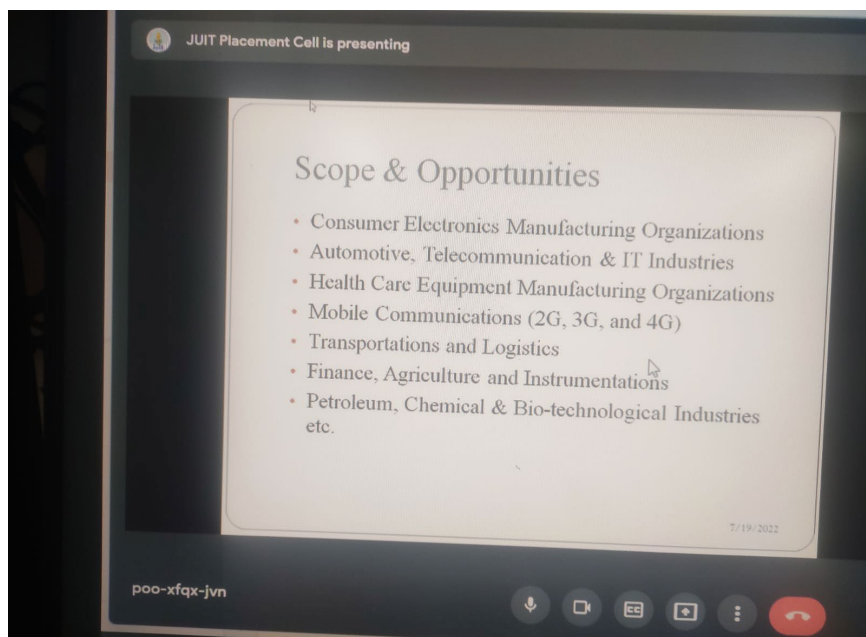
Government Polytechnic for Women, Kandaghat, Solan, Himachal Pradesh

On

**July 19, 2022**

An outreach and career counseling activity for 3<sup>rd</sup> year Diploma students of the Department of Electronics and Communication Engineering, Government Polytechnic for Women, Kandaghat, Solan, Himachal Pradesh was carried out by the Department of Electronics and Communication Engineering, Jaypee University of Information Technology Waknaghat on July 19, 2022. Dr. Nafis Uddin Khan and Dr. Harsh Sohal presented a webinar for the 3<sup>rd</sup> year Diploma students of Government Polytechnic for Women, Kandaghat, Solan, Himachal Pradesh. They guided the students for their future education and career plan. The scope in UG course of B. Tech in Electronics and Communication Engineering and the related job perspectives have been discussed with the students.

### **Photographs**



## **PG Career Counseling Programme**

**Atal Bihari Vajpayee Institute of Engineering and Technology, Pragatinagar, Shimla**

**on**

**July 15, 2022**

An orientation and PG career counseling activity for final year B.Tech (ECE) students of Atal Bihari Vajpayee Institute of Engineering and Technology, Pragatinagar, Shimla was carried out by the Department of Electronics and Communication Engineering, Jaypee University of Information Technology, Waknaghat on July 15, 2022. Dr. Nafis Uddin Khan and Dr. Alok Kumar visited Atal Bihari Vajpayee Institute of Engineering and Technology, Pragatinagar, Shimla for guiding the final year B.Tech (ECE) students for their future education and career plan. The scope in PG course of M. Tech (Internet of Things) and the related job perspectives have been discussed with the students.

### **Photographs**





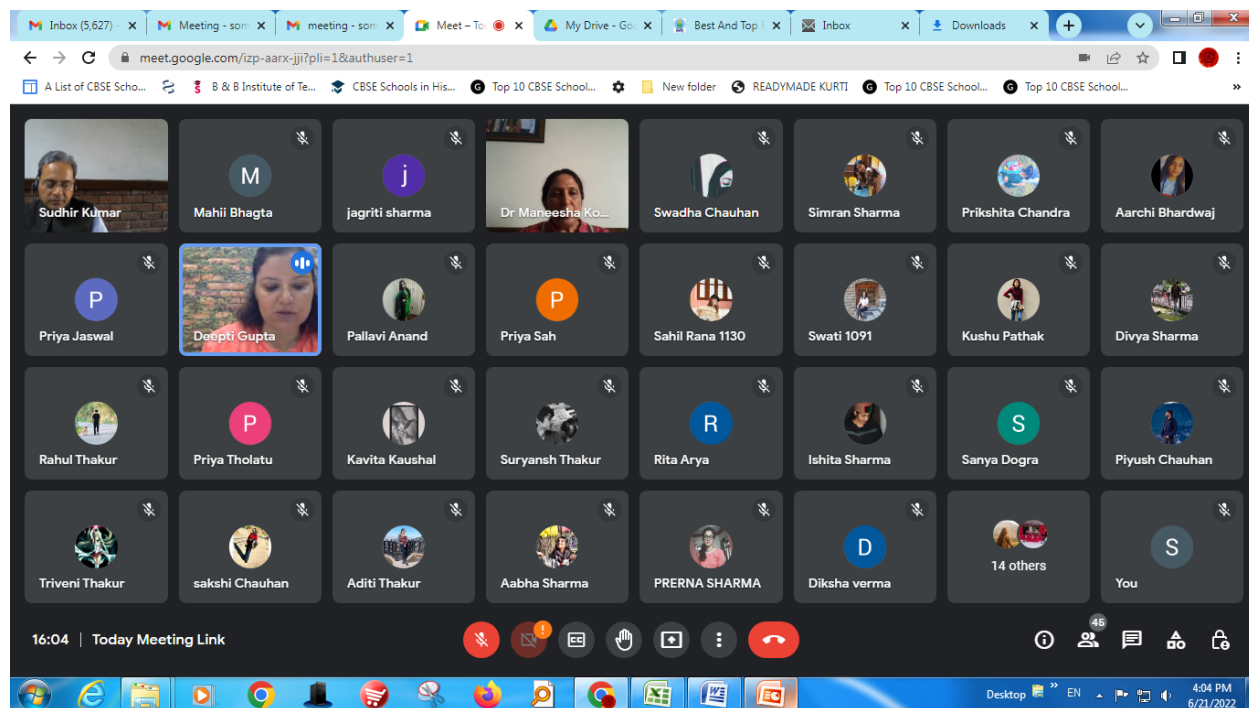
### Visit to different Schools

Dr. Shikha Mittal, Dr. Poonam Sharma and Mrs. Mamta Mishra visited the different Solan Schools including MRADAV Public School, Gurukul International School, B.L. Central Public School, and Geeta Adarsh Vidyalaya on 11<sup>th</sup> July 2022. The students were counseled about the scope of Biotechnology and Bioinformatics. The students were also encouraged to participate in the event “Dr. Har Gobind Khorana - Remembering the legendary biochemist on his birth centenary” organized by the Dept. of Biotechnology and Bioinformatics, JUIT on 8<sup>th</sup> August 2022. Seventy students participated in this event in different competitions like; quiz competition, poster presentation and oral presentation.



## A lecture on Career Opportunities for Science Graduates

Dr. Sudhir Kumar, Professor & Head, Department of Biotechnology and Bioinformatics provided carrier advice to the B.Sc. students of Saunjauli (Shimla) college on 21 June, 2022. Dr. Maneesha Kohli, Faculty of college arranged this lecture and Ms. Deepti introduced Prof. Sudhir to the students. The students were very curious about their carrier after the Bachelor of Science. Therefore, Prof. Sudhir introduced several examinations such as JAM–Joint Admission Test for M.Sc. (<https://jam.iisc.ac.in>) in Biotechnology, Chemistry, Mathematics etc, GAT-B for M.Sc. Biotechnology - (<http://rcb.res.in/GATB>, GAT-B seats – 20 in HPU, 10 in JUIT), CUET-PG (42 Universities), about CLAT, SSBs, HAS and others. Students were also given knowledge about DBT Skill Vigyan Programs going on in Himachal Pradesh. Eligibility and method of preparation to get admission in these programs were explained to students. Students asked queries about Environmental sciences PG programs as well. The students and faculty were extended an invitation by Prof. Sudhir to visit JUIT. Dr. Maneesha thanked Prof. Sudhir for this interaction on career opportunities for their students.



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Bookmarks: A List of CBSE Scho... B & B Institute of Te... CBSE Schools in His... Top 10 CBSE School... New folder READYMADE KURTI Top 10 CBSE School... Top 10 CBSE School...

Meeting Participants:

- Sudhir Kumar
- Priyanshu Sharma
- Vanita Sharma
- Dr Manoesha Kohli
- Sarvjeet negi
- Simran Sharma
- Prikshita Chandra
- Simran Verma
- Priya Jaswal
- Deepti Gupta
- Sanya Dogra has left the meeting
- Pallavi Anand
- Tusharika yash
- Sahil Rana 1130
- You

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A report on  
Academic Institution Visit  
to  
**National Agri-Food Biotechnology Institute**  
Knowledge City, Sector 81, Mohali



On  
12<sup>th</sup> May 2022  
by  
M.Sc & B. Tech 1<sup>st</sup> Year (Biotechnology-Students)

Organized by  
Department of Biotechnology and Bioinformatics  
Jaypee University of Information Technology  
Waknaghat, H.P.



An academic visit was carried out to National Agri-Food Biotechnology Institute (NABI), Sector 81, Mohali on 12<sup>th</sup> May 2022 for M.Sc and B.Tech Biotechnology first year students. The purpose of the visit was to expose students to various research activities undertaken in the premier research institution in government sector, and to give students a chance to interact with scientists and scholars working on cutting-edge biotechnology research. It was also an opportunity for the students to see the latest infrastructure used in the biotechnology sector.

National Agri-Food Biotechnology Institute is the very first food biotechnology institute established by Department of Biotechnology, Government of India. The institute's mandate is to carry out research in agri-food sector and improving nutritional quality through biotechnology research. It is established with an aim to become a center of excellence to provide leadership in agri-food research.

Dr Abhishek Chaudhary and Dr Rahul Shrivastava along with 19 students visited NABI, On reaching the institute, we were received by Dr. Kaushik Majumdar; where we briefed him about the Biotechnology and Bioinformatics program of the JUIT.

Dr. Kaushik Majumdar addressed the students and explained major research themes undertaken by the institute which included agricultural biotechnology, food and nutrition biology, development of high yield crops, genomics and computational biology, and nutraceuticals for better health.

After Dr. Majumdar's address, the students were taken to the instrumentation facility by Mr. Jagdeep Singh, and he showed the students various equipments used in biotechnology research at NABI. Students were shown gas chromatography and liquid chromatography systems and their functions were explained to them. Mr Jagdeep Singh also showed and explained the equipment for high performance thin layer chromatography, scanning electron microscopy facility and particle size separator. Students were then taken for a tour to high performance tissue culture facility. They were shown and explained the purpose of clean air areas fitted with high efficiency particulate air (HEPA) filters and air showers.



We also visited the high-performance computing (HPC) facility in the computational biology laboratory headed by Dr. Srikant Mantri. The whole tour took some two and half hours and students got a feel for biotechnology and bioinformatics research at the institute. Students benefited from getting an opportunity to relate their theoretical knowledge to practical implications.

The BT and BI department extends our gratitude to the Director, NABI for his permission and support to make this visit possible and achieving our objectives for the students. We also extend our gratitude to HOD Sir, Prof. Sudhir Kumar, Dean of Academics Sir, Prof. Ashok Gupta and Vice Chancellor Sir, Prof. R.K Sharma for allowing us to arrange this visit to our student.

Thanks, and Regards,

Dr. Abhishek Chaudhary

Department of Biotechnology and Bioinformatics, JUIT

Coordinator: NABI VISIT



A report on  
Academic Institution Visit to  
Institute of Microbial Technology (IMTECH), Chandigarh  
on 5th May, 2022 of M.Sc (Microbiology) and B. Tech 1st Year  
(Bioinformatics) Students Organized by  
Department of Biotechnology and Bioinformatics,  
Jaypee University of Information Technology (JUIT) Waknaghat, H.P.

An academic visit was carried out to IMTECH, Chandigarh on 5th May 2022 for M.Sc Microbiology and B.Tech Bioinformatics first year students. The purpose of the visit was to expose students to various research activities undertaken in the premier research institution in government sector, and to give students a chance to interact with scientists and scholars working on cutting-edge microbiology, biotechnology and bioinformatics related research. It was also an opportunity for the students to see the latest infrastructure used in the domains of microbiology, biotechnology and bioinformatics. IMTECH is a renowned CSIR institution with an international repute. It is contributing a lot to the fields of research in multiple domains which includes microbial technology, biotechnology and bioinformatics etc.

Dr Tiratha Raj Singh and Dr Gopal Singh Bisht both Associate Professors in the Department of Biotechnology and Bioinformatics, along with 37 students visited IMTECH. On reaching the institute, we were received by Dr. Kailash T. Bhamare; where we briefed him about the Biotechnology and Bioinformatics program of the JUIT. Dr. Kailash addressed the students and explained major research themes undertaken by the institute which included microbial technology and bioinformatics. After Dr. Kailash's briefings about the institute, the students were taken to a detailed tour of the institution. Students were shown all the experimental and computational facilities available in the institute at various research labs and central facilities. Last visit of the day was in the Virology and Bioinformatics lab of Dr. Manoj Kumar. Students enjoyed the facilities available at the institution and learned so many new and interesting things during this

visit. The whole tour took more than 4 hours and students got a feel for microbiology, biotechnology and bioinformatics research at the institute. Students benefited from getting an opportunity to relate their theoretical knowledge to practical implications. The BT and BI department extends our gratitude to the Director, IMTECH for his permission and support to make this visit possible and achieving our objectives for the students. Special thanks to host Dr. Manoj Kumar and Dr. Kailash for their wonderful hospitality during the visit. We also extend our gratitude to HOD Prof. Sudhir Kumar, Dean of Academics and Research, JUIT Prof. Ashok Gupta and Vice Chancellor, JUIT Prof. R.K Sharma for allowing us to arrange this interesting visit to our students for their academic and research based growth and opportunities.

***Dr. Tiratha Raj Singh***  
***Faculty Coordinator Outreach and this Visit***  
***Department of Biotechnology and Bioinformatics,***  
***JUIT***

### Some snaps from the visit











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## **Dayanand Adarsh Vidyalaya Kandaghat visited Jaypee University of Information Technology, Wagnaghat.**

An exposure visit for the students of class 10<sup>th</sup> from Dayanand Adarsh Vidyalaya Kandaghat was organized on 26<sup>th</sup> April 2022 to Jaypee University of Information Technology, Wagnaghat. Principal Mrs. Suman Sood along with coordinator Mrs. Meera Sharma and class teacher Mr. Rajesh Thakur visited JUIT with 38 no. of students. HoD Prof. Sudhir Syal arranged all the visits to the JUIT campus. Dr. Hemant Sood, Dr. Poonam Sharma, and Baleshear Prasad coordinated their visit first to LRC and then to all the laboratories of the BT and BI, and CSE departments. Mr. Pramod and Mrs. Jyotsana coordinated the visit to ECE Department. Faculty Mr. Rohan arranged their visit to CE Department. Dr. Hemant provides counseling to the students regarding different future aspects and prospects in Medical and Non- medical sciences. These visits provide awareness about a variety of fields in science and engineering and make the students capable of decision-making for their careers. These visits are a continuous feature of the Jaypee University under their Education and Public Outreach Program. School principal extended gratitude to JUIT administration and the Department of BT and BI for their facilitation and kind support





## **Outreach Activities and Career Counseling Programme**

**Jawaharlal Navodaya Vidyalaya, Kunihar, H. P.**

**On**

**April 25, 2022**

An outreach and career counseling activity for school students was carried out by Jaypee University of Information Technology Waknaghat on April 25, 2022. The Department of Electronics and Communication Engineering, Civil Engineering and Biotechnology and Bio-informatics have participated in this activity. Dr. Nafis U Khan and Mr. Abhishek Ray from Department of Electronics and Communication Engineering, Mr. Rohan Singhal and Mr. Jaswindar Singh from Department of Civil Engineering and Dr. Saurabh Bansal from Department of Biotechnology and Bio-informatics visited Jawaharlal Navodaya Vidyalaya, Kunihar, H. P. for guiding the students for their future education and career plan.

### **Photographs**







### **Outreach activity at MDN Public School, Rohtak, Haryana – 01 April, 2022**

Prof. Sudhir Kumar had an online outreach activity session with 15 medical stream students of MDN Public School, Rohtak, Haryana on 01 April, 2022. The head of the science department Ms. Neeru Walia and coordinator Mr. Abhishek from school also joined the session. Prof. Sudhir explained the scope of Biotechnology and Bioinformatics. Students were counselled about the significance of Industrial, medical, agricultural, computational and other offshoots of these fields. The scope of B. Tech. Biotechnology/Bioinformatics and eligibility to join the course was also explained to them. Students and faculty were invited to visit JUIT for offline laboratory sessions. The outreach activity ended with a note of thanks by school authorities to JUIT.

A  
REPORT ON  
EXPERT VISIT  
TO  
**Jaypee University of Information Technology**  
Waknaghat-Solan (H.P)-173234



**ON 24<sup>th</sup> March 2022**

ORGANIZED BY  
Department of Biotechnology and Bioinformatics  
JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY-  
WAKNAGHAT



## **(JUIT -HORIBA Researcher Experience)**

### **Expert: Profile – Dr. Rajeev Gautam**

Corporate Officer, HORIBA, Ltd., Japan

President, HORIBA India Pvt. Ltd.

- Dr. Rajeev Gautam is currently heading HORIBA India Private Limited, headquartered in New Delhi. He has a successful and proven track record in managing the sales, strategy and related business operations of HORIBA group in India and SAARC with significant contributions to business in other parts of the world.
- Dr. Gautam, an alumnus of the Indian Institute of Technology (IIT) Roorkee, has led many senior managerial positions at renowned business organizations including Cadila Pharmaceuticals, Ranbaxy Laboratories and Bremer Pharma.
- HORIBA Group is a technology leader. HORIBA India, with a current turnover of over 6 B.JPY, and an employee strength of 500+ people, has seen significant growth under the dynamic leadership of Dr. Rajeev Gautam in the last decade. HORIBA spread its business operations of Automotive, Medical, Process and Environmental, Semiconductors and Scientific segment from India to SAARC nations as a part of the vision of Dr. Gautam to enhance HORIBA footprints in these regions and serve the society with the advanced scientific techniques from HORIBA.
- Dr. Gautam's vision has helped HORIBA to gain good market share, customer delight and drive revenues and profitability for the company. He is sensitive to matters of the people and strongly believes that 'people work for people'. He is a productivity driver in the organization and is a people's man.
- The CSR support by HORIBA India including the self-help programs for underprivileged children, weaker sections of the society and helpless women to make them self-dependent symbolize Dr. Gautam's accountability to work for the betterment of the society.
- Rajeev Gautam is a passionate human-environment wellness enthusiast and has been participating in the CSR activities such as tree plantation, etc. for environmental sustainability.
- He is a recipient of several awards including the '[Most Influential Leader in MedTech-2021](#)' and the '[Top Torchbearer of Healthcare-2021](#)' (page 36) presented by Medgate today, the '[The Leader Behind an Admirable Company to Watch in 2020](#)', by Innovative Zone, the 'Diagnostic Icon during COVID19 Pandemic' in Healthcare Crusaders Award 2020, Strategy Visionary Leader-2019 by Transformance, 'Leadership Icon of the year 2018' by USB Forums, 'Great Managers Awards' by Economic Times in the Senior Leaders Category in 2017, etc. to name a few for his dynamic leadership, decision-making abilities, and visionary business insights.

- Dr. Gautam visited the campus of JUIT and research facility in the department of Biotechnology and Biouinformatics he was very impressed with research and study environment here.
- Dr. Gautam interacted with faculty member, PhD scholars and discuss their field of interest, he appreciate the research work running by faculty in the department of BT&BI and ECE.
- Dr. Gautam motivates the faculty member to start collaborative research with industries partner. He was very positive for Horriba –JUIT collaborative research
- We have discussed the possibility of student training/internship at HORRIBA in near future. Dr. Gautam was very positive to setup a instrumental facility at JUIT.
- After meeting, Dr. Gautam was very positive for more and more meeting or visit in JUIT in near future.



Thanks & Regards

Dr. Abhishek

Department-Industries Relation Officer

Dr. Sudhir Kumar (HOD)

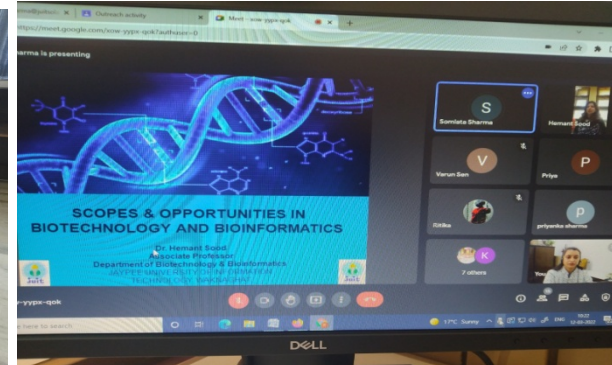
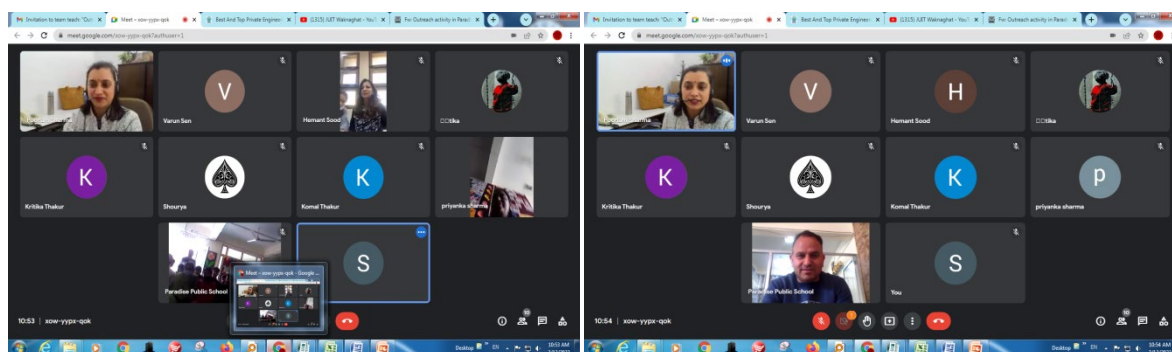
Department of Biotechnology and Bioinformatics

Jaypee University of Information Technology

Solan-H.P

## Paradise Public Senior Secondary School, Sunder Nagar

On 12<sup>th</sup> March 2022, Dr Poonam Sharma and Dr Hemant Sood perform outreach activity in online mode in Paradise Public Senior Secondary School, Sunder Nagar. Activity was started with brief introduction given by Dr. Poonam followed by showing videos of JUIT and Departmental labs by Ms. Somlata and further Lecture on “Scope of BT/BI for school students” was delivered by Dr. Hemant where the students have been informed about the scope of Biotechnology and bioinformatics. The role of these sciences in research and development along with our day to day lives. We have interacted with teachers and 25 students of higher secondary section of the school. The students were shown with future prospects and many career options in these streams of sciences. We are very thankful to Mr Prakash Chand, Principal of the school and Mrs. Priyanka Sharma, faculty for their support for organizing this activity.





## Outreach activity:

### Career in Biotechnology & Bioinformatics

Mrs. M. Lakshmi

Assistant Vice Principal

PGT - Biotechnology

Sri Sankara Sr Sec School

Adyar

Chennai - 20

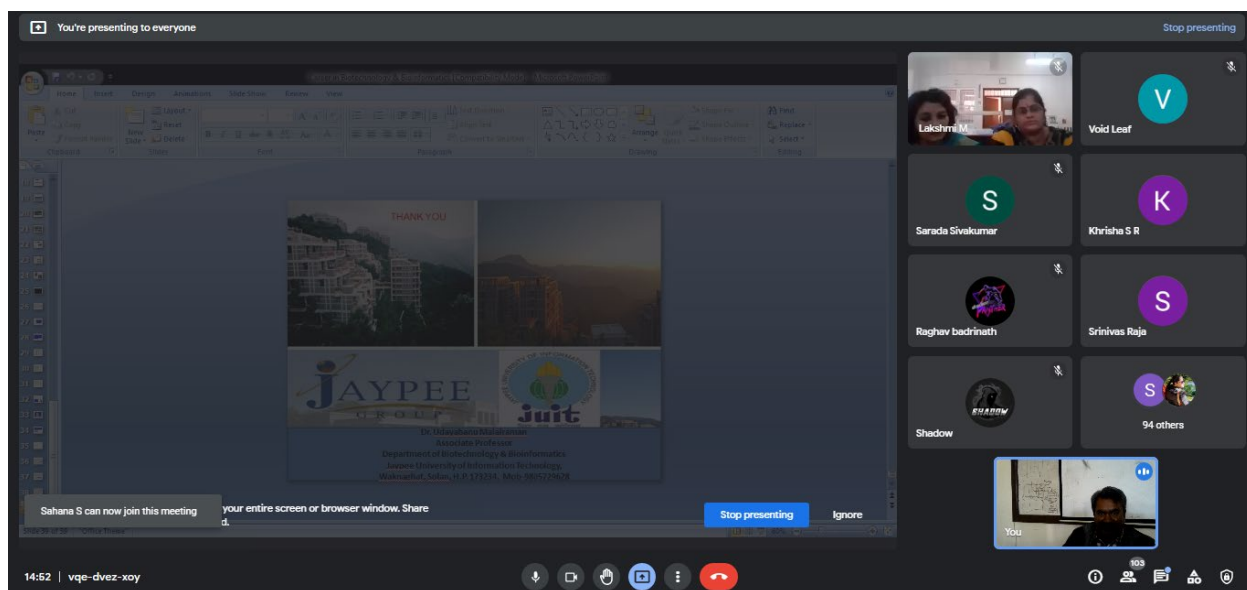
Ph. 97890 36380

Date: 08 March 2022 Time: 2:00 P.M. – 3:00 P.M.

Dr. Udayabanu, M. & Dr. Garlapati Vijay Kumar

Approximately 150 Participants.

The interaction involved brief discussion about the Scope and Opportunities in the field of Biotechnology & Bioinformatics. Basic introduction to Biotechnology & Bioinformatics, what are the applications of Biotechnology in Industry/Agriculture and daily used products. Further, a brief overview of the research institutes in India where there is scope for Biotechnologists/Bioinformaticians and show case of Department of Biotechnology & Bioinformatics and other courses offered by Jaypee University of Information technology.



## Visit of GSSSS Boys Nahan and GSSS Burma Papri to CSE/IT Department

Dr. Ekta Gandotra has coordinated the visit of the students of two schools i.e. GSSSS Boys Nahan and GSSS Burma Papri to CSE/IT department, JUIT, Wagnaghat, H.P. on Wednesday, 9<sup>th</sup> March, 2022. There were 93 students (41 from GSSSS Boys Nahan and 52 from GSSS Burma Papri) and 2 teachers. Dr. Ekta Gandotra spoke about the career opportunities available to them after completing a B.Tech in CSE/IT. She gave a presentation on **Information Technology and its Applications in a various domains**. They were made to visit the various labs of the department. A hands-on session was also conducted by Mr. Mohan Sharma, Mr. Ravi Raina and Dr. Ekta Gandotra to appraise the students about the basic but very important softwares and commands.

### Glimpses of the visit



## Visit of JNV Solan Girl Students under Vigyan Jyoti Programme

As a part of Vigyan Jyoti Programme (an initiative launched by the Department of Science & Technology (DST)), the girl students of class 10 to 12 from JNV Solan visited JUIT, Waknaghat on Monday, 7<sup>th</sup> March, 2022. 100 students along with 5 teachers reached the campus at around 10:30 AM. Dr. Ekta Gandotra, Zonal Officer, Vigyan Jyoti Programme, spoke about career opportunities available to them. They were then split into two groups and taken to several JUIT departments, including Computer Science & Engineering and Information Technology, Biotechnology/Bioinformatics, Civil, Electronics and Communication, and Physics department.



They went to the Computer Science & Engineering and Information Technology departments' labs to learn about the softwares and projects that JUIT students are working on. They were also taken to JUIT's Technology Incubation and Entrepreneurship Development Cell (TIEDC), where they were inspired by Dr. Deepak Gupta about start-ups and entrepreneurship.





Dr. Hemant Sood coordinated the visit of students to the department of Biotechnology and Bioinformatics. They visited the departmental laboratories where they were informed about different biotechnological techniques and instruments along with facilities used for academic and research projects. The students had received an overview of Biotechnological and Bioinformatics aspects like Plant biotechnology, Microbiology, molecular techniques including PCR etc.



Lunch was served to all students and teachers at JUIT's Annapurna (Mess). They also enjoyed a round of the entire campus after lunch.



Mr. Chandrapal Gautam coordinated the visit of students to the Civil department. They were made to visit the Concrete lab, Highway lab, Environment lab, Workshop Lab, Mechanics & Survey Lab, Fluid Lab and CAD lab. They were also given live demonstrations of a few lab tests of the Concrete and Environment Engineering labs.



The visit to the Electronics and Communication Engineering department was organised by Ms. Pragya Gupta. The students were made to visit the labs where they were given the brief idea about the recent technologies being used in the field of Electronics. They were acquainted with the future scope of Electronics and Communication Engineering to motivate them to pursue their career in this area.





Visit to Physics lab was coordinated by Dr. Sanjeev Tiwari where he demonstrated the following experiments to the students.

- Diffraction of laser light from sharp edge of blade.
- Diffraction from human hair
- Diffraction from DVD



Around 4:45 p.m., the students joyfully exited the campus.





## **Outreach activity - GSSS, Chhota Shimla**

**Friday, 4th March, 2022**

Around 130 students with six faculty members of GSSS Chhota Shimla have visited the Department of ECE, JUIT Solan on March 04, 2022 (Friday). We have divided the students into two batches. Different ECE laboratories were visited and explained the role of Electronics, Communication, IoT, Embedded systems, Robotics, etc in our daily life.

Later, we have given the demo of projects related to IoT and Robotics to the students. All students were enthusiastic and appraised.

Event was coordinated by Dr. Shruti, Dr. Harsh, Mr. Munish, Mr. Pardeep Garg, Mr. Pramod, Mr. Dharendra, and Mr. Abhishek.

















**Report of the celebration of National Science Day through National Science Day Symposium (NSDS) during Feb 2022, sponsored by HIMCOSTE**

**Jaypee University of Information Technology celebrated  
National Science Day (NSD) - 2022 with hundreds of School  
and College Students**

National Science Day Symposium (NSDS) was organized on the occasion of National Science Day -2022 on 28-02-2022. This event is planned and executed by Jaypee University of Information Technology, Wagnaghat, Solan with the financial support from HIMCOSTE, Government of Himachal Pradesh and catalyzed by Department of Science and Technology (DST), Government of India. The theme of this year's national Science day is "Integrated approach of science and technology for a sustainable future".

On this festival of Science, Jaypee University of information Technology, Wagnaghat, Solan has organized some events for the students in various schools in offline as well as online mode. In these events students participated enthusiastically. Offline quiz competitions were organized in some schools of Himachal Pradesh. Poster competition was open to all the students even for out of state students. We have received high quality posters from the students. Winners in quiz and poster competitions were announced during the event. In NSDS-2022 we have received more than 530 registrations from all over India. Entries

were received from H.P., Punjab, Haryana, Delhi, Uttar Pradesh, Chandigarh, Rajasthan, Jharkhand, J&K, Uttarakhand, Madhya Pradesh, Telangana, Karnataka, Tamilnadu, Maharashtra, and West-Bengal.

Hon'ble Vice Chancellor Professor Rajendra Kumar Sharma inaugurated the event. Dean (Academic and Research) Prof. A.K. Gupta also gave the speech to



## **Report of the celebration of National Science Day through National Science Day Symposium (NSDS) during Feb 2022, sponsored by HIMCOSTE**

emphasize the importance of science. Heads of the department, faculty and staff members along with students of JUIT were present in this online event. School teachers and students from various schools of Himachal Pradesh and other parts were also enjoyed this very interactive event. Several college and University faculty members and students along with industry persons also joined this event. Dr. Tiratha Raj Singh initiated the event with all the information about the activities. Dr. Sunil Kumar Khah and Dr. Bhupendra Pathak announced the prizes for quiz and poster competitions respectively. Invited talks were given by eminent women scientists Prof. Krishna Mishra and Dr. Diksha Painuly. Prof. Mishra is from IIIT, Allahabad, Prayagraj, U.P. Dr. Diksha is from HLL, Thiruvananthapuram, Kerala. Both the speakers gave application based expansion of science and technology in real world situations. Everyone enjoyed these talks. Hon'ble VC sir motivated the students for science and technology. Finally event was concluded with a vote of thanks by Dr. Ragini Raj Singh. Program was conducted by Ms. Janki Insaan and Ms. Tiyaasha De.

Report of the celebration of National Science Day through National Science Day Symposium (NSDS) during Feb 2022, sponsored by HIMCOSTE

National Science Day Symposium (NSDS-2022)

in the honour of

**Sir C. V. Raman**  
*Nobel Laureate & Bharat Ratna*



Treat me right and you will see the light...



**Jaypee University of Information Technology (JUIT)**  
in association with  
**HIMCOSTE, Govt. of H. P.**  
is celebrating  
**National Science Day through NSDS-22 on**  
**28-Feb-2022**

**Convener**  
Dr. Tiratha Raj Singh

**Co-conveners**  
Dr. Bhupendra K. Pathak  
Dr. Ragini Raj Singh

**Technical Support**  
Mrs. Somlata Sharma and CEHTI

**Students Team**  
Mr. Rohit Shukla  
Ms. Tiyaasha De  
Ms. Janki Insan

**Head of the Departments**  
Prof. P. B. Barman  
Physics and Materials Science  
Prof. Karanjeet Singh  
Mathematics  
Prof. Sudhir Kumar  
Biotechnology and Bioinformatics

**Last date of registration:**  
**22/02/2022**  
**Contact Nos. :**  
**9625643296, 8091004695**  
**E-mail:**  
**nmsd@juitsolan.in**

**For Registration Click Here:**  
<https://forms.gle/di1RzFcaze5pxgkM9>

**Events**

- ⇒ Online popular lectures for school/college students.
- ⇒ Quiz competition
- ⇒ Online poster competition on Science (School students: Class 9-12).

**Prizes & Awards\*:**  
First Prize: Rs. 5000/-  
Second Prize: Rs. 2000/-  
Third Prize: Rs. 1000/-  
Certificates will be given to all the Participants

\*Separate Prizes for Quiz and Poster Competitions

**Speakers**

**Popular Talk**

**Prof. Krishna Misra, FNASc**  
Deptt. of Applied Sciences,  
IIIT Allahabad, Prayagraj,  
India  
Topic: "Why Study Science: Challenges and Fascinations"

**Industry Talk**

**Dr. Diksha Painuly**  
Scientist E3,  
HLL Lifecare Ltd.  
(Govt. of India Enterprise)  
Thiruvananthapuram, Kerala  
Topic: "Role of Science in Industry"

Jaypee University of Information Technology, Wanknaghat, Solan, HP, India

**Report of the celebration of National Science Day through National Science Day Symposium (NSDS) during Feb 2022, sponsored by HIMCOSTE**

**Interaction with the Students at: Chapslee School, Shimla**





**Report of the celebration of National Science Day through National Science Day Symposium (NSDS) during Feb 2022, sponsored by HIMCOSTE**

**Interaction with the Students at: GSSS, Kandaghat, Solan**



**Report of the celebration of National Science Day through National Science Day Symposium (NSDS) during Feb 2022, sponsored by HIMCOSTE**

**JUIT Team Visited: JPGS, Ramala, UP**



**Report of the celebration of National Science Day through National Science Day Symposium (NSDS) during Feb 2022, sponsored by HIMCOSTE**

**Offline Quiz Organized at: GSSS Panjgain, Bilaspur**





**Report of the celebration of National Science Day through National Science Day Symposium (NSDS) during Feb 2022, sponsored by HIMCOSTE**

**Offline Quiz Organized at: GSSS Barmana, Bilaspur**



**Report of the celebration of National Science Day through National Science Day Symposium (NSDS) during Feb 2022, sponsored by HIMCOSTE**



**Posters Submitted by School Students**

**Theme of the poster competition**

**Integrated Approach in Science and Technology For A Sustainable Future**



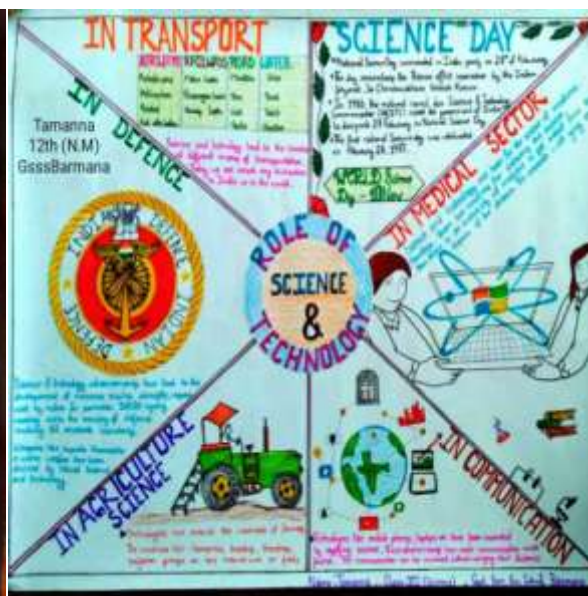
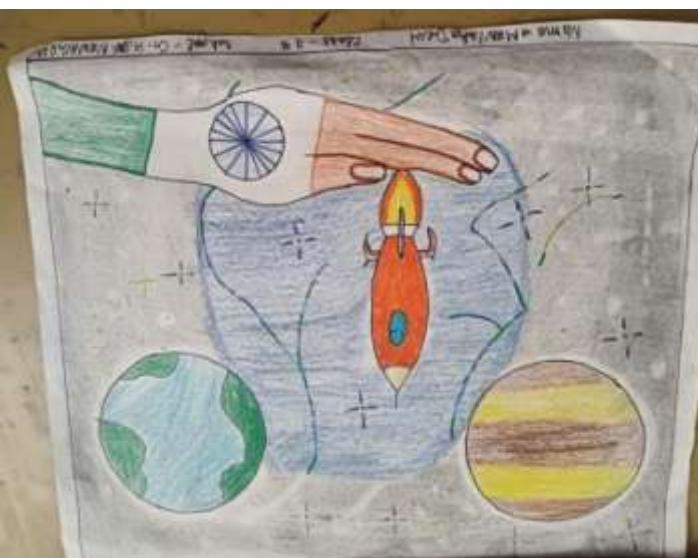


Report of the celebration of National Science Day through National Science Day Symposium (NSDS) during Feb 2022, sponsored by HIMCOSTE





## Report of the celebration of National Science Day through National Science Day Symposium (NSDS) during Feb 2022, sponsored by HIMCOSTE



**Report of the celebration of National Science Day through National Science Day Symposium (NSDS) during Feb 2022, sponsored by HIMCOSTE**



28- February-2022

**National Science Day -2022**

**Declaration of the results of the quiz conducted in the offline mode**

The committee members have decided the winners for the quiz conducted in the offline mode as per the following details:

**1. First position:**

**Mr. Aditya Thakur,**  
Class-XI, Government Senior Secondary School,  
Barmana, Bilaspur, Himachal Pradesh  
Email Id: [adityathakur2122005@gmail.com](mailto:adityathakur2122005@gmail.com)

**2. Second position:**

**Mr. Nitin Yog**  
Class-XIIA, Chapslee School, Esylum Hills,  
Lakkar Bazar, Shimla, Himachal Pradesh  
Email Id: [nitinyog9@gmail.com](mailto:nitinyog9@gmail.com)

## Report of the celebration of National Science Day through National Science Day Symposium (NSDS) during Feb 2022, sponsored by HIMCOSTE

**3. Third position:** (Tied between two participants)

**First Participant :** **Ms. Suman Kumari**  
Class-XII, Government Senior Secondary School,  
Kandaghat, Solan, Himachal Pradesh  
Email Id: [sumankumari21aug200@gmail.com](mailto:sumankumari21aug200@gmail.com)

**Second Participant :** **Ms. Shivani**  
Class-XII, Government Senior Secondary School,  
Panjgain, Bilaspur, Himachal Pradesh  
Email Id: [kaushalmonika15886@gmail.com](mailto:kaushalmonika15886@gmail.com)



**Report of the celebration of National Science Day through National Science Day Symposium (NSDS) during Feb 2022, sponsored by HIMCOSTE**



28- February-2022

**National Science Day -2022**  
**Declaration of the results of the poster competition conducted in an online mode**

## Report of the celebration of National Science Day through National Science Day Symposium (NSDS) during Feb 2022, sponsored by HIMCOSTE

The committee members have decided the winners for the poster competition conducted in an online mode as per the following details:

**1. First position:** **Ms. Kanchan Sharma,**  
Class-XII, Government Senior Secondary School,  
Berthin, Bilaspur, Himachal Pradesh  
Email Id: [indud941@gmail.com](mailto:indud941@gmail.com)

**2. Second position:** (Tied between two participants)

**First Participant :** **Ms. Divyam Bhardwaj**  
Class-IX, Shiva International School,  
Ghumarvin, Bilaspur, Himachal Pradesh  
Email Id: [bhartendubhardwaj75@gmail.com](mailto:bhartendubhardwaj75@gmail.com)

**Second Participant :** **Ms. Harpreet Kaur**  
Class-IX, Govt. High School, Nawagram  
Solan, Himachal Pradesh  
Email Id: [ghsnawangram10@gmail.com](mailto:ghsnawangram10@gmail.com)

**3. Third position:** (Tied between two participants)

**First Participant :** **Mr. Mahesh Kumar**  
Class-XII, Government Model Senior Secondary School,  
Lalpaani, Shimla, Himachal Pradesh  
Email Id: [nirjalad84@gmail.com](mailto:nirjalad84@gmail.com)

**Second Participant:** **Ms. Tamanna**  
Class-XII, Government Senior Secondary School,  
Barmana, Bilaspur, Himachal Pradesh  
Email Id: [sharmaanju221@gmail.com](mailto:sharmaanju221@gmail.com)

**Report of the celebration of National Science Day through National Science Day Symposium (NSDS) during Feb 2022, sponsored by HIMCOSTE**



**Technical Program for National Science Day Symposium (NSDS) on**  
**February 22, 2022**



## Report of the celebration of National Science Day through National Science Day Symposium (NSDS) during Feb 2022, sponsored by HIMCOSTE



**Jaypee University of Information Technology (JUIT)**

**National Science Day Symposium (NSDS) 2022**

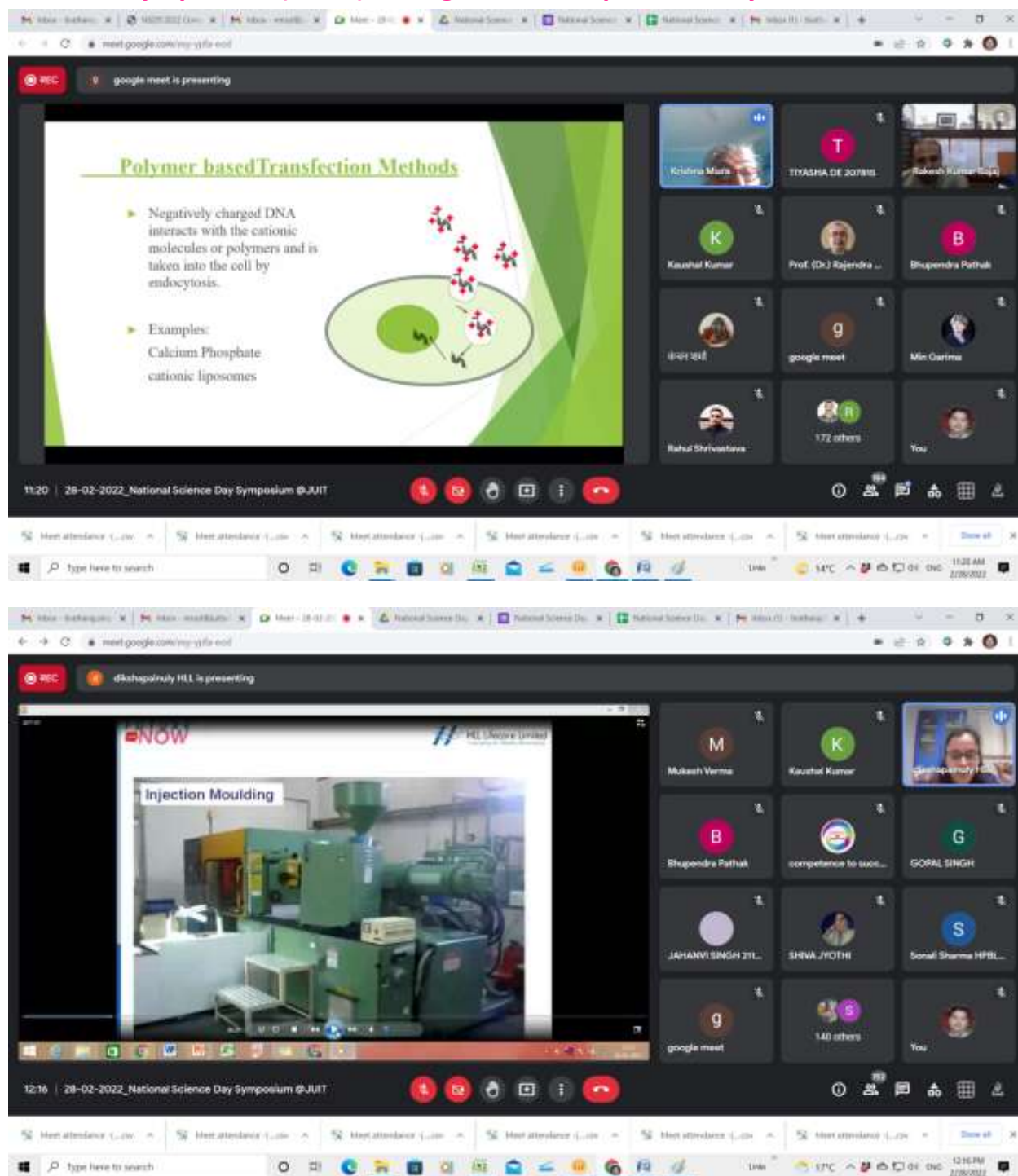
**February 28, 2022**

**Detailed Schedule**

S. No.	Time (IST)	Event	Involvement
1	9:30 AM	Online joining of Schools/Colleges/ Universities teachers and students	Team NSDS-2022
2	10:00 AM	Welcome and Saraswati Vandana	Ms. Tiyyasha, Ms. Janki, and Ms. Meghana
3	10:10 AM	Address by Convener	Dr. Tiratha Raj Singh
4	10:15 AM	Media Presentation for various activities organized for NSD-2022	Team NSDS-2022
5	10:25 AM	Address by Dean (A&R) Sir	Prof. A.K. Gupta
6	10:30 AM	Address by Hon'ble VC Sir	Prof. R.K. Sharma
7	10:45 AM	Invited Talk by Prof. Krishna Mishra, IIIT Allahabad, Prayagraj, U.P.	Speaker
8	11:30 AM	Invited Talk by Dr. Diksha Painuly, HLL, Thiruvananthapuram, Kerala	Speaker
9	12:15 AM	Announcements of Poster winners	Dr. Bhupendra Kumar Pathak
10	12:20 PM	Announcements of Quiz winners	Prof. Sunil Kumar Khah
11	12:25 PM	Concluding Remarks & Feedback from the participants	Hon'ble VC Sir
12	12:40 PM	Vote of Thanks	Dr. Ragini Raj Singh

[Snapshots from the NSDS online event](#)

## Report of the celebration of National Science Day through National Science Day Symposium (NSDS) during Feb 2022, sponsored by HIMCOSTE



### News Clippings from the NSDS event


punjabtimeslive


Punjab Times

An English Daily Newspaper

# Khalsa College Patiala organizes a Science workshop on the occasion of National Science Day

Punjab Times News  
Patiala, February 20

BioTech Society, Department of Biotechnology and IQAC of Khalsa College Patiala organized a Science workshop on the occasion of National Science Day in collaboration with Department of Biotechnology and Bioinformatics, Jaypee University of Information Technology, Waknaghat, Solan in Khalsa College Patiala. The workshop was arranged for students to enhance their knowledge in the field of biotechnology. A total of 40 students along with faculty of the department participated in the workshop. In her welcome

address, Dr. Nipunj Kaur, Head, Department of Biotechnology told about the importance of such workshops in current scenario.

Dr. Chaminder Singh Usha, Principal, Khalsa College Patiala encouraged students regarding participation in the workshop and highlighted

the importance of scientific temperament among students. Dr. Sudhir Kumar, Professor and Head, Department of

Biotechnology, Jaypee University of Information Technology, presented the applications of Biotechnology in various fields. He also explained students about the scope of biotechnology and various scholarship programs for further studies. Thereafter, Dr. Sudhir Kumar along with their faculty members Dr. Hemant Sood, Dr. Jata Shrivastava, Sateeshwar Shrivastava (Laboratory staff), PhD Scholars Monika, and Sangeeta Kaur gave technical sessions in which students were given hands on experiences on various techniques of biotechnology. Dr. Sudhir Kumar enlightened students about microbiological techniques to identify different

types of cultures without using microscope in a very easy and effective manner. Dr. Hemant Sood, clarified students about techniques of tissue culture technology to propagate plants in artificial conditions in labs. Dr. Jata Shrivastava explained students about PCR technique to amplify DNA for process of cloning and genetic testing kits for identification of unknown organisms. The PhD Scholars demonstrated the techniques explained by Dr. Jata Shrivastava to the students and clarified their concepts about practical experience. Dr. Nipunj Kaur, Head, Department of Biotechnology fortified students on their participation in the workshop.

English Edition

Mar 1, 2022 Page No. 3

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**Report of the celebration of National Science Day through National Science Day Symposium (NSDS) during Feb 2022, sponsored by HIMCOSTE**

## राष्ट्रीय विज्ञान दिवस संगोष्ठी का आयोजन

नई दिल्ली, 28 फरवरी (संवाद): राष्ट्रीय विज्ञान दिवस-2022 के अवसर पर 28 फरवरी को राष्ट्रीय विज्ञान दिवस संगोष्ठी (एनएसडीएस) का आयोजन किया गया। इस कार्यक्रम को योजना और क्रियान्वयन जेपी यूनिवर्सिटी ऑफ इंफॉर्मेशन टेक्नोलॉजी, गान्धिनगर, मोहन प्रसाद हिमकोस्टे, हिमाचल प्रदेश सरकार की विशेष सहायता से किया गया है और विज्ञान और प्रौद्योगिकी विभाग (टीएसटी), भारत सरकार द्वारा उत्प्रेरित किया गया है। इस वर्ष के राष्ट्रीय विज्ञान दिवस का विषय स्थायी भविष्य के लिए विज्ञान और प्रौद्योगिकी का एकलवृक्ष वृक्षारोपण है।

विज्ञान के इस पर्व पर जेपी यूनिवर्सिटी ऑफ इंफॉर्मेशन टेक्नोलॉजी, गान्धिनगर, मोहन ने विभिन्न स्कूलों में छात्रों के लिए ऑफलाइन के साथ-साथ ऑनलाइन मोड में भी कुछ कार्यक्रम आयोजित किए हैं। इन अवसरों में विद्यार्थियों ने उत्साहपूर्वक भाग लिया। हिमाचल प्रदेश के कुछ स्कूलों में

## स्कूला ने उतारी प्रीमियम से

नई दिल्ली, 28 फरवरी (एनडीए) - महान कंपनी स्कूला ऑटो इंडिया ने अपनी पूरी तरह नई स्लाबिका बर बाजार में उतारी है। इसकी शुरुआती शुरुआत कीमत 10.69 लाख से 10.69 लाख रुपए है। प्रीमियम मिड-साइज सेडान कंपनी में पेश किए मॉडल को स्कूला 3 संस्करणों... एक्टिव, एक्टिव और स्टायल में लेकर आई है। एक लीटर टी एस आई, पैट्रोल इंजन वाली इस सेडान की 6 स्पीड वाला मैनुअल गियरबॉक्स होगा। इसके अलावा इस मॉडल के एक्टिव एव स्टायल

### बरमाणा स्कूल में विज्ञान प्रश्नोत्तरी का आयोजन

**बिलासपुर।** राजकीय माध्यमिक पाठशाला बरमाणा में मनाया गया राष्ट्रीय विज्ञान दिवस के उपलक्ष्य में विज्ञान प्रश्नोत्तरी का आयोजन किया गया। जिसमें ग्यारहवीं व बाहरवीं के छात्रों ने भाग लिया। इस मौके पर विशेष तौर पर आमंत्रित जेपी यूनिवर्सिटी से प्रोफेसर डॉ. अनिल कांत ठाकुर व असिस्टेंट प्रोफेसर डॉ. हर्ष ने छात्रों को सम्बोधित कर विज्ञान के बारे बताया गया। उन्होंने बताया कि हर साल 28 फरवरी को सर सीवी रमन की याद में राष्ट्रीय विज्ञान दिवस विज्ञान को लोकप्रिय बनाने के लिए मनाया जाता है। रमन पहले एशियाई थे जिन्हें 1930 में विज्ञान के क्षेत्र में कार्य करने लिए नोबेल पुरस्कार दिया गया था। इस मौके पर अनिल कांत ने बताया किस तरह से आज तक विभिन्न आपदाओं, बीमारियों व समस्याओं से विज्ञान के कारण बचाया जा सका है और आने वाले खतरों जैसे ग्लोबल वार्मिंग, वातावरण में आने वाले बदलाव, ऊर्जा में लगातार हो रही कमी ऐसे विज्ञान कैसे लड़कर सुलझा रहा है। डॉ. अनिल कांत ने छात्रों को बाहरवीं के बाद अपने करियर का चुनाव कैसे करना है, विस्तार पूर्वक बताया। इस मौके पर स्थानीय पाठशाला के प्रधानाचार्य धनी राम सांख्यान, नीलम ठाकुर, प्रवक्ता रासायन विज्ञान, नरेश ठाकुर, प्रवक्ता भौतिक विज्ञान, वासुदेव शर्मा प्रवक्ता जीव विज्ञान, सरोज शर्मा प्रवक्ता गणित जय लाल टीजीटी विज्ञान उपस्थित रहे।



## स्कूल में विज्ञान प्रश्नोत्तरी का आयोजन पटार

बिलासपुर/कश्मीर ठाकुर

राजकीय माध्यमिक पाठशाला बरमाणा में मनाया गया राष्ट्रीय विज्ञान दिवस के उपलक्ष्य में विज्ञान प्रश्नोत्तरी का आयोजन किया गया। जिसमें ग्यारहवीं व बाहरवीं के छात्रों ने भाग लिया। इस मौके पर विशेष तौर पर आमंत्रित जेपी यूनिवर्सिटी से प्रोफेसर डॉ. अनिल कांत ठाकुर व असिस्टेंट प्रोफेसर डॉ. हर्ष ने छात्रों को सम्बोधित कर विज्ञान के बारे बताया गया। उन्होंने बताया कि हर साल 28 फरवरी को सर सीवी रमन की याद में राष्ट्रीय विज्ञान दिवस विज्ञान को लोकप्रिय बनाने के लिए मनाया जाता है। रमन पहले एशियाई थे, जिन्हें 1930 में विज्ञान के क्षेत्र में कार्य करने लिए



नोबेल पुरस्कार दिया गया था। इस मौके पर अनिल कांत ने बताया किस तरह से आज तक विभिन्न आपदाओं, बीमारियों व समस्याओं से विज्ञान के कारण बचाया जा सका है और आने वाले खतरों जैसे ग्लोबल वार्मिंग, वातावरण में आने वाले बदलाव, ऊर्जा में लगातार हो रही कमी ऐसे विज्ञान

कैसे लड़कर सुलझा रहा है। डॉ. अनिल कांत ने छात्रों को बाहरवीं के बाद अपने करियर का चुनाव कैसे करना है, विस्तार पूर्वक बताया। इस मौके पर स्थानीय पाठशाला के प्रधानाचार्य धनी राम सांख्यान, नीलम ठाकुर, प्रवक्ता रासायन विज्ञान, सहित आदि उपस्थित थे।

ऊना/राजन  
जिला ऊना  
उद्योगिक क्षेत्र  
उद्योग को  
वाली जानव  
है। पुख्ता  
उद्योग को ले  
विंडो की क  
इसी के अ  
उद्योगपति ने  
भी ली थी।  
है कि यो उ  
विंडो के सा  
वर्ष कैसे ज  
उतरा। इसक  
नहीं ली।  
अपनी जिम्

Report of the celebration of National Science Day through National Science Day  
Symposium (NSDS) during Feb 2022, sponsored by HIMCOSTE

Closing of the Event for a New Beginning



In continuation.....



**Outreach Activities and Career Counseling Programme**  
**Growell Public School Bagpat, U. P., Jai Parvati School Bagpat, U. P.**  
**& Lakshya Public School, Barut, U. P.**

**On**

**February 22 – 23, 2022**

An outreach and career counseling activity for school students was carried out by Jaypee University of Information Technology Waknaghat during February 22 – 23, 2022. The Department of Electronics and Communication Engineering, Civil Engineering and Biotechnology and Bio-informatics have participated in this activity. Dr. Nafis U Khan and Mr. D. K. Tripathi from Department of Electronics and Communication Engineering, Mr. Rohan Singhal and Mr. Amar Kumar from Department of Civil Engineering and Dr. Abhishek Chaudhary from Department of Biotechnology and Bio-informatics visited Growell School, Bagpat, Jai Parvati School Bagpat and Lakshya School, Barut. They all interacted with students and guide them for their future education and career plan.

**Photographs**





### **Outreach activity - Govt. PG College Sector-1 Panchkula, Haryana**

Dr. Sudhir Kumar, Professor and Head, Department of Biotechnology and Bioinformatics conducted online Career Counselling session of B.Sc. students through virtual mode in Govt. PG College Sector-1 Panchkula, Haryana on 09-02-2022 (9:30 to 11:00am IST). Dr. Sudhir elaborated GAT-B program of DBT, Government of India and sponsored seats with Jaypee University of Information & Technology Waknaghat for admitting students in MSc Biotechnology. He explained the procedure of selection, test, fellowship and fee for GAT-B qualified students. He also explained about DBT Skill Vigyan Programme for Quality Control Biologist and Lab. Technician trades. He further elaborated the procedure of selection and fellowship for B.Sc. passed students for these courses, respectively. He also explained about the opportunities and careers in management, armed forces, competitive examinations, law. The faculty incharge Dr. Rashmi of college proposed the offline tour of faculty/students to JUIT.

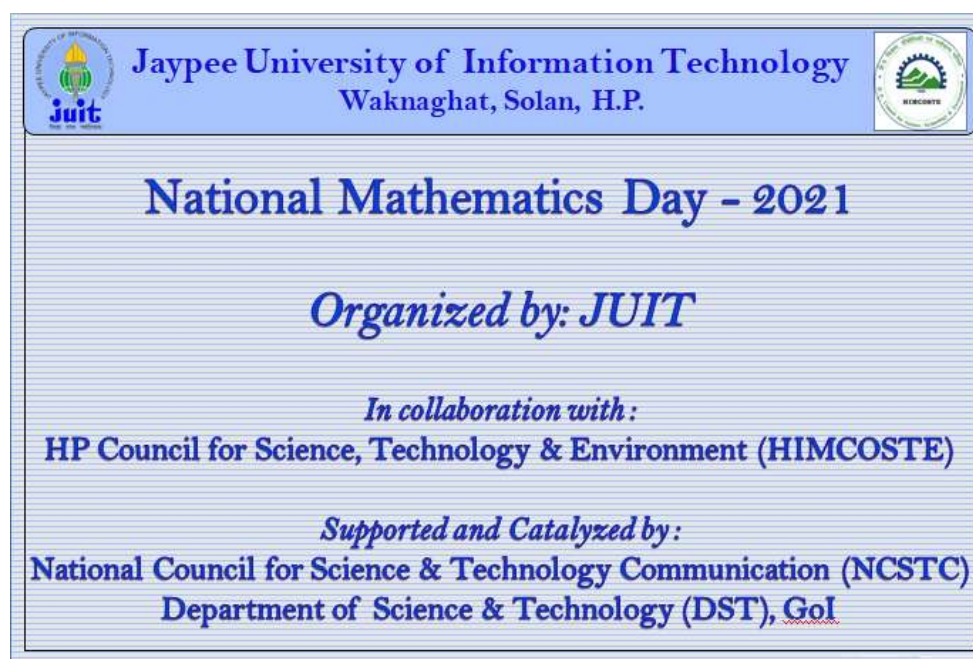


## **Outreach activity at Guru Gobind Singh Public School, Bokaro, Jharkhand (21 January, 2022)**

Prof. Sudhir Kumar – Head Biotechnology and Bioinformatics Department conducted an outreach Program on “Opportunities in Biotechnology and Bioinformatics” for students of Guru Gobind Singh School, Bokaro, Jharkhand. The various degree programs, milestones and job avenues in these two fields were explained to students. The students were told about Skill Vigyan Program, its importance and scholarship program of DBT, Govt. of India. Students asked about the fee and time of opening of our admission process for these and other degree programs. A total 65 students joined this session. Prof. Sudhir Kumar expressed his gratitude to Principal and Coordinator of the school.

Report of the celebration of National Mathematics Day (December 2021)  
sponsored by HIMCOSTE

**Jaypee University of Information Technology**  
**celebrated National Mathematics Day (NMD) - 2021**  
**with hundreds of School Students**



Department of Mathematics, Jaypee University of Information Technology, Wahnaghat celebrated National Mathematics Day-2021 on the birth anniversary of Sir Srinivasa Ramanujan, one of the great Mathematicians of the 20th century. This event is being organized in association with HIMCOSTE, Government of H.P. Various events like quiz, poster competition etc. are conducted during this event. On this occasion welcome speech is given by program coordinator Dr. Tiratha Raj Singh. Hon'ble Vice Chancellor Prof. R.K. Sharma has addressed the students and focused on the importance of education and learning. HoD Mathematics Prof. Karanjeet Singh addressed the students and focused on the life of S. Ramanujan and importance of Mathematics. Invited speakers Dr. Ziya Uddin and Dr. D.N. Pandey delivered the lecture during this event in a technical session. This session was chaired by program Co-coordinators Dr. Ragini Raj Singh and Dr. Bhupendra Pathak. Prof. P.B. Barman, HoD, Physics and Materials Science and Prof. Sudhir Kumar, HoD, BT and BI announced the winners of poster and quiz competitions respectively. Dr. Rakesh Bajaj gave the concluding remarks and finally at the end

## Report of the celebration of National Mathematics Day (December 2021) sponsored by HIMCOSTE

of the event Dr. Bhupendra Pathak has given the vote of thanks. More than 260 students registered and participated in this event. 85 students participated in quiz competition while 70 posters were submitted for the poster competitions. Winners were from Govt. Model Senior Secondary School Shoghi, Govt. Girls Senior Secondary School Rampur, Sishu Vidhya Niketan Public School, Nahan, Springdale Public School, Rampur, and Govt. Model Senior Secondary School, Junga. HIMCOSTE, Government of H.P. supported this event and is catalyzed and supported by DST, Government of India. Hundreds of school students and teachers from various part of Himachal Pradesh and India were connected online to participate in this event and were very happy and enthusiast about it. This event is coordinated by Dr. Tiratha Raj Singh.

**Jaypee University of Information Technology (JUIT)**  
in association with  
**HIMCOSTE, Govt. of H. P.**  
is celebrating  
**National Mathematics Day**  
22-Dec-2021

**Event Coordinator**  
Dr. Tiratha Raj Singh  
**Event Co-coordinators**  
Dr. Bhupendra K. Pathak  
Dr. Ragini Raj Singh

**Head of the Departments**  
Prof. Karanjeet Singh, Mathematics  
Prof. P. B. Barman, Physics and Materials Science  
Prof. Sudhir Kumar, Biotechnology and Bioinformatics

**Team Members**  
Dr. R.K. Bajaj, Dr. R.S. Raja Dural, Dr. Neel Kanth,  
Dr. P.K. Pandey, Dr. S. Srivastava, Dr. Madhup

**Events**  
1. Online popular lectures for school students.  
2. Offline quiz (in selected schools).  
3. Online poster competition on Mathematics (School students: Class 9-12).

**Prizes & Awards\*:**  
First Prize: Rs. 5000/-  
Second Prize: Rs. 2000/-  
Third Prize: Rs. 1000/-  
Certificates will be given to all the Participants

**Speakers**

**Dr. D. N. Pandey**  
Associate Professor,  
Department of Mathematics,  
Indian Institute of Technology (IIT)  
Roorkee, India

**Dr. Ziya Uddin**  
Associate Professor,  
Department of Applied Sciences,  
BML Munjal University,  
Gurugram, India

**\*For Registration Click Here:** <https://forms.gle/jSrMfSeNGq5Ann856>

**Contact No. :** 9816181519, 8091004695 **E-mail:** [nmsd@juitsolan.in](mailto:nmsd@juitsolan.in)

**\*Registration Deadline is 15th Dec., 2021. \*Separate Prizes for Quiz and Poster Competitions**  
Jaypee University of Information Technology, Waknaghat, Solan, HP, India



**Report of the celebration of National Mathematics Day (December 2021)  
sponsored by HIMCOSTE**

**Offline Quiz Organized at: Shishu Vidya Niketan Public School, Nahan**



**Report of the celebration of National Mathematics Day (December 2021)  
sponsored by HIMCOSTE**

**Offline Quiz Organized at: Government Senior Secondary School, Junga**





**Report of the celebration of National Mathematics Day (December 2021)  
sponsored by HIMCOSTE**

**Offline Quiz Organized at: Government Senior Secondary School, Shoghi**



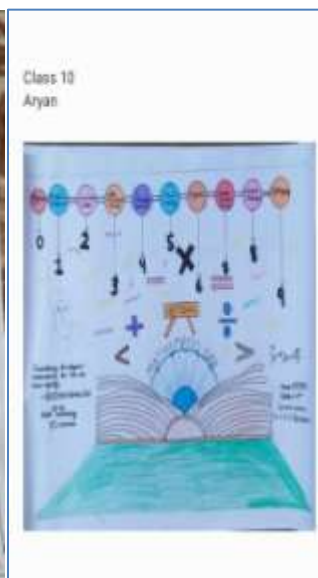
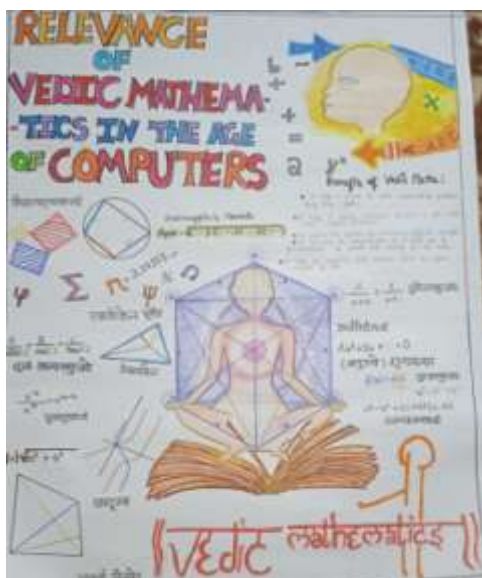


**Report of the celebration of National Mathematics Day (December 2021)**  
**sponsored by HIMCOSTE**

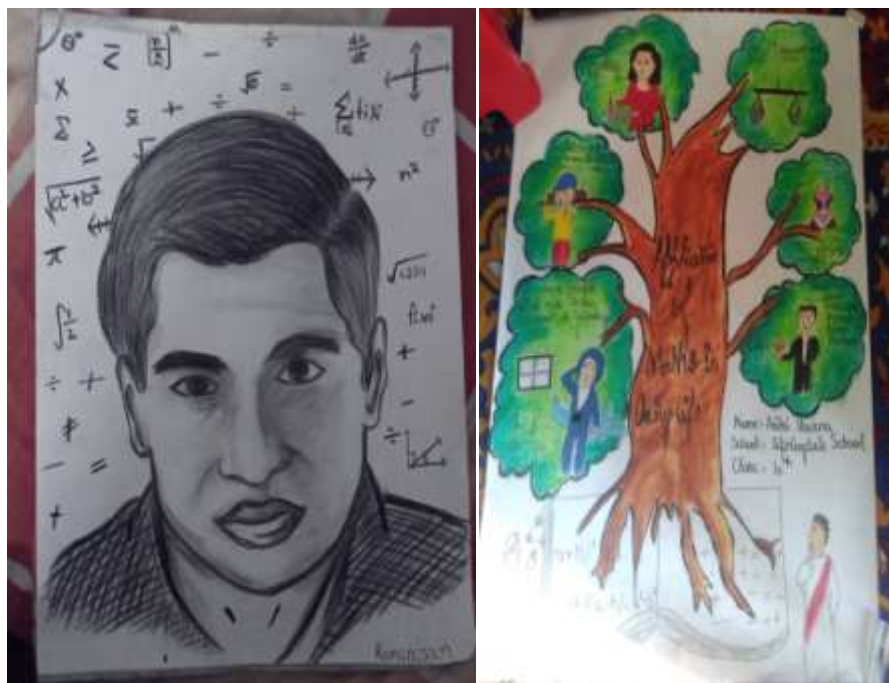
**Poster submitted by School Students**

**Themes for the Posters**

1. Contributions of Sir Ramanujan in Mathematics.
2. Relevance of Vedic Mathematics in the age of computers.
3. Evolution of Mathematics in 20<sup>th</sup> century.
4. Application of Mathematics in real-life.
5. History and evolution of the number system.
6. Contributions of Indian Mathematicians.



## Report of the celebration of National Mathematics Day (December 2021) sponsored by HIMCOSTE

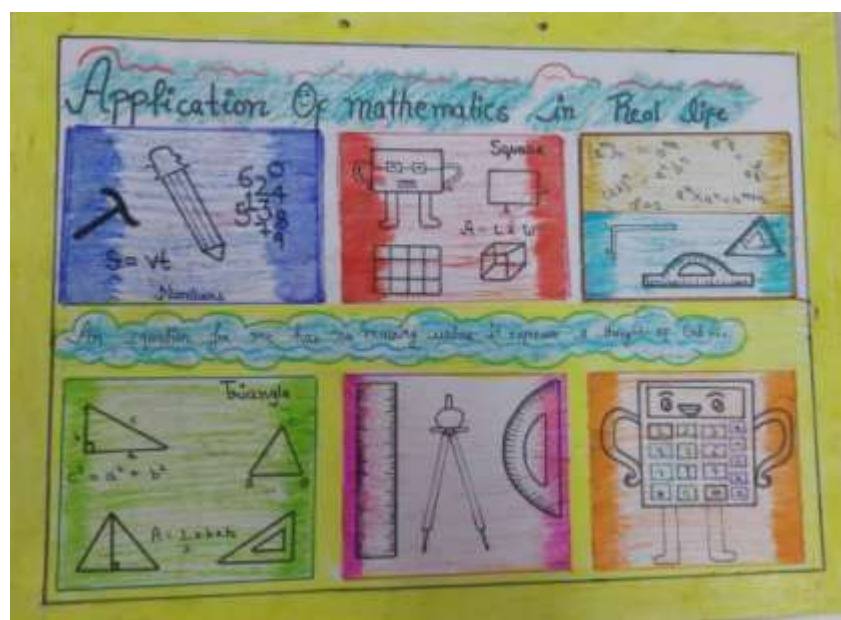
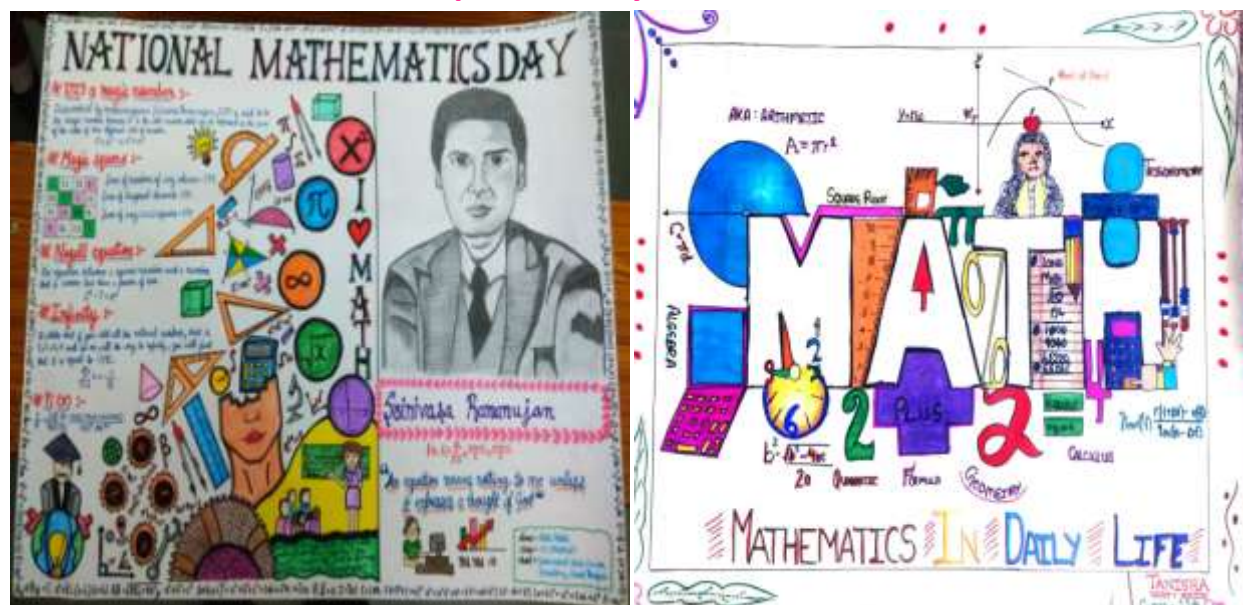


Report of the celebration of National Mathematics Day (December 2021)  
sponsored by HIMCOSTE





Report of the celebration of National Mathematics Day (December 2021)  
sponsored by HIMCOSTE



**Report of the celebration of National Mathematics Day (December 2021)  
sponsored by HIMCOSTE**

21- December-2021

**National Mathematics Day -2021**

**Declaration of the results of the quiz conducted in the offline mode on 20.12.2021**

The committee members have decided the winners for the quiz conducted in the offline mode on dated 20.20.2021 as per the following details:

**1. First position:**

**Mr. Ishant Pahadia, S/O- Shri Ramesh Pahadia,**  
Class-XII, Shishu Vidya Niketan Public School,  
Nahan, Sirmour, Himachal Pradesh  
Mobile No.9418009858  
Email Id: [ishantpahadia@gmail.com](mailto:ishantpahadia@gmail.com)

**2. Second position:** (Tied between two participants, hence prizes will be equally distributed between them)

First participant:

**Mr. Rohit pal, S/O- Shri Ramesh chand**  
Class-XI, Government Model Senior Secondary School, Shoghi, Shimla,  
Himachal Pradesh  
Mobile No.7018714137  
Email Id: [rohitroreit@gmail.com](mailto:rohitroreit@gmail.com)

Second participant:

**Ms. Deepshikha, D/O- Shri Speel Chand**  
Class-XI, Government Model Senior Secondary School, Shoghi, Shimla,  
Himachal Pradesh  
Mobile No.8580559919  
Email Id: [speelchand@gmail.com](mailto:speelchand@gmail.com)

**3. Third position:**

**Ms. Kadambini, D/O- Shri Jagdish Sharma,**  
Class-XII, Government Model Senior Secondary School, Junga, Shimla,  
Himachal Pradesh  
Mobile No.9418643810  
Email Id: [kadambinisharma346@gmail.com](mailto:kadambinisharma346@gmail.com)

Report of the celebration of National Mathematics Day (December 2021)  
sponsored by HIMCOSTE





**Report of the celebration of National Mathematics Day (December 2021)**  
**sponsored by HIMCOSTE**

21- December-2021

**National Mathematics Day -2021**

**Declaration of the results of the poster competition conducted in the online mode**

The committee members have decided the winners for the poster competition conducted in the online mode as per the following details:

**1. First position:** (Tied between two participants, hence prizes will be equally distributed between them)

First participant:

**Ms. Aditi Mehta**  
Class-XI, Govt. Girls Senior Secondary School,  
Rampur, Himachal Pradesh

Second participant:

**Ms. Vijay Shree**  
Class -XII, Govt. Model Senior Secondary School, Shoghi  
Shimla, Himachal Pradesh

**2. Second position:** (Tied between two participants, hence prizes will be equally distributed between them)

First participant:

**Mr. Anmol**  
Class-IX, Springdale School,  
Rampur, Himachal Pradesh

Second participant:

**Ms. Aanchal**  
Class -X, Govt. Model Senior Secondary School, Shoghi  
Shimla, Himachal Pradesh

**3. Third position:**

**Ms. Tanisha Dutta**  
Class-XI, Springdale School,  
Rampur, Himachal Pradesh

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**Report of the celebration of National Mathematics Day (December 2021)**  
**sponsored by HIMCOSTE**

**Technical Program for Online event on National Mathematics Day (Dec 28 2021)**



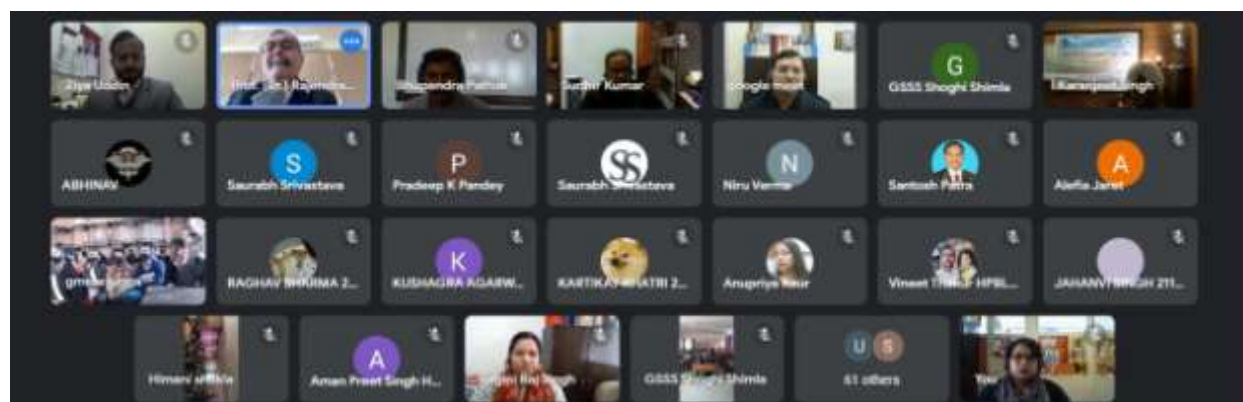
**Jaypee University of Information Technology (JUIT)**

**National Mathematics Day 2021**

**December 22, 2021**

**Schedule**

S. No.	Time (IST)	Event	Involvement
Inaugural Session			
1	9:45-10:15 AM	Online joining of school teachers and students	Team NMD
2	10:15 AM	Welcome and Saraswati Vandana	Dr. Tiratha Raj Singh and Student
3	10:20 AM	Address by HoD Mathematics	Prof. Karanjeet Singh
4	10:25 AM	Address by Hon'ble VC Sir	Prof. R.K. Sharma
Invited Talks Session			
5	10:30 AM	Invited Talk by Dr. Ziya Uddin	Session chairs: Dr. Ragini Raj Singh and Dr. Bhupendra Pathak
6	11:00 AM	Invited Talk by Dr. D.N. Pandey	
Conclusion Session			
7	11:30 AM	Announcements of Poster winners by Prof. P.B. Barman, HoD, Physics and Materials Science	Prof. P.B. Barman
8	11:40 AM	Announcements of Quiz winners by Prof. Sudhir Kumar, HoD, BT and BI	Prof. Sudhir Kumar
9	11:50 AM	Concluding Remarks & Feedback from School Teachers and Students	Dr. Rakesh Bajaj
10	12:00 AM	Vote of Thanks	Dr. Bhupendra Pathak





## Report of the celebration of National Mathematics Day (December 2021) sponsored by HIMCOSTE

### Team NMD – 2021 with Maths HoD



### Conclusion and Tea Party NMD – 2021



**Report of the celebration of National Mathematics Day (December 2021)**  
**sponsored by HIMCOSTE**  
**News Clippings of the Event**



**हिन्दुस्तान**

**कारेबारी चर्चा** कलकत्ता कलकत्ता इन्फोर्मेटिव

**इंटरनेशनल जूनियर साइंस ओलम्पियाड में एलन एक बार फिर अक्विल**

एलन कोरियर इंस्टीट्यूट ने एक बार फिर देश का मान बढ़ाया है। इंटरनेशनल जूनियर साइंस ओलम्पियाड (आईजेएसओ) में एलन क्लासरूम स्टूडेंट्स ने 4 गोल्ड मेडल हासिल किए हैं। सभी गोल्ड मेडलिस्ट स्टूडेंट्स का एलन संकल्प कैम्पस में निदेशक राजेश माहेश्वरी व नवीन माहेश्वरी ने अभिनन्दन किया। निदेशक राजेश माहेश्वरी ने कहा कि एलन सदैव स्टूडेंट्स को बेहतर माहौल और श्रेष्ठ सुविधा देने में विश्वास रखता है ताकि प्रतिभा निखर सके।

एलन कोरियर इंस्टीट्यूट के निदेशक लवीन माहेश्वरी ने बताया कि आईआईटी जेईई व जीएट में बेहतर प्रदर्शन के साथ ही अंतरराष्ट्रीय स्तर पर भी एलन स्टूडेंट्स लगातार कामकाजी हासिल कर रहे हैं। 18वें इंटरनेशनल जूनियर साइंस ओलम्पियाड का परिणाम बुधवार से लाइव प्रोग्राम में घोषित किया गया, जिसमें एलन के 4 स्टूडेंट्स ने गोल्ड मेडल हासिल किए, इसमें अभिषेक प्रधान, देवेश मेघा, राजदीप मिश्रा और वेद लाहौटी शामिल हैं।

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**जेपी सूचना प्रौद्योगिकी विश्वविद्यालय ने सैकड़ों स्कूली छात्रों के साथ राष्ट्रीय गणित दिवस मनाया**

गणित विभाग, जेपी सूचना प्रौद्योगिकी विश्वविद्यालय, वरुणाघाट ने 20वीं सदी के महान गणितज्ञों में से एक, सर श्रीनिवास रामानुजन की जयंती पर राष्ट्रीय गणित दिवस-2021 मनाया। वह कार्यक्रम हिमाचल प्रदेश सरकार के हिमकोस्ट के सहयोग से आयोजित किया जा रहा है। इस आयोजन के दौरान प्रश्नोत्तरी, पोस्टर प्रतियोगिता आदि जैसे विभिन्न कार्यक्रम आयोजित किए जाते हैं। इस अवसर पर स्वागत भाषण कार्यक्रम समन्वयक डॉ. तीरथ राज सिंह ने दिया। मनजीय कुलकर्णी प्रो. आर.के. शर्मा ने छात्रों को संबोधित किया और शिक्षा और सीखने के महत्व पर ध्यान केंद्रित किया। गणित विभागाध्यक्ष प्रो. करकजीत सिंह ने छात्रों को संबोधित किया और एस. रामानुजन के जीवन और गणित के महत्व पर ध्यान केंद्रित किया। आमंत्रित वक्ताओं डॉ. जिया उद्दीन और डॉ. डी.एन. पांडे ने इस कार्यक्रम के दौरान तकनीकी सत्र में व्याख्यान दिया।

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**शास्दा विश्वविद्यालय ने धूमधाम से मनाई रजत जयंती**

शास्दा विश्वविद्यालय ने धूमधाम के साथ अपनी रजत जयंती (25वें स्थापना) दिवस मनाया। इस मौके पर शिक्षा जगत की नामचीन हस्तियों के अलावा कई दूतावास के अधिकारी और राजदूत आए हुए थे। विवि की सेवा में उत्कृष्ट काम करने वाले कर्मचारियों और अधिकारियों के अलावा पूर्व बीसी और कुल सचिवों को सम्मानित किया गया। अध्यक्षेयिक क्लब और कन्वेंशन में गुरुवार देर रात तक चले समारोह में शार्ट फिल्मों के जरिए शास्दा समूह की पिछले 25 वर्षों की यात्रा की जानकारी दी गई। इस मौके पर विश्वविद्यालय के वाइसलर पी के गुप्ता ने कहा कि 25 साल पहले हमलोगों ने एक विजन के साथ शिक्षा क्षेत्र में कदम रखा था। इसका उद्देश्य स्थानीय बच्चों को उच्चतर और तकनीकी समेत मेडिकल की पढ़ाई के लिए दक्षिण भारत या दूर न जाना पड़े, इसी को देखते हुए इंजीनियरिंग से लेकर मेडिकल कॉलेज के साथ ही कई विषयों में अंडर ग्रेजुएट कोर्स चलाए जा रहे हैं।

## सैकड़ों स्कूली छात्रों के साथ राष्ट्रीय गणित दिवस मनाया

नई दिल्ली, 22 दिसंबर (सवेरा) : गणित विभाग जे.पी. सूचना प्रौद्योगिकी विश्वविद्यालय वकनाघाट ने 20वीं सदी के महान गणितज्ञों में से एक, सर श्रीनिवास रामानुजन की जयंती पर राष्ट्रीय गणित दिवस 2021 मनाया। ये कार्यक्रम हिमाचल प्रदेश सरकार के हिमकोस्टे के सहयोग से आयोजित किया जा रहा है। इस आयोजन के दौरान प्रश्नोत्तरी, पोस्टर प्रतियोगिता आदि जैसे विभिन्न कार्यक्रम

म आयोजित किए जाते हैं। माननीय कुलपति प्रो. आर.के. शर्मा ने छात्रों को संबोधित किया और शिक्षा और सीखने के महत्व पर ध्यान केंद्रित किया। गणित विभागाध्यक्ष प्रो. करणजीत सिंह ने छात्रों को संबोधित किया और एस. रामानुजन के जीवन और गणित के महत्व पर ध्यान केंद्रित किया। आमंत्रित वक्ताओं डा. जिया उद्दीन और डा. डी.एन. पांडे ने कार्यक्रम के दौरान तकनीकी सत्र में व्याख्यान दिया। प्रो.

पी.बी.बर्मन, विभागाध्यक्ष, भौतिकी और सामग्री विज्ञान और प्रो. सुधीर कुमार, विभागाध्यक्ष, जैव प्रौद्योगिकी और जैव सूचना विज्ञान ने क्रमशः पोस्टर और प्रश्नोत्तरी प्रतियोगिताओं के विजेताओं की घोषणा की। आयोजन में 260 से अधिक छात्रों ने पंजीकरण कराया और भाग लिया। प्रश्नोत्तरी प्रतियोगिता में 85 विद्यार्थियों ने भाग लिया जबकि पोस्टर प्रतियोगिता के लिए 70 पोस्टर प्रस्तुत किए गए।





**Report of the celebration of National Mathematics Day (December 2021)  
sponsored by HIMCOSTE**

## **Jaypee University of Information Technology, HIMCOSTE organize various events**

### *Excelsior Correspondent*

JAMMU, Dec 22: Department of Mathematics, Jaypee University of Information Technology, Wanknaghat in association with HIMCOSTE, Government of HP organized various events like quiz and poster competition.

On the occasion, welcome speech was given by program coordinator Dr Tiratha Raj Singh.

Vice Chancellor, Prof RK Sharma addressed the students and focused on the importance of education and learning. HoD Mathematics Prof Karanjeet Singh addressed the students and focused on the life of great mathematician Srinivasa Ramanujan and importance of Mathematics.

Invited speakers Dr Ziya Uddin and Dr DN Pandey delivered the lecture during this event in a technical session. This session was chaired by program Co-coordinators Dr Ragini Raj Singh and Dr Bhupendra Pathak.

Prof PB Barman, HoD, Physics and Materials Science

and Prof Sudhir Kumar, HoD, BT and BI announced the winners of poster and quiz competitions respectively.

Dr Rakesh Bajaj gave the concluding remarks and finally at the end of the event Dr Bhupendra Pathak presented the vote of thanks.

More than 260 students registered and participated in events. 85 students participated in quiz competition while 70 posters were submitted for the poster competitions. Winners were from Government Model Senior Secondary School Shoghi, Government Girls Senior Secondary School Rampur, Sishu Vidhya Niketan Public School, Nahan, Springdale Public School, Rampur, and Government Model Senior Secondary School, Junga.

HIMCOSTE, Government of HP supported this event and is catalyzed and supported by DST, Government of India. Hundreds of school students and teachers from various parts of Himachal Pradesh and India were connected online to participate in this event. This event is coordinated by Dr. Tiratha Raj Singh.

**12 WORLD**

**The Tribune**  
CHANDIGARH TUESDAY | 28 DECEMBER 2021

### **Jaypee varsity celebrates National Mathematics Day**

The Department of Mathematics, Jaypee University of Information Technology, Solan, recently celebrated National Mathematics Day on the birth anniversary of Srinivasa Ramanujan.

## Report of the celebration of National Mathematics Day (December 2021) sponsored by HIMCOSTE

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**चंडीगढ़** | शनिवार, 25 दिसंबर 2021 | **6**



**उपायुक्त सिरमौर के साथ स्कूली बच्चों। संवाद**

**जेपी सूचना प्रौद्योगिकी विवि में गणित दिवस पर प्रतियोगिता सोलन।** वाकनाघाट स्थित जेपी सूचना प्रौद्योगिकी विवि के गणित विभाग की ओर से सर श्रीनिवास रामानुजन की जयंती पर राष्ट्रीय गणित दिवस-2021 मनाया। हिमाचल प्रदेश सरकार के हिमकोस्टे के सहयोग से आयोजित कार्यक्रम में स्कूली छात्र-छात्राओं ने प्रश्नोत्तरी, पोस्टर व अन्य प्रतियोगिता आयोजित की गई। इस मौके पर कुलपति प्रो. आरके शर्मा, गणित विभागाध्यक्ष प्रो. करनजीत सिंह ने गणित का महत्व बताया। आमंत्रित वक्ताओं डॉ. जिया उद्दीन और डॉ. डीएन पांडे ने तकनीकी सत्र में व्याख्यान दिया। कार्यक्रम की अध्यक्षता सह संयोजक डॉ. रागिनी राज सिंह एवं डॉ. भूपेंद्र पाठक ने की। स्वागत भाषण कार्यक्रम समन्वयक डॉ. तीरथ राज सिंह ने दिया। इस आयोजन में 260 से अधिक छात्रों ने पंजीकरण कराया और भाग लिया।



**सिरमौर के साथ मौजूद सफाई कर्मी। संवाद**



**पांवटा के पिपलीवाला में स्कूल भवन के लोकार्पण के दौरान ऊर्जा मंत्री सुखराम का स्वागत करते ग्रामीण। संवाद**

**सर की कैटीन और दो गार्यालयों के तोड़े ताले**

पांवटा साहिब में शातिरों के हौसले बुलंद, न्यायालय परिसर तक पहुंचे

मौर)।  
हौसले  
कछ दिन पहले भी कैटीन का

**ऊर्जा मंत्री ने किया पिपलीवाला स्कूल के अतिरिक्त भवन का लोकार्पण**

पांवटा साहिब (सिरमौर)। पांवटा विस क्षेत्र में चालू वित्त वर्ष के दौरान सड़कों, पुलों और भवनों के निर्माण पर 25 करोड़ रुपये की राशि खर्च की जा रही है।

में 45 लाख रुपये की लागत से जलजीवन मिशन के अंतर्गत निर्मित होने वाली पेयजल योजना का शिलान्यास किया। इस अवसर पर अध्यक्ष श्रीदीपजी बिजेंद्र कुमार, जिला

View All Pages
← Page 10 of 20 →

In continuation.....

## **Prof. Sudhir Kumar visited Govt.PG College Sector-1 Panchkula on 15th November,2021**

Prof. Sudhir Kumar visited Govt.PG College Sector-1 Panchkula, Haryana and had an interaction with Biotechnology faculty (Dr.Rashmi) of the college on 15 November, 2021. Prof. Sudhir elaborated GAT-B program of DBT, Govt. of India and its 10 sponsored seats at Department of Biotechnology and Bioinformatics, Jaypee University of Information & Technology Waknaghat for M. Sc. Biotechnology Program. He detailed about procedure of selection, test, fellowship and fee etc for GAT-B qualified students. He also explained about DBT Skill Vigyan Programme for Quality Control Biologist and Lab. Technician trades in the Department. He provided an overview of the procedure of selection and fellowship for B.Sc. passed and 12<sup>th</sup> Science students. The concerned faculty of the college proposed an offline interaction of Prof. Sudhir Kumar with B.Sc. Biotechnology students for career counselling for the above two programs. He has a follow up telephonic conversion on 17<sup>th</sup> November for near future interaction with students.

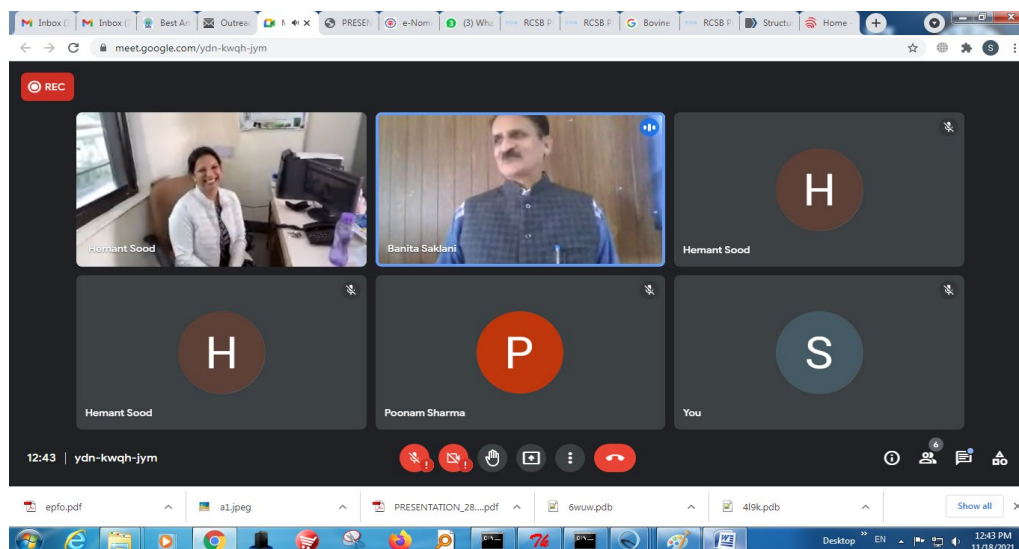


## Online Workshop on Plant Tissue Culture Techniques by The Department of Biotechnology and Bioinformatics JUIT to Vallabh Govt. College, Mandi, HP on 18<sup>th</sup> November, 2021

On 18<sup>th</sup> Nov 2021 Department of Biotechnology and Bioinformatics, JUIT has organized a workshop via online mode for demonstrating different plant tissue culture techniques to ~200 students of B.Sc (medical) final year of Vallabh Govt. College Mandi. Dr. Hemant Sood and Dr. Poonam Sharma coordinated this workshop along with a team composed of Mamta Mishra, Somlata Sharma, and Rolika Gupta. Dr. Banita and Prof Priyanka from the Department of Botany along with their team coordinated all via online mode at Vallabh Govt. College Mandi. The workshop session started with a lecture by Dr. Hemant Sood, Associate professor (BT &BI) about Scopes of Biotechnology and Bioinformatics and its future avenues in India and overseas. Followed by a live demonstration of Plant Tissue Culture techniques via shared Google meet link. Prof Y.P. Sharma (Principal, VGC, Mandi) addressed the students and acknowledge the efforts of the coordinating team of JUIT, Mandi College, and Administration of JUIT. In the last, the interaction with students was carried out and online feedback was collected via shared Google form. Efforts of the Coordinators, support from HOD BT &BI (Prof Sudhir Syal), and JUIT Administrations were deeply acknowledged for their constant support. (Pic and Newspaper coverage attached )



## Online workshop and demonstration of techniques to students of Vallabh Govt College,Mandi



## Address by Professor Y.P. Sharma (Principal,VGC,Mandi) Vallabh Govt College,Mandi

### जैव प्रौद्योगिकी का विकास के क्षेत्र में अहम रोल : शर्मा

मंडी। देश और दुनिया में जैव प्रौद्योगिकी विकास के क्षेत्र में महत्वपूर्ण भूमिका निभाती है। जैव प्रौद्योगिकी के क्षेत्र में अनुसंधान, शोध और रोजगार की प्रबल संभावनाएं हैं।

यह बात वल्लभ राजकीय महाविद्यालय मंडी में प्लांट्स टिशु कल्चर विषय पर आयोजित कार्यशाला की अध्यक्षता करते हुए प्राचार्य डॉ. वाईपी शर्मा ने कही। इस अवसर पर जेपी विश्वविद्यालय सोलन के डॉ. हेमंत सूद ने ऑनलाइन प्लेटफार्म पर टिशु कल्चर प्रयोगशाला के तकनीकी पहलुओं से मंडी महाविद्यालय के वनस्पति विभाग के विद्यार्थियों को अवगत करवाया। जैव प्रौद्योगिकी

पर आधारित कार्यशाला का आयोजन वल्लभ राजकीय महाविद्यालय मंडी और जेपी विश्वविद्यालय के संयुक्त तत्वावधान में कराया गया। प्रो. डॉ. बनिता सकलानी ने कहा कि महाविद्यालय में ऑनलाइन प्लेटफार्म से महाविद्यालय के वनस्पति विभाग के विद्यार्थियों को जैव प्रतियोगी की विभिन्न तकनीकों का विषय विशेषज्ञों ने प्रशिक्षण दिया। वनस्पति विज्ञान विभाग की विभाग अध्यक्ष प्रोफेसर प्रियंका, डॉ. अनिता कुमारी, सहायक प्रोफेसर ममता परमार, सहायक प्रोफेसर डॉ. बनिता सकलानी सहित समस्त वनस्पति विज्ञान विभाग के प्रोफेसर और विद्यार्थी उपस्थित रहे। संवाद

News coverage by Vallabh Govt College,Mandi

A  
REPORT ON  
ACADEMIC INSTITUTION VISIT

By  
GOVT. MOHINDRA COLLEGE PATIALA-PUNJAB

To  
DEPARTMENT OF BIOTECHNOLOGY  
JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY-  
WAKNAGHAT

ON  
09<sup>th</sup> October 2021

ORGANIZED BY  
Department of Biotechnology  
JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY-  
WAKNAGHAT





Academic institution visit was carried out at Department of Biotechnology-Jaypee University of Information Technology Wanknaghat-Solan on 09<sup>th</sup> October, 2021 especially for UG students of Govt. Mohindra College Patiala-Punjab (BSc Medical). The main objective behind the visit was to make student aware about how various activities related to microbiology, molecular biology, plant biotechnology, environmental biotechnology, biogas production and sophisticated instrumentation is running in the Department of Biotechnology & Bioinformatics-Jaypee University of Information Technology Wanknaghat-Solan and give them feel of biotechnology applications as soon as they start their courses in higher studies in this domain.

Prof. Sudhir Kumar along with Dr. Rahul Shrivastava and Dr. Abhishek Chaudhary coordinated the visit. As students along with two faculty members (Dr. Suneet Kumar Gupta and Ms. Shallu) reached at JUIT from Govt. Mohindra College Patiala-Punjab, they were guided by Prof. Sudhir Kumar along with Dr. Rahul and Dr. Abhishek to the laboratory, where an orientation of was given by Prof. Kumar about the department teaching and research activity.

After introduction, all students were divided in two groups of 18 and 17 students and were headed by Dr. Rahul and Dr. Abhishek to respective research lab that helped them to understand the research work going on the respective labs.

Students took almost three hour to see all laboratories and complete set of instruments which was followed by questions of students. They also performed basic experiments of blood group testing and our team demonstrated DNA extraction procedure followed by its



visualization to all students. We appreciate faculty and staff member who guided students with each and every question with detailed answers.

It is rightly said that “See & know’ is better than ‘read & learn’. Students got real feel of research work after this visit which was evident from their verbal feedback. They got an idea to transfer their theoretical knowledge to practical implication. This will even help students to understand subject matter clearly in future also. Faculties of Govt. Mohindra College Patiala-Punjab were thankful to our team for this visit.

Prof. Sudhir Kumar along with Dr. Rahul and Dr. Abhishek would like to extend our gratitude to our Vice Chancellor Sir, Dr. R.K Sharma, Registrar Sir Maj. Gen. R. Bassi, and Dean Academic Prof. Ashok Gupta for allowing us to organize this visit.

Thanks

Dr. Abhishek

**Centre of Excellence in Sustainable Technologies for Rural Development**  
**Department of Biotechnology and Bioinformatics**  
**Jaypee University of Information technology Waknaghat-Solan H.P**

The Students of Govt. Mohindra College Patiala-Punjab visited Centre of Excellence in Sustainable Technologies for Rural Development (CESTERD) to get an idea of sustainable technologies. Prof. Sudhir Kumar and Mr. Karam Das accompanied these students and faculty to JUIT field biogas plant. They were given an idea of fabrication, working and application of biogas reactor. The technology related to Pine briquettes, vermin-composting and potable biogas plant was also explained to them.

Students got real feel of sustainable technology research work after this visit which was evident from their verbal feedback. They got an idea to transfer their theoretical knowledge to practical implication also.







अमर उजाला

शिमला

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# प्रदेश की जलवायु फूलों की खेती के लिए उपयुक्त

आरकेएमवी के ऑनलाइन कार्यक्रम में वैज्ञानिकों ने दी कॅरिअर के रूप में अपनाने की सलाह, वेबिनार में 90 विद्यार्थियों ने की शिरकत

अमर उजाला ब्यूरो

शिमला। हिमाचल की जलवायु फूलों की खेती के लिए उपयुक्त है। युवा इसे स्वरोजगार के रूप में अपनाकर अच्छी खासी कमाई कर सकते हैं।

यह जानकारी राजकीय कन्या महाविद्यालय (आरकेएमवी) के वनस्पति विज्ञान विभाग के सौजन्य से ऑनलाइन आयोजित कार्यक्रम में बागवानी और वानिकी

**बीज उत्पादन रोजगार का अच्छा जरिया : डॉ. भारती**

डॉ. वाईएस परमार बागवानी एवं वानिकी विश्वविद्यालय नौणी की एसोसिएट प्रोफेसर एवं फ्लोरोकल्चर और लैंड स्केपिंग विभाग की प्रधान वैज्ञानिक डॉ. भारती कश्यप ने छात्रों को व्यावसायिक फूलों की खेती के विभिन्न पहलुओं से अवगत करवाया। बताया कि हिमाचल की जलवायु विभिन्न व्यावसायिक फूलों की खेती के लिए उपयुक्त है। युवा इसे कॅरिअर के रूप में अपना सकते हैं। उन्होंने कटफ्लावर, बीज उत्पादन, ऑफ सीजन फसलें उगाने, सूखे फूल, फूलों की फसलों के मूल्य वर्धन, वमी कंपोस्टिंग उत्पादन बारे बताया।

विश्वविद्यालय नौणी सोलन के वनस्पति विज्ञान में स्नातक डिग्री वैज्ञानिकों और वक्ताओं ने दी। पूरा करने वाले छात्र-छात्राओं के आरकेएमवी प्रबंधन ने लिए कॅरिअर के रूप में उपलब्ध

विकल्पों पर शुरुआत को वेबिनार का आयोजन किया। इसमें आरकेएमवी के साथ ही संजोली और राजीव गांधी महाविद्यालय चौड़ा मैदान के करीब 90 विद्यार्थियों ने भाग लिया। आरकेएमवी की प्राचार्य डॉ. नवेंदु शर्मा ने इसमें बतौर मुख्यातिथि शिरकत की। उन्होंने इस आयोजन के लिए जीव विज्ञान विभागाध्यक्ष डॉ. अनिल ठाकुर, समन्वयक डॉ. रेणु राणा और संयोजक डॉ. राजेंद्र

प्रकाश की सराहना की। डॉ. अनिल ठाकुर ने कहा कि डिग्री पूरी करने के बाद विद्यार्थी असमंजस में होते हैं कि अब क्या करें।

ऐसे में इस तरह के वेबिनार इनके लिए फायदेमंद साबित होंगे। जीव प्रौद्योगिकी और जीव सूचना विज्ञान विभाग के प्रमुख प्रो. सुधीर स्याल ने भी विद्यार्थियों का मार्गदर्शन किया। अमेरिका से लौटे प्रो. स्याल का



शोधपत्र विश्व की शीर्ष विज्ञान पत्रिका नेचर में भी प्रकाशित हो चुका है। उन्होंने बताया कि

एमएससी के दौरान छात्रों को 10,000 प्रतिमाह स्टाइपेंड प्रदान किया जाता है। बताया कि आईआईटी मंडी स्थित चोफ मिनिस्टर्स इनक्यूबेशन सेंटर और जेपी यूनिवर्सिटी वाक्नाघाट सोलन के बारे में भी जानकारी दी।

**Prof. Sudhir Kumar delivered a webinar on Teaching and Learning for school and college faculty of Himachal and other states on 16th January, 2021.**

This talk included discussion on goal of teaching and innovative methodology of teaching learning practices. The emphasis was on creativity and engagement for practical learning. The talk highlighted the importance of decisional relationship and care in teacher-student interaction. The innate mechanisms of feedback and mode of preparation and delivery of lecture were also discussed. A group of 40 participants attended this session. Through his talk, he highlighted the methodology and innovation and creativity practices in teaching and learning.



## **Celebration of National Science Day 2020 at Govt. Degree College, Solan (HP )**

On 28<sup>th</sup> Feb 2020, Dr Hemant Sood (Associate professor, BT&BI) Department of Biotechnology and Bioinformatics, JUIT ,Waknaghat delivered lecture on **Scopes of applied biology** in Govt College Solan. As per the theme of **National Science Day Celebration 2020 ;Women in Science**, Dr Hemant motivated students of B.Sc (medical) final year and second year by citing contribution of women in science and technology. She provided them insight about future scopes in applied biology where usage of multidisciplinary sciences can be explored for research and future avenues. She informed them about different MSc programmes in Biotechnology and Bioinformatics and national level test for getting admissions. The lecture was attended by 110 students and some of them showed keen interest in doing some projects and workshops at JUIT. Dr Banita and Dr Rajender Prakash Assistant professors in Botany, Govt. College Solan and Mr Ankush (MSc.Biotechnology,JUIT) organised the event and their efforts and unconditional support is deeply acknowledged .



**Dr Hemant Sood delivering lecture in Govt College Solan, on the eve of National Science Day 2020**

REWARDS FOR  
विज्ञान प्रश्नोत्तर का आयोजन डा. रोहित गोयल प्रोफेसर इन फार्मसी, प्रो. आदेश सेनो डी शर्मा और डा. प्रदीप फैकल्टी ऑफ साइंस द्वारा किया गया था। प्रो. आदेश ने कहा कि यह हर साल विज्ञान प्रश्नोत्तरी का आयोजन करेगा। छात्रों को कड़ी मेहनत करनी चाहिए और लेनी चाहिए और अपना सर्वश्रेष्ठ प्रदर्शन करना चाहिए

## जेपी यूनिवर्सिटी वाकनाघाट ने सोलन कालेज में लगाई कार्यशाला

सोलन। जेपी यूनिवर्सिटी वाकनाघाट द्वारा राष्ट्रीय विज्ञान दिवस के उपलक्ष्य पर महाविद्यालय सोलन में कार्यशाला का आयोजन किया गया। कार्यशाला में जेपी यूनिवर्सिटी के जैव प्रौद्योगिकी और जैव सूचना विज्ञान विभाग के एसोसिएट प्रोफेसर डा. हेमंत सूद द्वारा स्कोप्स ऑफ अप्लाइड बायोलॉजी विषय पर व्याख्यान दिया गया। डा. हेमंत ने बीएससी (मेडिकल) अंतिम व द्वितीय वर्ष के विद्यार्थियों को प्रेरित किया। उन्होंने विद्यार्थियों बायोटेक्नोलॉजी और बायोइनफॉर्मेटिक्स के एमएससी में अलग-अलग प्रोग्राम के बारे में बताया। कार्यशाला में 110 विद्यार्थियों ने भाग लिया। जिनमें से कुछ विद्यार्थियों ने बायोटेक्नोलॉजी और बायोइनफॉर्मेटिक्स के एमएससी में नेशनल लेवल टेस्ट में भाग लेने की रुचि दिखाई। महाविद्यालय सोलन के बॉटनी विभाग के असिस्टेंट प्रोफेसर डा. बनिता और डा. राजेंद्र प्रकाश का कार्यशाला के सफल आयोजन में अपना योगदान दिया।



A webinar was delivered for school, college and Universities faculties on Teaching and Learning by Prof. Sudhir Kumar 17 October, 2020. 75 participants of Himachal and other states attended this webinar in online mode. Prof. Sudhir explained the teaching methods and innovative ways of content delivery. He shared the importance of learning through involving in activities. He also discussed about ways to make online and board teaching more interesting. The significance of relationship, creativity, and ways to resolve the problems of students were discussed. Dr. Poonam Sharma was moderator for this webinar.



## **Army Public School, Ambala Cantt, Ambala**

On 20<sup>th</sup> November, 2019 Dr Sudhir Kumar (Professor & HOD Biotechnology and Bioinformatics) Dr Hemant Sood (Associate Professor, Department of Biotechnology and Bioinformatics) and Mr Deepak (PhD scholar Biotechnology) visited Army Public school, Ambala Cantt for interaction with science students. Professor Sudhir Kumar explained the activities of Centre of Excellence in Sustainable Technologies for Rural Development. He shared the technology and usefulness of portable biogas reactors, Pine – briquettes, Vermicomposting and working of Sewage Treatment Plant. Dr Hemant talked about technologies developed for conservation and propagation of medicinal as well as exotic plant species. She talked about university's different establishments and accolades along with different perspectives of academic and research. She also highlighted about different engineering streams for taking admissions in B.Tech. programmes along with fee concessions to wards of Ex and Serving armed personnel. The session was attended by approximately 200 students and 5 faculty members. We are highly thankful to registrar Maj Gen Rakesh Bassi (Retd) and Principal Army Public school, Ambala Cantt for this opportunity.



# Outreach Activity Report

## Student Counseling at St. Edward's School

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

**Activity:** Student Counseling at St. Edward's School, Shimla

**Date:** 18 and 19 Oct., 2019

**Target Audience:** Students of High School and senior secondary school from various schools of Himachal and Punjab region and delegates from several academic organizations and industries.

**Number of Participants:** 200+

### Objectives of the activity:

1. Student's awareness for the admission related queries about the university.
2. To make students familiar with new and emerging fields of studies in various areas.

**Faculty:** Dr. Tiratha Raj Singh, Associate Professor, Department of BT and BI, Dr. Harsh Sohal, Assistant Professor Department of ECE.

**Assistant Registrar:** Dr. Sanjay Verma

**Students:** Mr. Rohit Shukla and Ms. Rolika Gupta (PhD scholars, Department of BT and BI), Ms. Kirti Tripathi, Ms. Urvashi and Ms. Charu (PhD scholars, Department of ECE)

Under the able guidance of Maj. Gen. (Retd.) Rakesh Bassi, Registrar and Dean of Students, JUIT along with HoD BT and BI Prof. Sudhit Kumar, a dynamic team of JUIT visited for the technical fest in St. Edwards School, Shimla. Dr. Tiratha Raj Singh with other faculty members and PhD scholars participated in this event. The purpose was to introduce various school's students about the various engineering and science programs offered by Jaypee University of Information Technology (JUIT), Wagnaghat. In this visit we have discussed about the JUIT courses, fee structure and the university rankings. We have also discussed about the placement

record and PhD selection in various international universities. This was a gathering of various students from several schools, and colleges and we have educated them about various upcoming career prospects in their life. Students were also counseled about their various carrier options available after +2 and various engineering and science courses offered by JUIT were also discussed in detail.

### Some photographs from the event:







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# **Outreach Activity Report**

## **Invited Talk on Alzheimer's Disease**

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

**Activity:** Invited Lecture on World Alzheimer's Day

**Date:** 21-09-2019

**Place of Activity:** Loreto Convent School, Shimla, H.P.

**Target Audience:** Students of High School and higher secondary and teachers of the school

**Number of Participants:** 350+

### **Objectives of the activity:**

1. Student's awareness for the neurological problem Alzheimer's Disease.
2. To make students familiar with new and emerging fields of studies such as Bioinformatics and Biotechnology and various research domains in these areas.

**Faculty:** Dr. Tiratha Raj Singh, Associate Professor, Department of BT and BI.

**Students:** Mr. Rohit Shukla (PhD scholar) and Ms. Aakriti Chauhan (BTech student), Department of BT and BI.

Dr. Tiratha Raj Singh delivered a talk on Alzheimer's disease (AD). The purpose was to introduce school students with the recent problems related to neurological disorders. As it was World Alzheimer's Day so it was also important to discuss about AD with the students and teachers of the school. It was an interactive session and students enjoyed the learning towards brain, neurons and AD. It was also told to students that older people are mostly affected by this disease and therefore we need to take care of our grandparents for the same. It was also mentioned that care is the most important component for AD patients management. Students were also counseled about their various career options available after +2 and course offered by JUIT were also discussed in detail.

Some photographs from the event:







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### **Student and Faculty Visit from Pinegrove School Dhrampur Solan**

A group of 27 students and 3 teachers visited Jaypee University of Information Technology on Sept 13 2019. This visit was facilitated as part of outreach program of Jaypee University Wanknaghat. Dr Anil Kant, Dr Vijay Kumar Garlapatti and team of PhD scholars consisting of Mr Deepak, Arvind, Neha and Swati coordinated the activities during this visit. An overview of University and its' academic programs was provided by Prof. Sudhir Kumar. The students were taken in two groups to different laboratories of Department of Biotechnology and Bioinformatics, Computer Science Engineering, Electronic and communication Engineering, and Civil Engineering. The faculty incharge and PhD scholars showcased the facilities available and major research activities going on in respective labs. Besides this students also visited the biogas reactor installed in the campus and learnt about its' design and working to convert kitchen waste into biogas. Lunch was served to visitors at Annapurna and feedback was taken about the visit.





**Loreto Convent School (Tara Hall) visited Jaypee University of Information Technology, Wagnaghat.**

An exposure visit of class XI and XII students of Loreto Convent School Tara Hall was organized on May 31<sup>st</sup> 2019 to Jaypee University of Information Technology, Wagnaghat. With the guidance of Sister Nirmala – Principal Tara Hall School, 110 students along with two teachers – Dr. Anu Gupta and Mrs. Priyanka Nag visited the Jaypee University Campus. The exposure visit was coordinated by the Prof. Sudhir Kumar of Jaypee University.

All the Students were guided by research scholars to the respective laboratories for demonstration and interaction with the resource persons of department of Biotechnology & Bioinformatics, Electronics and Communication Engineering, Computers, Civil Engineering, Physics and Material Science. The students were given an insight about the advances in the field of genomics, bioinformatics, infectious diseases, tissue culture, waste management, robotics, IT and construction technologies. During interaction; students shown keen interest by asking valuable question.

This exposure visits helped the students to understand the ongoing research activities in Jaypee University. These visits provide awareness about variety of fields in science and engineering and make the students capable for decision making for their career. These visits are a continuous feature of the Jaypee University under their Education and Public Outreach Program.





# लॉरेटो कान्वेंट स्कूल शिमला के छात्रों ने किया जेपी विवि का एक्सपोजर विजिट



**मुकेश कुमार-सोलन**

जेपी यूनिवर्सिटी ऑफ इन्फोरमेशन एंड टेक्नोलॉजी वाकनघाट में लॉरेटो कान्वेंट स्कूल तारा हाल शिमला के जमा एक व जमा दो के विद्यार्थियों के लिए एक्सपोजर विजिट का आयोजन किया गया।

स्कूल प्रिन्सीपल सिस्टर निर्मला के मार्गदर्शन व अध्यापिकाओं डा. अनु गुप्ता व प्रियंका नाग की देखरेख में 110 विद्यार्थियों ने जेपी यूनिवर्सिटी के कैंपस का भ्रमण किया। इस एक्सपोजर विजिट को जेपी विवि के प्रोफेसर सुधीर कुमार ने को-आर्डिनेट किया।

भ्रमण के दौरान विद्यार्थियों को विभिन्न विभागों में ले जाया गया। इनमें बायोटेक्नोलॉजी एंड बायोइंफोरमैटिक्स, इलेक्ट्रॉनिक्स एंड कम्यूनिकेशन इंजीनियरिंग, कम्प्यूटर्स, सिविल इंजीनियरिंग, फिजिक्स एंड मैटीरियल साइंस शामिल हैं।

**दिव्य हिमाचल**

दिव्य हिमाचल

Sun, 02 June 2019

<https://epaper.divyahimachal.com/c/40011295>



## **Details of PALAMPUR VISIT**

### **Visit to CSIR-Institute of Himalayan Bio-resource Technology, Palampur on 16<sup>th</sup> April 2019**

Students of III<sup>rd</sup> year Biotechnology and Bioinformatics visited to Institute of Himalyan Bio-resource Technology and Himachal Pradesh Agricultural University KV Palampur in month of April 2019. On the first day, students interacted with various scientists in “Division of Biotechnology”, and got an exposure of cutting edge molecular biology technologies in biotechnology. A brief introductory lecture related to the mandate of the institute and medicinal product large scale production was delivered by Dr. Girish Nadda. Major labs visited: Nanobiology Lab, Nutraceuticals lab, Mass spectrometry facility, Natural product chemistry and Process Development division etc.

Students visited to Himachal Pradesh Krishi Vishvavidyalaya, Palampur on 17<sup>th</sup> April 2019 and got information related to biotechnology methods in modern day agriculture for production of various valuable plants.



**A research scholar demonstrating SNP detection technology (Dr. RK Sharma's lab)**









## **Workshop cum Exposure visit to Department of Physics and Materials Science (PMS), JUIT by Govt. Degree College, Solan, HP on 14<sup>th</sup> March, 2019**

A workshop cum Exposure visit was organized by a motivated team of Department of Physics and Materials Science (PMS), Jaypee University of Information technology (JUIT), Wagnaghat, Solan for the 140 students of B.Sc (non-medical) final year from Govt. College Solan. Dr Ragini Raj Singh (Assistant Professor (Senior Grade), PMS) coordinated the whole event. Team was lead by Prof. P.B. Barman, HoD, Department of PMS which includes faculty members Dr. Sunil Khah, Dr. Vineet Sharma, Dr. Pankaj Sharma, Dr. Surajit Hazra and Dr. Ragini Raj Singh. Event started with an inaugural lecture by Dr. P.B. Barman on Nanotechnology while Dr. Rakesh Bajaj from Department of Mathematics talked about Statistics and its applications in real life. Prof. Barman also provide information regarding the courses and different programmes running and will be started in the coming session in the university specially four new M.Sc. programs to be started from July, 2019 in the subjects Bioinformatics, Biotechnology, Physics and Statistics.

After the inaugural lectures, students were divided into four groups and each group sent to Physics labs for taking demonstration in defined time schedules with our distinguished faculties for their practical knowledge enrichment. Conclusion of workshop happened after collecting feedback from students and served them with high tea.

Dr. Pawan Kumar, Dr Deepak Gupta, Associate professors, Dr. Anil Thakur, Assistant professor, Govt. College, Solan organized this trip of students. Support from JUIT administration, Lab staff, research scholars, faculty members of the Department and students for their unconditional support is being acknowledged for making it a successful event. Need

to inform that JUIT is organizing various such events for the school and college level students for the dissemination of scientific and technological innovations and latest updates to keep Himachal students updated and to make them competent enough in this rapidly developing scenario. (News clip of the event and Schedule is attached at the end of document)











Students from Govt College Solan at JUIT campus

News Clip form “Divya Himachal” dated 15.03.2019

## जेपी यूनिवर्सिटी में सांख्यिकी पर बांटी जानकारी

दिव्य हिमाचल न्यूज-सोलन

जेपी यूनिवर्सिटी ऑफ इंफोरमेशन टेक्नोलॉजी वाकनाघाट के फिजिक्स एंड मेटिरियल्स साइंस डिपार्टमेंट की ओर से कार्यशाला का आयोजन किया गया। डा. रागिनी राज सिंह द्वारा कंडक्ट की गई इस कार्यशाला में पीजी कालेज सोलन के बीएससी नॉन मेडिकल अंतिम वर्ष के 140 छात्रों ने भाग लिया। कार्यशाला के दौरान सर्वप्रथम विभागाध्यक्ष प्रो. पीबी बर्मन ने नैनोटेक्नोलॉजी और डिपार्टमेंट ऑफ मैथेमेटिक्स के डा. राकेश बजाज ने सांख्यिकी



पर अपनी जानकारी दी। प्रो. बर्मन ने इस अवसर पर छात्रों को विवि द्वारा आगामी सेशन में चलाए जाने वाले विभिन्न कोर्स व प्रोग्राम के बारे में विस्तार से

बताया। विशेषकर उन्होंने विवि में जुलाई 2019 से आरंभ किए जा रहे नए एमएससी प्रोग्राम की जानकारी दी। उन्होंने बताया कि विवि में बायो इंफोरमेटिक्स,

बायोटेक्नोलॉजी, फिजिक्स व सांख्यिकी विषय पर एमएससी आरंभ की जाएगी। कार्यशाला के दौरान छात्रों को चार ग्रुप में बांटा गया और सभी ग्रुप को विवि की

● कार्यशाला में 140 छात्रों ने लिया भाग

फिजिक्स लैब का भ्रमण करवाया गया और प्रैक्टिकल जानकारी दी गई। इस अवसर पर मौजूद पीजी कालेज सोलन के एसोसिएट प्रोफेसर डा. पवन कुमार व डा. दीपक गुप्ता, असिस्टेंट प्रोफेसर डा. अनिल ठाकुर ने इस तरह की कार्यशाला का आयोजन करने के लिए आभार व्यक्त किया। इस अवसर पर डा. सुनील, डा. विनीत शर्मा, डा. पंकज शर्मा, डा. सुरजीत हाजरा व अन्य उपस्थित रहे।

दिव्य हिमाचल

Fri, 15 March 2019

<https://epaper.divyahimachal.com/c/37625325>



## Exposure Workshop Visit Schedule (14-03-2019)

### JUIT, Wajnaghat

Time	Event	Person	Venue
11:30-12:15	Welcome and Faculty Introduction	All faculty from Department of Physics and Materials Science	LT-3
12:15-12:45	Lectures on 1. Nanotechnology 2. Statistics	Prof. P. B. Barman Dr. Rakesh Bajaj	LT-3
13:00	Lab Visits In Groups	1.Dr. Ragini Raj Singh ( Dipti & Shikha) 2.Dr. Pankaj Sharma ( Ekta & Neha) 3.Dr. Vineet Sharma ( Sanjay & Priyanka) 4. Dr. Surajit Hazra ( Anuradha & Pooja)	1. 1 <sup>st</sup> Floor Physics Lab 2. 2 <sup>st</sup> Floor Characterization Lab 3. 3rd Floor Research Labs & Physics lab 4. Materials Synthesis Lab
15:15	High Tea		Auditorium Corridor
15:45	Departure		



## **Workshop cum Exposure visit to Department of Biotechnology and Bioinformatics JUIT by Govt. Degree College, Solan HP on 7<sup>th</sup> March, 2019**

On 7<sup>th</sup> March 2019, Department of Biotechnology and Bioinformatics, JUIT organised workshop cum exposure visit for 104 students of B.Sc (medical) final year from Govt. College Solan. Dr Hemant Sood (Associate professor, BT&BI) coordinated the workshop by welcoming the students and providing them insight about the future aspects of Biotechnology either for post- graduate studies and for research explorations. HOD, Prof. (Dr) Sudhir Kumar addresses the students by informing about the achievements of JUIT and Department and also provide information regarding the courses and different programmes running and will be started in the coming session in the university. Workshop session started with lecture of Dr Tiratha Raj Singh, Associate professor (BT &BI) about Bioinformatics and its application in medical sciences along with future aspects in India and also in the university along with demonstration of different tools in Bioinformatics lab. In another session students divided in three groups (35 each) and each group sent to Biotechnology labs for taking demonstration in defined time schedules with our distinguished faculties for their practical knowledge enrichment. Dr Rahul Shrivastava, Associate professor (BT &BI ) gave demonstrations on diagnostics in Immunology, Dr Jata Shankar Associate professor (BT &BI) demonstrated about molecular techniques, Dr Hemant Sood Associate professor (BT &BI) demonstrated plant tissue culture techniques for endangered medicinal plants along with Hydroponic system in the glass house. Professor Sudhir Kumar took students to biogas reactor plant and gave demonstration about the working model. Successful culmination of workshop happened after collecting feedback from participants and served with high tea. Dr Rajender Prakash, HOD Botany and Dr Banita, Assistant professor, Govt. College Solan, especially JUIT administration, staff, research scholars, faculty members of the Department and students are deeply acknowledged for their unconditional support. **(Schedule Pic and News paper coverage attached )**





**Welcome address in LT3 at the workshop to the Students from Govt College Solan**



**Lecture in LT3 and demonstration of techniques in Biotechnology Labs**





**Demonstration at site of Biogas reactor in JUIT campus**



**Group photograph of participants of Govt Degree College with BT&BI faculty**

**Schedule of Workshop cum Exposure visit to Department of Biotechnology and Bioinformatics  
JUIT by Govt. Degree College, Solan HP on 7<sup>th</sup> March, 2019**

<b>Time slots</b>	<b>Name of Resource Person</b>	<b>Group (1,2 and3) *Each Group has 40 students (120 students)</b>	<b>Demonstration/ Practical session in the respective labs</b>
<b>10:00 - 10:55am</b>	<b>Prof. Sudhir and Dr Hemant</b>  Dr Tiratha Raj Singh (Bioinformatics)  Rohit (PhD scholar)	<b>All groups</b>	<b>Welcome in LT3</b>  Followed by lecture on Bioinformatics: Applications in medical science and vedio of JUIT  <b>LT3</b>
11:00 -11:25 11:30 -11:55 12:00 – 12:25	Dr. Rahul Shrivastava (Biotechnology), Ayushi (Ph.D. scholar)	Gp1  Gp3  Gp2	Antigen and Antibody based diagnostic techniques  <b>(Food Lab)</b>
11:00 -11:25 11:30 -11:55 12:00 – 12:25	Dr. Hemant (Biotechnology), Rolika Gupta (Ph.D. scholar )	Gp3  Gp2  Gp1	Practical Demonstration of Plant Tissue Culture Techniques  <b>(Plant Tissue Culture Lab )</b>
11:00 -11:25 11:30 -11:55 12:00 – 12:25	Dr Jata Shankar(Biotechnology) Sonia( Ph.D. scholar)	Gp2  Gp1  Gp3	Molecular Biology: Demonstration on PCR, Restriction Enzymes, Gel electrophoresis  <b>(Genomics Lab)</b>
	Mr Deepak (PhD scholar)	Photography	
<b>12:30 pm</b>	Mr Ismail	All student groups, faculty,staff and student group cordinators	Tea and Group photograph (Orange Shelter)
<b>1:00 pm</b>	Dr Sudhir Kumar,(HOD) and Karam Das (Assistant) and Pooja (Ph D Scholar)	All Groups	<b>Practical Demonstration of Biogas Reactor at temple Site and feedback collection</b>
<b>1:30 pm</b>	Departure from temple site to Waknaghat via buses		

**\*Student group coordinators:** Kritika and Anubhavi(gp1) Taniya and Mritunjay (gp2) Diksha and Himalaya(gp3) and will be associated with each group respectively for pick up and drop to buses and guiding to labs for demonstration.



# जेपी यूनिवर्सिटी में 104 छात्रों को टिप्स

दिव्य हिमाचल ब्यूरो-सोलन

जेपी यूनिवर्सिटी के जैव प्रौद्योगिकी विभाग और जैव सूचना विज्ञान विभाग द्वारा डिग्री कालेज सोलन के बीएससी (मेडिकल) अंतिम वर्ष के 104 छात्रों के लिए कार्यशाला का आयोजन किया। डा. हेमंत सुद (एसोसिएट प्रोफेसर, बीटी एंड बीआई) ने छात्रों का स्वागत करते हुए और स्नातकोत्तर अध्ययन और अनुसंधान अन्वेषणों के लिए जैव प्रौद्योगिकी के भविष्य के पहलुओं के बारे में उन्हें जानकारी प्रदान की। एचओडी, प्रो. सुधीर कुमार जेयुआईटी और विभाग की उपलब्धियों के बारे में बताकर छात्रों को संबोधित किया और पाठ्यक्रमों और विभिन्न कार्यक्रमों के बारे में जानकारी दी



और विश्वविद्यालय में आगामी सत्र में शुरू किया जाएगा। कार्यशाला सत्र की शुरुआत डा. तीरथ राज सिंह, एसोसिएट प्रोफेसर (बीटी एंड बीआई) के बायोइंफॉर्मेटिक्स के बारे में और भारत में भविष्य के पहलुओं के साथ-साथ चिकित्सा विज्ञान में इसके आवेदन के साथ-साथ बायोइनफॉर्मेटिक्स लैब में विभिन्न उपकरणों के प्रदर्शन के

साथ हुई। एक अन्य सत्र में छात्रों को तीन समूहों (35 प्रत्येक) में विभाजित किया गया है और प्रत्येक समूह को उनके व्यवहारिक ज्ञान संवर्द्धन के लिए हमारे वशिष्ठ संकायों के साथ परिभाषित समय कार्यक्रम में प्रदर्शन करने के लिए जैव प्रौद्योगिकी प्रयोगशालाओं में भेजा गया है। डा. राहुल श्रीवास्तव, एसोसिएट प्रोफेसर (बीटी एंड

बीआई) ने इ यूनोलॉजी में डायग्नोस्टिक्स पर जानकारी दी। डा. जटा शंकर एसोसिएट प्रोफेसर (बीटी एंड बीआई) ने आणविक तकनीकों के बारे में बताया। डा. हेमंत सुद एसोसिएट प्रोफेसर (बीटी एंड बीआई) ने लुप्तप्राय औषधीय पौधों के लिए संयंत्र ऊतक संस्कृति तकनीकों के बारे में बताया। कांच के घर में हाइड्रोफोनिक प्रणाली के विषय में जानकारी प्रदान की गई। इस दौरान प्रो. सुधीर कुमार छात्रों को बायोगैस रिएक्टर प्लांट में ले गए और काम के मॉडल के बारे में ज्ञान बांटा। डा. राजेंद्र प्रकाश, एचओडी बॉटनी और डा. बनिता, सहायक प्रोफेसर डिग्री कालेज सोलन भी इस मौके पर मौजूद रहे और सभी ने इस कार्यशाला की सराहना की।





## ONE DAY WORKSHOP

ON

## BIOINFORMATICS, BIOTECHNOLOGY AND PHYSICS EXPERIMENTS

Organized by

**St. Bede's College Shimla**

(NAAC Re-Accredited 'A+' College)

&

**JAYPEE UNIVERSITY OF INFORMATION  
TECHNOLOGY, WAKNAGHAT**

**Date : 28<sup>th</sup> February, 2019**

**Time : (10 A.M –4.00 P.M)**

### Patron

Dr. Sr. Beena John

Principal, St. Bede's College Shimla

### Convener

Dr. Shramja Munjal

Associate Professor & Head –

Department of Botany

St. Bede's College Shimla

(Mob)9418477011

E.mail : shramja@gmail.com

### Convener

Dr. Sudhir Kumar

Professor & Head - Department of  
Biotechnology and Bioinformatics

JUIT, Waknaghat

(Mob) 9805627899

E.mail : sudhir.syal@juit.ac.in

### Target Audience for the Seminar

- ❖ Undergraduate science students
- ❖ Postgraduate science students
- ❖ Any body who loves science

**NOTE: No registration fee will be charged**

## **One Day Workshop on ‘National Science’ Day 28-02-2019 at St. Bede’s College, Shimla**

On 28 February 2019, ‘National Science Day’ with the theme ‘**Science for the People and the People for Science**’ – a One Day Workshop was organized by St. Bede’s College Shimla. The workshop was conducted by the resource persons from Departments’ of - Biotechnology & Bioinformatics and Physics & Materials Science, JUIT, Waknaghat.

About 150 students of B.Sc (medical and non-medical), and M.Sc. (Microbiology and Botany) streams participated in the workshop. The main objective of the workshop was to educate and motivate students for exploration of different arenas in science, so that they may pursue a research oriented career in area of their interest; along with showcasing the strength of Japye University in research and academics.

The workshop started with the welcome note of Dr. Shramja munjal and followed by the lecture of Dr Tiratha Raj Singh, (Associate professor, BTBI) about Bioinformatics and its application in medical sciences along with future aspects in India and also in the University. For students from medical and non-medical streams, separate sessions were conducted thereafter. He also provided information regarding the courses and different programmes running and will be started in the coming session in the University.

For students from non-medical stream a talk on the topic ‘Recent Trends in Nanotechnology’ was delivered by Dr. Ragini Raj Singh (Assistant Professor, PMS) on new aspects of Nanoscience. Dr. Sanjiv Tiwari (Assistant Professor, PMS) delivered a talk on ‘School Level Physics’ with the theme ‘Science for people and the people for science’. Dr. Pankaj Sharma (Associate professor, PMS) interacted with the student in the lab session and answered the scientific queries of students related to basic principles of physics.

For students from medical stream, students were divided into four groups (30 each) and each group sent to different labs for practical demonstrations and hands-on-experience conducted by faculty members and PhD scholars from JUIT. Prof. Sudhir Kumar gave demonstration about the working model of biogas reactor and KOH string test. Dr Rahul Shrivastava (Associate Professor, BTBI) gave demonstrations on diagnostic methods with concepts in immunology; Dr Jata Shankar (Associate Professor, BTBI) demonstrated about molecular techniques used in science research, Dr Hemant Sood (Associate Professor, BTBI) demonstrated and briefed about plant tissue culture techniques for endangered medicinal plants along with and secondary metabolites production for their knowledge enrichment.

The event was arranged by science fraternity from St. Bede’s college in a perfect manner for the successful completion of the event. St. Bede’s College, Shimla, administration, Coordinators from St. Bede’s College, Shimla, JUIT administration, staff, research scholars, faculty members of the Department are deeply acknowledged for their unconditional support. Overall the event was fruitful and interactive for everyone who attended it whether students or teachers. (Schedule and news paper clip appended).

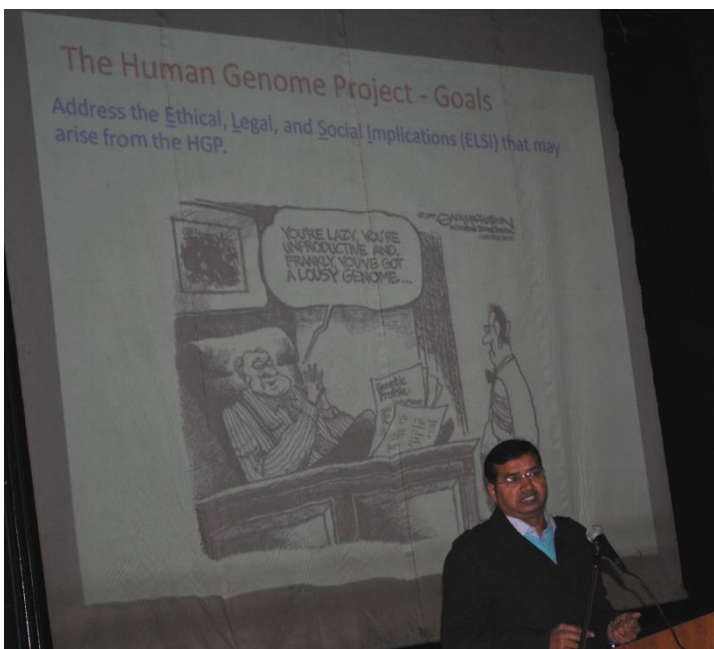


## Schedule of One Day Workshop - St. Bede's College Shimla - 28 Feb. 2019

*Conducted by*

**Department of Biotechnology & Bioinformatics and Department of Physics and Materials Science JUIT,  
Waknaghat**

<b>Date &amp; Time 28.02.2019</b>	<b>Name of Resource Persons, Staff members and PhD Scholars</b>	<b>Demonstration/ Practical session</b>
<b>9.30 – 10.00 AM</b>	St. Bede's and JUIT Team	Inauguration and Overview about Workshop
<b>10.00-10:40 AM  For Medical and Non-medical Students</b>	Dr. Tiratha Raj Singh – Inaugural Lecture Rohit ( Ph.D. Scholar)	Bioinformatics: Applications in medical science like Alzheimer's disease and cancer.
<b>10.50 – 1.00 AM  For Non- Medical Students</b>	Dr. Ragini Raj Singh & Dr. Sanjiv Tiwari, Dr. Pankaj Sharma, Ravendra Kumar Tiwari - Lab. technician (Physics and Material Science)	Hands on experiments on magnetism, optics and recent trends in nanotechnology
<b>Each batch will be 30-35 students (4-5 batches)  10:50-1:00 AM  For Medical Students</b>	<b>Parallel Demonstration /Practical and Explanatory sessions (Biotechnology)</b>	
	Dr Sudhir Kumar, Ms Pooja (Ph.D. Scholar), Mr. Karam Das	Practical Demonstration of Biogas Reactor: Its fabrication, working and utility, KOH string test
	Dr. Rahul Shrivastava, Ayushi (Ph.D. Scholar), Deepak (Ph.D. Scholar)	Antigen and Antibody based diagnostic techniques
	Dr. Jata Shankar, Ms. Sonia (Ph.D. Scholar)	Molecular Biology: Demonstration on PCR, Restriction Enzymes, Gel electrophoresis
	Dr. Hemant Sood, Rolika Gupta (Ph.D. Scholar)	Plant Tissue Culture: Demonstration of techniques for carrying out micropropagation of ornamental and medicinal plants
<b>1:00- 2:00PM</b>	<b>Lunch Break</b>	
<b>2:00-3:30PM For Medical Students</b>	<b>Parallel Demonstration /Practical and Explanatory sessions (Biotechnology)</b>	
<b>3:30-4:00 PM</b>	<b>Feedback from the participants</b>	





# सेंट बीड्स में जैव सूचना विज्ञान पर व्याख्यान

दिव्य हिमाचल ब्यूरो-सोलन

राष्ट्रीय विज्ञान दिवस के अवसर पर शिमला के सेंट बीड्स कालेज में जेपी विश्वविद्यालय के सूचना प्रौद्योगिकी, वाकनाघाट, सोलन से एक टीम द्वारा कार्यशाला का आयोजन किया गया था। टीम का नेतृत्व प्रो. सुधीर कुमार, एचओडी, जैव प्रौद्योगिकी विभाग और जैव सूचना विज्ञान विभाग ने किया। इसमें डा. तीरथ राज सिंह, डा. राहुल श्रीवास्तव, डा. हेमंत सूद और बीटी और बीआई विभाग के डा. जटा शंकर शामिल हैं। भौतिकी विभाग से डा. पंकज शर्मा, डा. रागिनी राज सिंह और डा. संजीव तिवारी भी मौजूद रहे। कार्यक्रम की शुरुआत डा. तीरथ

राज सिंह द्वारा मेडिकल और गैर-मेडिकल छात्रों के लिए जैव सूचना विज्ञान पर एक व्याख्यान के साथ हुई। डा. रागिनी राज सिंह ने नैनो टेक्नोलॉजी पर बात की जबकि डा. संजीव तिवारी ने दैनिक जीवन में बुनियादी विज्ञान समस्याओं के बारे में चर्चा की। प्रयोगशाला के प्रदर्शनों को भौतिकी और जैव प्रौद्योगिकी प्रयोगों पर अन्य संकाय सदस्यों द्वारा दिया गया था। गौर हो कि जेपी यूनिवर्सिटी हिमाचल के छात्रों को विकासशील परिदृश्य में पर्याप्त रूप से सक्षम बनाने के लिए वैज्ञानिक और तकनीकी नवाचारों और नवीनतम अपडेट के प्रसार के लिए स्कूल और कालेज स्तर के छात्रों के लिए कई ऐसे आयोजन कर रहा है।

दिव्य हिमाचल

देवता का अर्थ है देवता

Sat, 09 March 2019

<https://epaper.divyahimacha>





## **Awareness and Exposure Visit of Farmers For Their Socio-economic Improvement To JUIT,Waknagaht**

**Visit of farmers organised at JUIT in collaboration with DST-SYST Funded Project On “Socio-Economic Upliftment of High Altitude Farmers of Himachal Pradesh Through Transfer of Micropropagation Technologies for High Value Medicinal Herbs” On 25<sup>th</sup> and 26<sup>th</sup> December,2018**

**Coordinator: Dr. Hemant Sood**

Five farmers of The Phati Jana Cooperative Agriculture Service Society, Village Archandi, Kullu of Himachal Pradesh visited Department of Biotechnology and Bioinformatics for Awareness and Exposure visit for improving their socioeconomic status and exploring future avenues for themselves and for their society members. They have reached JUIT on 25<sup>th</sup> December and in the evening media preparation was carried out for demonstration of plant tissue culture techniques. On 26<sup>th</sup> they were informed about basics of plant tissue culture and different ways of carrying out micropropagation of medicinal plants. They were demonstrated with plant tissue culture techniques in Plant Tissue Culture Lab of the Department of BT &BI. Afterwards they have carried out transplantation of tissue culture plants in the glass house of the department. They were taken to High end instrumentation lab where they were informed about quantification of medicinal compounds for the quality assurance of medicinal plants. They have visited other labs and finally taken to Biogas plant near mess area, where Mr Karam Das has provided the information about the digester and modes of producing Biogas with high efficiency protocols. Farmers were highly amazed and have quite satisfying feedback with this exposure visit and they requested for summer trainings. Dr Hemant Sood, Associate professor in the Department of BT&BI, Jaypee University Of Information Technology, Waknaghat has coordinated this visit along with Rolika Gupta(PhD Scholar). HOD & Professor (Dr) Sudhir Syal and JUIT administration and DST were deeply acknowledged for this visit.(Details of farmers on the last page)



**Farmers at JUIT Campus and in the Glasshouse of Department of BT&BI**



**Dr Hemant Sood explaining and demonstrating micropropagation techniques to farmers**



**Demonstration of Hardening and Transplantation of Tissue Cultutre Plants to field like conditions**

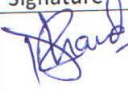






**High end Instrumentation lab and Explanation about Biogas Plant at JUIT**



List of farmers Awareness and Exposure Visit of Farmers for Socio-economic Improvement to Plant Tissue Culture Lab of JUIT Waknaghat from Archandi ,Kullu on 25<sup>th</sup> and 26<sup>th</sup> December 2018

Archhandi ,Kullu

S. No.	Name	Father's Name	Address	Phone	Signature
1.	Mod Chand Thakur	Ved Ram Thakur	Vill. Sharam P.O. Archandi Distt. Kullu H.P.	98165 08756	
2.	Ved Ram Thakur	Late sh. Gautam	Vill Hinni P.O. Laram kelo Distt. Kullu (H.P.) 175104	82190 19432	
3.	Sata Ram	Sh. Pune Ram	Vill. Sharam P.O. Archandi Distt. Kullu H.P.	98058 09090	
4.	Bablu Thakur	Sh. Huleam Chond	Vill. Passley P.O. Archandi Distt. Kullu	98171 66770	
5.	Kishor Kumar	Sh. Hukam Singh	Vill. Shala P.O. Shiah Distt. Kullu	98054- 98034	
6.					



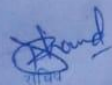
## दी फाटी जाना कृषि सेवा सहकारी सभा सीमित

गांव व डा० अरछण्डी, त० व जिला कुल्लू (हि०प्र०)

प्रस्ताव सं०

दिनांक 28/12/2018

कुल्लू जिला से किसान एवं वागवान बन्धुओं का एक समूह 25 तथा 26 दिसंबर, 2018 को JAYPEE UNIVERSITY OF Information Technology में औषधि पौधों और जानकारी प्राप्त करने गया। 25 दिसंबर को सायं समूह ने MOKSH HOTEL में शीनर किया। 26 दिसंबर, 2018 को ज्ञान, जागरूकता करने के बाद हम सभी ने डा० हेमन्त सूद जी के मार्गदर्शन में विश्वविद्यालय के बारे में पूरी जानकारी प्राप्त की। औषधि पौधे उगाने और विशेष प्रशिक्षण एवं मार्गदर्शन प्राप्त किया। डा० सूद ने प्रयोगशाला में Practical कराने औषधि पौधों और जानकारी दी। साथ ही वायोजस संयंत्र बारे भी जानकारी प्राप्त की। इस प्रशिक्षण से हम सभी वागवानों ने अति आनंद तथा खुशी महसूस किया। आशा करते हैं कि हमें भविष्य में भी मार्गदर्शन एवं सहयोग मिलता रहेगा। बल्लू करने के बाद हमारा समूह उत्सहित होकर घर की ओर निकल पड़े। हम सभी JAYPEE UNIVERSITY एवं डा० हेमन्त सूद का हार्दिक आभार व्यक्त करते हैं।



गोपाल  
दी फाटी जाना कृषि सेवा सहकारी सभा सीमित  
गांव व डा० अरछण्डी, त० व जिला कुल्लू (हि०प्र०)  
दिनांक 28/12/2018

भवदीय

- (1) गूल चन्द (2) लबल  
(3) सीताराम (4) वेद राम (5) मिश्र

## One Day Workshop on Biotechnological Techniques

Department of Biotechnology and Bioinformatics Jaypee University of Information Technology Waknaghat, Solan and Centre of Excellence, Govt. College, Sanjauli, Shimla jointly organized one day workshop on “Biotechnological Techniques” at Govt. College Sanjauli on 15.12.2018.

The main objective of the workshop was to make B.Sc (medical) students and faculty members, aware of Biotechnological Techniques and to showcase the strength of Jaypee University in this area. Dr Anil Kant, From JUIT & Dr. Anil Kumar Thakur from Govt. College Sanjauli coordinated the event. Prof. C. B. Mehta, Principal, Govt. College Sanjauli inaugurated the workshop and Prof. Sudhir Kumar presented the overview about the workshop. This was followed by parallel practical-cum-demonstration sessions on different modules of the workshop in which Biotechnological Techniques were demonstrated jointly by the faculty members and PhD scholars from JUIT and Faculty members of Govt. College Sanjauli as per details given below.

Practical Demonstration of Biogas Reactor	Dr Sudhir Kumar, Dr. C. L. Dharma, Ms Pooja, Mr. Karam Das, Dr. Nidhi
Molecular Biology: Demonstration on PCR, Restriction Enzymes, Gel electrophoresis, Plant Tissue culture	Dr. Anil Kant Thakur, Dr. Anil Kumar Thakur, Ms. Soniya, Ms Rolika and Mr. Ismail Siddiqui
Bioinformatics Data base: Retrieval and Analysis	Dr Raghu M. Yennamalli, Arvind, Somlata
Antigen and Antibody based diagnostic techniques	Dr. Rahul Shrivastava, Dr. Meenakshi Sharma, Ms. Ayushi, Mr. Baleshwar Shukla, Ms Shweta







## संजौली कॉलेज में बायोसाइंस विभाग ने किया कार्यशाला का आयोजन

शिमला। संजौली कॉलेज के बायोसाइंस विभाग और जेपी विवि कॉकनाघाट के बायोइफार्मेटिक्स विभाग के साथ मिलकर शनिवार को कार्यशाला का आयोजन किया। कॉलेज प्राचार्य डॉ. सीबी मेहता ने मुख्यातिथि के रूप में शिरकत कर कार्यशाला का शुभारंभ किया। उन्होंने कहा कि हर छात्र कॉलेज में आयोजित की जाने वाली इस तरह की शैक्षणिक गतिविधियों में हर हाल में हिस्सा लें। इससे उनका ज्ञान बढ़ेगा और विषय को लेकर समझ बढ़ती है। कहा कि बायोटेक्नोलॉजी क्षेत्र में भागेदारी बढ़ेगी और छात्र शोध कार्य कर समाज तथा राष्ट्रहित के लिए नई-नई तकनीकों को विकसित कर सकेंगे। कार्यशाला में जेपी यूनिवर्सिटी के प्रो. सुधीर कुमार, डॉ. अनिलकांत ठाकुर, डॉ. राहुल श्रीवास्तव, डॉ. रघु एम चेन्ना माली ने बायो गैस रियेक्टर, पीसी आई और माइक्रोबायोलॉजी का डेमोस्ट्रेशन भी दिया। कार्यशाला में छात्र-छात्राओं को टिशु कल्चर, एंटीबायोटिज और डायग्नोस्टिक तकनीकों के बारे में जानकारी दी। ब्यूरो



# **Outreach Activity Report**

## **Jaypee University of Information Technology**

### **Waknaghat, Solan-173234, H.P.**

**Activity: Microbiology Workshop**

**Date:** 07 December 2018

**Places of Activity:** N.D.P.S.S School Galore at Budhwin, Hamirpur H.P.



**Target Audience:** Students of +1 and +2 and teachers of the school

**Team members:**

**Faculty:** Prof. Dr. Sudhir Kumar, Head of Department of BT and BI

**Ph.D. scholar:** Neha Kumari Department of BT and BI

**The content of the activity:**

-  Lecture by Dr. Sudhir Kumar on the scope and job opportunities in the field of biotechnology and bioinformatics.
-  Lab demonstrations: Hand on microbiologically KOH string test was done with students and teachers.

**The outcome of the activity:**

- The students actively participated in the interactive session as well performed string test for Gram-positive and Gram-negative bacteria successfully. This activity resulted in an increase in their interest in the field of microbiology and biotechnology as evident from their queries.
- The feedback from participants in this activity has been positive. Students ask questions in the interactive session which show their interest and curiosity. A student also emailed the summarized activity of that day in written form which showed their interest and positive attitude in the area of Microbiology and Biotechnology.



Students performing string test



Group photograph with students

Q:- How can we identify the bacteria (gram +ve or gram -ve) without using microscope or stain?

Ans:- To identify the bacteria (gram +ve or gram -ve) without using microscope or stain, take 3% of KOH solution's drop on the slide along with the bacteria culture. If the string form then the bacteria is gram negative and if the string does not form then the bacteria is gram positive. The string forms in the gram negative because on addition of KOH its DNA comes out and the solution becomes viscous, which results in the formation of string. But in gram +ve bacteria the DNA content doesn't come out and no string is formed. This is because there is a difference in the nature of cell wall.

GRAM POSITIVE BACTERIA	GRAM NEGATIVE BACTERIA
i) The bacteria retain purple crystal violet colour after pouring treatment and washing with alcohol	i) The bacteria do not retain crystal violet stain on washing alcohol.
ii) They contain polynucleotides	ii) They contain lipid (70-80%).

\* Limitations of experiment:-

The limitation of this experiment is that we cannot determine the shape of cells of gram +ve and gram negative bacteria.

Q:- Will the string form if both gram +ve and gram -ve cultures are taken together?

Ans:- The string form when the gram +ve culture is less than the gram -ve culture and the string will not form if the gram +ve culture is more than the gram -ve culture.

Write up by a student

A  
REPORT ON  
ACADEMIC INSTITUTION VISIT  
TO  
**Central Research Institute.**  
Kasauli (H.P)-173204



ON 20<sup>th</sup> NOVEMBER 2018  
BY STUDENTS OF  
BIOTECHNOLOGY & BIOINFORMATICS

ORGANIZED BY  
Department of Biotechnology and Bioinformatics  
JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY-  
WAKNAGHAT





Academic institution visit (a part of Industrial visit) was carried out at Central Research Institute Kasauli- H.P on 20<sup>th</sup> November, 2018 especially for third semester student. The purpose of the visit was to make students aware about how various activities related to microbiology, vaccine, antisera and diagnostic reagent production are carried out in Govt. research institution. This was also to provide them feel of biotechnology applications as soon as they start their course.

Central Research Institute (CRI) is a premier research institution dedicated to research in the field of medical and public health, manufacture of vaccines and antisera, human resource development and to act as a national referral centre for public health problems. The contribution of the Institute towards vaccine production during the period of the Second World War for the immunization of troops to keep them fighting, finds no parallel. Recent developments in regulatory requirements and introduction of Schedule M concept in vaccine manufacturing emphasized the need of cGMP compliant infrastructure and processes. Creation of cGMP compliant DPT production facility has made CRI as the first Central Government Institute to have cGMP compliant infrastructure for vaccine production.

Dr. Jitendraa Vashistt, Dr. Abhishek along with 46 students visited the research institute located in Kasauli – H.P. The faculty member had an interaction with CRI Scientists – Dr. Sankhyan , Dr Yashwant and briefed him about the program of the department. The areas were identified for possible collaboration of JUIT-CRI.

Mrs Preet Thakur of CRI guided the JUIT team to the respective laboratory, where an orientation of institution was given by Mrs. Thakur about history and main products developed at CRI. After introduction, all students were divided in two groups of 23 each and were headed by one staff member of respective research lab who helped them to understand the research work going on the respective lab. Students took almost three hour to see complete set of instruments and production facilities of vaccine manufacturing. This was followed by questions of students. The JUIT team appreciated staff member who guided students and answers their queries.



### **Photographs of interaction at CRI Kasauli – H.P**

It is rightly said that “See & know’ is better than ‘read & learn’. Students got real feel of research work after this visit. They got a chance to transfer their theoretical knowledge to practical implications. This will even help students to understand subject matter clearly in future also.

The JUIT team extend our gratitude to the Director of CRI-Kasauli for permission and support they gave to make our visit a success with accomplishment of objective and our HOD Sir, Dr. Sudhir Kumar, Director Sir, Dr. Sameer Dev Gupta and V.C Sir, Dr. Vinod Kumar for arranging this visit for our student.

Thanks & Regards

Dr. Abhishek

Department-Industries Relation Officer

A  
REPORT ON  
ACADEMIC INSTITUTION VISIT  
TO  
**ICAR-Directorate of Mushroom Research.**  
Solan (H.P)-173231



ON 28<sup>th</sup> September 2018  
By Students of  
Biotechnology & Bioinformatics

ORGANIZED BY  
Department of Biotechnology and Bioinformatics  
JAYPEE UNIVERSITY OF INFORMATION  
TECHNOLOGY WAKNAGHAT





Academic institution visit (a part of Industrial visit) was carried out at Mushroom research Center, Solan - H.P on 28<sup>th</sup> September, 2018 especially for B.Tech Biotechnology & Bioinformatics First semester student. The purpose of the visit was to make students aware about how various activities related to mushroom research, cultivation and storage are carried out in Govt. research institution. This was also to provide them feel of biotechnology applications as soon as they start their course. Directorate of Mushroom Research (DMR) is a premier research institution dedicated to research in the field of mushroom crop production, protection, crop improvement and crop nutrition and utilization and to act as a national research centre for mushroom. The Directorate Mushroom Research has made significant contribution in the field of mushroom research and development in the country. By the concerted efforts of the scientist of DMR mushroom productivity in the country has almost doubled while production has registered a six fold increase. Currently DMR is working on collection, identification, conservation and genetic characterization of mushroom germplasm, development of high yielding varieties, improvements in the production technologies of different edible mushrooms, technology developed for newer specialty mushrooms, integrated pest and disease management, post harvest technologies for various mushrooms and imparting trainings to the trainers, entrepreneurs, growers, unemployed youths, women growers etc.

Dr. Abhishek Chaudhary, Dr. Ashok Nadda along with 43 students visited the research institute located in Solan – H.P. The faculty member along with students had an interaction with DMR Director –Dr. V.P Sharma and briefed him about the program of the department. The areas were identified for possible collaboration of JUIT-DMR. Ms. Shailja Verma of DMR guided the JUIT team to the respective laboratory and cultivation fields where an orientation of institution was given by Ms. Shailja Verma about history and main research and products developed at DMR. After introduction, all students were divided in two groups of 22 and 21 each and were headed by one staff member of respective research lab and cultivation fields who helped them to understand the research work going on the respective area.

Students took almost three hour to see complete set of research center and production facilities of mushroom. This was followed by questions of students. The JUIT team appreciated staff member who guided students and answers their queries.



It is rightly said that “See & know’ is better than ‘read & learn’. Students got real feel of research work after this visit. They got a chance to transfer their theoretical knowledge to practical implications. This will even help students to understand subject matter clearly in future also.

The JUIT team extend our gratitude to the Director of DMR-Solan for permission and support they gave to make our visit a success with accomplishment of objective and our HOD Sir, Dr. Sudhir Kumar, Director Sir, Dr. Sameer Dev Gupta and V.C Sir, Dr. Vinod Kumar for arranging this visit for our student.

Thanks & Regards

Dr. Abhishek

Department-Industries Relation Officer

## **Govt. College Sanjauli Student's Educational Tour to JUIT**

On 11<sup>th</sup> September 2018, 47 B.Sc. final year students and Associate Professor Dr Anil Ranuat from Govt. College Sanjauli, Shimla visited JUIT campus and the Department of Biotechnology and Bioinformatics. The students visited the departmental laboratories where they were informed about Plant and Animal tissue culture facilities and research projects. The students had received the overview of molecular techniques, biogas plant and advance equipments like HPLC,GS and Gene gun. They also attended the lecture delivered by Prof. A. S. Ahaluwalia (P.N. Mehra Chair Professor) of Panjab University, Chandigarh. Dr Hemant Sood and Dr Anil Kant along with other staff and students had coordinated the whole campus tour.





## **BL Central Public Senior Secondary School,Shamti,Solan**

On 30<sup>th</sup> August 2018, Dr Hemant Sood and Dr Saurabh Bansal went to B L Central Public Senior Secondary School for delivering lecture on future avenues and prospects of Biotechnology and Bioinformatics . Lecture was delivered for 30 minutes where the students have been informed about biotechnology and bioinformatics. The role of these sciences in research and development along with our day to day lives. We have interacted with teachers and 30 students of higher secondary section of the school. The students were shown with future prospects and many career options in these streams of sciences. We are very thankful to Mr Abhay,Chairperson and Principal of the school for their support.



## Workshop on Cultivation of High Value Medicinal Plant Through Micropropagation Technology

**Organised by JUIT in collaboration with DST-SYST Funded Project On “Socio-Economic Upliftment of High Altitude Farmers of Himachal Pradesh Through Transfer of Micropropagation Technologies for High Value Medicinal Herbs”  
On 7<sup>th</sup> May, 2018 At Archhandi, Kullu, H.P.**

**Coordinator: Dr. Hemant Sood**

On 7<sup>th</sup> May, 2018, one day workshop was organised for farmers skill development and for their socio economic up-liftment at Archhandi, Kullu, by Dr Hemant Sood, Associate professor in the Department of BT&BI, Jaypee University Of Information Technology, Waknaghat. Twenty one farmers from different villages had attended that workshop. In the morning session Dr Hemant Sood had informed the farmers about the cultivation and propagation of different medicinal plants at high altitude. She provided them information about different techniques for growing medicinal plants and provided demonstration of different techniques in their fields.

Mr Vijay Thakur, Department of Cooperation, HP State, Kullu has also informed the farmers about different schemes run by Department of Cooperation, HP State for providing them benefits. The Secretary of The Phati Jana Cooperative Society of Archanddi, Kullu along with farmers from his cooperative society provided us platform to organised this workshop with successful culmination. Feedbacks were collected from the farmers, which motivates for conducting more workshops and hands on training for their betterment and skill development. Students (Anaida, Archit, Satyam and Rhythm) and staff (Mrs Mamta Mishra, Mr Kamlesh and Mr Mahinder) contributed significantly for the successful conduct of the workshop. HOD Professor Sudhir Syal and JUIT administration and DST were deeply acknowledged for the smooth conductance of this workshop.



## Workshop on **Cultivation of High Value Medicinal Plant Through Micropropagation Technology**

Organised by JUIT in collaboration with DST-SYST Funded Project Coordinator: Dr. Hemant Sood

Contact details: 9418689090; 7018227034 [hemant.sood@juit.ac.in](mailto:hemant.sood@juit.ac.in),



**Date: 07/05/2018**

**Venue: ARCHHANDI, KULLU, H.P.**

How could we help you?

- Ways to enhance and manage farm land to increase benefits and reduce input costs
- Ways to increase the quality and yield of plants
- Recognizing micropropagation for socioeconomic benefits
- Hands on plant tissue culture techniques
- Free technical guidance by reputed scientist

What will you finish  
the workshop with?

- Cultivate the endangered medicinal plant
- Learn various plant tissue culture techniques
- Generate your own business / be an entrepreneur
- Linkages with peer farmers or with different cooperative societies
- Hardening of tissue cultured plants for their survival under field conditions

### Session 1 (10 AM - 12 PM)

- Lecture by Dr. Hemant Sood on importance of alternative techniques and technologies for cultivation of medicinal plants
- Interaction with farmers

### Session 2 (2 PM - 5 PM)

- Lecture by Government official from State Cooperative Department
- Hands on training on transfer and hardening of tissue cultured plants

Designed by: Satyam, Rhythm, Archit, Anshika



**Dr Hemant Sood and Mr Vijay Thakur from H. P.State Cooperative Department,Kullu**



**Session with farmers at Archhandi,Kullu**





### Field demonstration to farmers at Archhandi ,Kullu



### Tea break and interactions with farmers



**List of farmers participated in Workshop on Cultivation of High Value Medicinal plants through Micropropagation Technology on 7<sup>th</sup> May,2018 at Archhandi ,Kullu**

<b>S. No.</b>	<b>Name</b>	<b>Father's Name</b>	<b>Place</b>	<b>Phone</b>
1	Kushal Chand	Sh. Him Dutt	Village Hirni	9459841599
2	Leela Devi	Sh Ved Ram	Village Archandi	-
3	Raj Krishan	Sh. Budh Ram	Village Hirni	8894435663
4	Keshav	Sh Dhani Ram	Village Sharan	7018779055
5	Nikhil	Sh Maher Chand	Kullu	9882647119
6	Bablu Thakur	Sh Hukum Chand	Village Parsha	9817166770
7	Kamal Chand	Sh Jagat Ram	Village Hirni	8988810599
8	Naresh Thakur	Sh Anant Ram	Villag Hirni	9805734729
9	RamChand	Sh Lebhu Ram	Archandi	9817682682
10	Karam Chand	Sh Shanu Ram	Village Hirni	9736223552
11	Mehar Chand	Sh Khub Ram	Village Mahili	981787570
12	Harish Kumar	Sh Rimat Ram	Village Sharan	7018388941
13	Padam Singh	Sh Durgu Ram	Village Rumsu,Nagar	9817159306
14	Rajeev Sharma	Sh Jawahar Chand	Village Hirni	9418419795
15	Kapil Dev	Sh Hukum Chand	Village Parsha	9816681891
16	Yog Raj	Sh Yaman Chand	Village hirni	9816324699
17	Baldev Singh	Sh Dola Ram	Village Hirni	9805154035
18	Maher Chand	Sh Daulat ram	Village Sharan	9805203517
19	Mool Chand Thakur	Sh Ved Ram	Village Sharan	9816508756
20	Hukum Chand	Late Shri Daulat Ram	Village Sharan	9817061930
21	Tikam Ram	Sh Chobe Ram	Village Shaker Behar	9816877701



## दी फाटी जाना कृषि सेवा सहकारी सभा सीमित

गांव व डा० अरछण्डी, त० व जिला कुल्लू (हि०प्र०)

प्रस्ताव सं० .....

दिनांक 07/05/2018

This is certify that Dr. Hemant Sood from Jaypee university wamknaghat Solan has provided us tissue cultured plants of 1) Swertia chirayta 2) Dactylisiza Hatagiree 3) Valexione Jatamansi 4) Hieroshiza Kunea along with planting material and further demonstrated techniques for the micropropagation of these plants. She has organised one day workshop for farmers called as "cultivation of medicinal plants for socia-economic upliftment of farmers" sponsored by Department of Science and technology Govt. of INDIA and Jaypee University Solan on 07/05/2018 in which she imparts knowledge about various techniques provide us usuals on training.

Sh. Vijay Kumar, Inspector from Department Co-operative Societies Himachal Pradesh also graced the occasion with his presence and discussed various schemes of co-operative department with the audience.

सचिव

दी फाटी जाना कृषि सेवा सहकारी सभा सीमित  
गांव व डा० अरछण्डी त० व जिला कुल्लू (हि०प्र०)  
पंजी सं० 38 दिनांक 18-11-1950

# दी फाटी जाना कृषि सेवा सहकारी सभा सीमित

गांव व डा० अरछण्डी, त० व जिला कुल्लू (हि०प्र०)

प्रस्ताव सं० .....

दिनांक 04/05/2018

## प्रस्ताव पतिलिपि

आज दिनांक 04 मई, 2018 को प्रातः 10:00 बजे दी फाटी जाना कृषि सेवा सहकारी सभा सीमित की पुनर्गठन समिति की विशेष बैठक प्रधान श्री हीरा लाल की अध्यक्षता में 3/3 कौम से सभा के मातृ प्रातः डिपू में सम्पन्न होकर निम्नलिखित कार्यवाही क्रम में लई गई :-

प्रस्ताव न० 1 Jaypee University Solan से औषधीय पौधे लेने को विचार

यह कि डा० हेमन्त सूद जी की Jaypee University Solan में कार्यरत हैं और औषधीय पौधों पर Research करती हैं। उनसे सभा द्वारा औषधीय पौधे लेने को मार्गदर्शन एवं चर्चा हुई। सर्वसम्मति से विस्तृत विचार विमर्श उपरान्त निर्णय लिया गया कि सभा उनसे निशुल्क निम्नलिखित प्रकार के औषधीय पौधे लेगी व उनके विकसित करने का प्रबन्ध करेगी। सभी सदस्यों को स्वीकार है।

क. पौधों का नाम  
1. Swertia chirayita  
2. Dactyloshiza  
3. Valeriane Jatamansi

क्र०	नाम	पद	हस्ताक्षर भाषा
1	सर्वश्री हीरा लाल	उपधान	अंग्रेजी
2	लाल चन्द I	उपउपधान	हिन्दी
3	लाल चन्द II	क० स०	अंग्रेजी

प्रमाणित किया जाता है कि नकल मुताबिक असल व सही है। जिस कार्यवाही रजिस्टर से ली गई है, रिकार्ड में सुरक्षित है।

AMC  
[Signature]

[Signature]

सचिव  
दी फाटी जाना कृषि सेवा सहकारी सभा सीमित  
गांव व डा० अरछण्डी त० व जिला कुल्लू (हि०प्र०)  
पंजी सं० 38 दिनांक 18-11-1950





Department of Sciences  
& Technology  
Government of India

## कार्यशाला Workshop

Cultivation Of High Value Medicinal Plant Through Micropropagation Technology /

उच्च मूल्य औषाधि पौधों की सूक्ष्म प्रतियोगिकी के द्वारा खेती  
( जेपी सूचना प्रतियोगिकी विश्वविद्यालय तथा विज्ञान एवम प्रतियोगिकी विभाग डी.एस.टी.  
- सी.वाई.अस.टी. भारत सरकार के द्वारा आयोजित )  
तिथि: 07/05/2018 स्थान: अरुणखंड, कुल्लू, हिमाचल प्रदेश

### पुनर्निवेशन Feedback Form

नाम Name - Tikam Ram दूरभाष नंबर Phone No. 9816877701

गांव Village - Shakar Behar

इस कार्यशाला में हिस्सा लेने के लिए श्रुतिया हमें आशा है के हमारे इस प्रयत्न से आपको लाभ अवश्य हुआ होगा कृपया अपने अमूल्य सुझाव दें ताकि हम आपके सुझावों से लाभान्वित हो सकें कृपया हाँ या नां पे निशान लगायें  
Thank you for attending this workshop. Please provide us with your valuable feedback and give us an opportunity to improve. Please tick on Yes or No options.

S.No. क्रमांक	प्रश्न Questions	हाँ/Yes	नां/No
1	कार्यशाला अच्छे से आयोजित की गयी The event was well organized	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	प्रस्तुतकर्ता बेहद स्पष्ट था The presenter was extremely clear	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	प्रस्तुतकर्ता अच्छी तरह तैयार था The presenter was well prepared	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	प्रस्तुतकर्ता/ प्रस्तुतकर्ता को कार्यशाला विषय के बारे में ज्ञान था The presenter had knowledge about the workshop topic	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	प्रस्तुतकर्ता लोगों द्वारा पूछे गए प्रश्नों के उत्तर दे पाया The presenter was responsive to questions	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	प्रस्तुतकर्ता ने दर्शकों का समय बांधे रखा The presenter held the attention of the audience	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7	कार्यशाला आपकी अपेक्षाओं के अनुरूप थी The workshop met your expectations	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	सामग्री आपको शिक्षित करने के लिए पर्याप्त थी The material was sufficient to educate you	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9	क्या आपको इस कार्यशाला से कोई लाभ मिला? Importance/Usefulness of the workshop	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10	क्या आप दोबारा इस तरह की कार्यशाला में हिस्सा लेना पसंद करेंगे? Would you like to attend this particular event again?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

आपको कार्यशाला के बारे में सबसे अच्छा क्या पसंद आया? What did you like the best about the Workshop?

सुझाव Sujhaav : अधिक जानकारी पाने के लिए

अगली बार के लिए कुछ खास सीखना चाहेंगे? Anything particular that you would like to learn next time?





## कार्यशाला Workshop



Cultivation Of High Value Medicinal Plant Through Micropropagation Technology /

उच्च मूल्य औषाधि पौधों की सूक्ष्म प्रादयोगिकी के द्वारा खेती  
( जेपी सूचना प्रादयोगिकी विश्वविद्यालय तथा विज्ञान एवम प्रदयोगिकी विभाग डी.एस.टी  
- सी.वाई.एस.टी. भारत सरकार के द्वारा आयोजित )  
तिथि: 07/05/2018 स्थान: अरुणन्डि, कुल्लू, हिमाचल प्रदेश

### पुनर्निवेशन Feedback Form

नाम Name - अरुण - चन्द दूरभाष नंबर Phone No. 98052-08511

गांव Village - अरुण

इस कार्यशाला में हिस्सा लेने के लिए शक्रिया हमें आशा है के हमारे इस प्रयतन से आपको लाभ अवश्य हुआ होगा कृपया अपने अमूल्य सुझाव दें ताकि हम आपके सुझावों से लाभान्वित हो सकें कृपया हाँ या नां पे निशान लगायें  
Thank you for attending this workshop. Please provide us with your valuable feedback and give us an opportunity to improve. Please tick on Yes or No options.

S.No. क्रमांक	प्रश्न Questions	हाँ/Yes	नां/No
1.	कार्यशाला अच्छे से आयोजित की गयी The event was well organized	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2.	प्रस्तुतकर्ता बेहद स्पष्ट था The presenter was extremely clear	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3.	प्रस्तुतकर्ता अच्छी तरह तैयार था The presenter was well prepared	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.	प्रस्तुतकर्ता/ प्रस्तुतकर्ता को कार्यशाला विषय के बारे में ज्ञान था The presenter had knowledge about the workshop topic	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5.	प्रस्तुतकर्ता लोगों द्वारा पूछे गए प्रश्नों के उत्तर दे पाया The presenter was responsive to questions	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6.	प्रस्तुतकर्ता ने दर्शकों का समय बांधे रखा The presenter held the attention of the audience	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.	कार्यशाला आपकी अपेक्षाओं के अनुरूप थी The workshop met your expectations	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8.	सामग्री आपको शिक्षित करने के लिए पर्याप्त थी The material was sufficient to educate you	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9.	क्या आपको इस कार्यशाला से कोई लाभ मिला? Importance/Usefulness of the workshop	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10.	क्या आप दोबारा इस तरह की कार्यशाला में हिस्सा लेना पसंद करेंगे? Would you like to attend this particular event again?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

आपको कार्यशाला के बारे में सबसे अच्छा क्या पसंद आया? What did you like the best about the Workshop?

सुझाव Sujhaav : अधिकतम ज्ञान के साथ प्रैक्टिकल लिविंग ज्ञान जो कि

अगली बार के लिए कुछ खास सीखना चाहेंगे? Anything particular that you would like to learn next time? हाँ



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## कार्यशाला Workshop

Cultivation Of High Value Medicinal Plant Through Micropropagation Technology /

उच्च मूल्य औषाधि पौधों की सूक्ष्म प्रादयोगिकी के द्वारा खेती  
( जेपी सूचना प्रादयोगिकी विश्वविद्यालय तथा विज्ञान एवम प्रदयोगिकी विभाग डी.एस.टी  
- सी.वाई.एस.टी. भारत सरकार के द्वारा आयोजित )  
तिथि: 07/05/2018 स्थान: अरुण्डि, कुल्लू, हिमाचल प्रदेश

### पुनर्निवेशन Feedback Form

नाम Name - RAJEEV SHARMA दूरभाष नंबर Phone No. 94184-19795

गांव Village - MIRNI

इस कार्यशाला में हिस्सा लेने के लिए श्रुक्रिया हमें आशा है के हमारे इस प्रयतन से आपको लाभ अवश्य हुआ होगा कृपया अपने अमूल्य सुझाव दें ताकि हम आपके सुझावों से लाभान्वित हो सकें कृपया हाँ या ना पे निशान लगायें  
Thank you for attending this workshop. Please provide us with your valuable feedback and give us an opportunity to improve. Please tick on Yes or No options.

S.No. क्रमांक	प्रश्न Questions	हाँ/Yes	नां/No
1.	कार्यशाला अच्छे से आयोजित की गयी The event was well organized	Yes	
2.	प्रस्तुतकर्ता बेहद स्पष्ट था The presenter was extremely clear	Yes	
3.	प्रस्तुतकर्ता अच्छी तरह तैयार था The presenter was well prepared	Yes	
4.	प्रस्तोता/ प्रस्तुतकर्ता को कार्यशाला विषय के बारे में ज्ञान था The presenter had knowledge about the workshop topic	Yes	
5.	प्रस्तुतकर्ता लोगों द्वारा पूछे गए प्रश्नों के उत्तर दे पाया The presenter was responsive to questions	Yes	
6.	प्रस्तुतकर्ता ने दर्शकों का समय बांधे रखा The presenter held the attention of the audience	Yes	
7.	कार्यशाला आपकी अपेक्षाओं के अनुरूप थी The workshop met your expectations	Yes	
8.	सामग्री आपको शिक्षित करने के लिए प्रयाप्त थी The material was sufficient to educate you	Yes	
9.	क्या आपको इस कार्यशाला से कोई लाभ मिला? Importance/Usefulness of the workshop	Yes	
10.	क्या आप दोबारा इस तरह की कार्यशाला में हिस्सा लेना पसंद करेंगे? Would you like to attend this particular event again?	Yes	

आपको कार्यशाला के बारे में सबसे अच्छा क्या पसंद आया? What did you like the best about the Workshop?  
टीशू कल्चर से औषधीय पौधे तैयार करने

सुझाव Sujhaav :

अगली बार के लिए कुछ खास सीखना चाहेंगे? Anything particular that you would like to learn next time?

कै रबेटी के कल के पत्राचार को करे





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## कार्यशाला Workshop

Cultivation Of High Value Medicinal Plant Through Micropropagation Technology /

उच्च मूल्य औषाधि पौधों की सूक्ष्म प्रादयोगिकी के द्वारा खेती  
( जेपी सूचना प्रादयोगिकी विश्वविद्यालय तथा विज्ञान एवम प्रदयोगिकी विभाग डी.एस.टी  
- सी.वाई.एस.टी. भारत सरकार के द्वारा आयोजित )  
तिथि: 07/05/2018 स्थान: अरुण्डि, कुल्लू, हिमाचल प्रदेश

### पुनर्निवेशन Feedback Form

नाम Name - MUKAM Chand दूरभाष नंबर Phone No. 98470-61930

गांव Village - Sharan

इस कार्यशाला में हिस्सा लेने के लिए शुक्रिया हमें आशा है के हमारे इस प्रयत्न से आपको लाभ अवश्य हुआ होगा कृपया अपने अमूल्य सुझाव दें ताकि हम आपके सुझावों से लाभान्वित हो सकें कृपया हाँ या नाँ पे निशान लगायें  
Thank you for attending this workshop. Please provide us with your valuable feedback and give us an opportunity to improve. Please tick on Yes or No options.

S.No. क्रमांक	प्रश्न Questions	हाँ/Yes	नाँ/No
1.	कार्यशाला अच्छे से आयोजित की गयी The event was well organized	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2.	प्रस्तुतकर्ता बेहद स्पष्ट था The presenter was extremely clear	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3.	प्रस्तुतकर्ता अच्छी तरह तैयार था The presenter was well prepared	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.	प्रस्तुतकर्ता/ प्रस्तुतकर्ता को कार्यशाला विषय के बारे में ज्ञान था The presenter had knowledge about the workshop topic	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5.	प्रस्तुतकर्ता लोगों द्वारा पूछे गए प्रश्नों के उत्तर दे पाया The presenter was responsive to questions	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6.	प्रस्तुतकर्ता ने दर्शकों का समय बाँधे रखा The presenter held the attention of the audience	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.	कार्यशाला आपकी अपेक्षाओं के अनुरूप थी The workshop met your expectations	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8.	सामग्री आपको शिक्षित करने के लिए पर्याप्त थी The material was sufficient to educate you	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9.	क्या आपको इस कार्यशाला से कोई लाभ मिला? Importance/Usefulness of the workshop	<input type="checkbox"/>	<input type="checkbox"/>
10.	क्या आप दोबारा इस तरह की कार्यशाला में हिस्सा लेना पसंद करेंगे? Would you like to attend this particular event again?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

आपको कार्यशाला के बारे में सबसे अच्छा क्या पसंद आया? What did you like the best about the Workshop? Lecture was good.

सुझाव Sujhaav : खेती में करके दिखाया जाए

अगली बार के लिए कुछ खास सीखना चाहेंगे? Anything particular that you would like to learn next time? yes (Practical) practical demonstration.





## कार्यशाला Workshop



Cultivation Of High Value Medicinal Plant Through Micropropagation Technology /

उच्च मूल्य औषाधि पौधों की सूक्ष्म प्रादयोगिकी के द्वारा खेती  
( जेपी सूचना प्रादयोगिकी विश्वविद्यालय तथा विज्ञान एवम प्रदयोगिकी विभाग डी.एस.टी  
- सी.वाई.एस.टी. भारत सरकार के द्वारा आयोजित )  
तिथि: 07/05/2018 स्थान: अरुणखंड, कुल्लू, हिमाचल प्रदेश

### पुनर्निवेशन Feedback Form

नाम Name - Mool Chand Thaker दूरभाष नंबर Phone No. 981650 8756  
गांव Village - Sharan

इस कार्यशाला में हिस्सा लेने के लिए श्रुक्रिया हमें आशा है के हमारे इस प्रयतन से आपको लाभ अवश्य हुआ होगा कृपया अपने अमूल्य सुझाव दें ताकि हम आपके सुझावों से लाभान्वित हो सकें कृपया हाँ या नां पे निशान लगायें  
Thank you for attending this workshop. Please provide us with your valuable feedback and give us an opportunity to improve. Please tick on Yes or No options.

S.No. क्रमांक	प्रश्न Questions	हाँ/Yes	नां/No
1.	कार्यशाला अच्छे से आयोजित की गयी The event was well organized	Yes	
2.	प्रस्तुतकर्ता बेहद स्पष्ट था The presenter was extremely clear	Yes	
3.	प्रस्तुतकर्ता अच्छी तरह तैयार था The presenter was well prepared	Yes	
4.	प्रस्तुता/ प्रस्तुतकर्ता को कार्यशाला विषय के बारे में ज्ञान था The presenter had knowledge about the workshop topic	Yes	
5.	प्रस्तुतकर्ता लोगों द्वारा पूछे गए प्रश्नों के उत्तर दे पाया The presenter was responsive to questions	Yes	
6.	प्रस्तुतकर्ता ने दर्शकों का समय बांधे रखा The presenter held the attention of the audience	Yes	
7.	कार्यशाला आपकी अपेक्षाओं के अनुरूप थी The workshop met your expectations	Yes	
8.	सामग्री आपको शिक्षित करने के लिए पर्याप्त थी The material was sufficient to educate you	Yes	
9.	क्या आपको इस कार्यशाला से कोई लाभ मिला? Importance/Usefulness of the workshop	Yes	
10.	क्या आप दोबारा इस तरह की कार्यशाला में हिस्सा लेना पसंद करेंगे? Would you like to attend this particular event again?	Yes	

आपको कार्यशाला के बारे में सबसे अच्छा क्या पसंद आया? What did you like the best about the Workshop?

Demonstration  
सुझाव Sujhaav : इस तरह के पुनः आयोजित करने से कार्यशाला के  
आयोजन के लिए कोई लक्ष्य निर्धारित करने के लिए  
अगली बार के लिए कुछ खास सीखना चाहेंगे? Anything particular that you would like to learn next time?  
हमारी सभा के युवकों के प्रश्नों को जवाब देकर  
इस प्रोजेक्ट पर काम बढ़ाना चाहते हैं, Pls Guide

## **Govt.College Sanjauli,Shimla**

On 28<sup>th</sup> April 2018, Dr Rahul Shrivastva ,Dr Anil Kant and Dr Hemant Sood Associate Professors from the Department of BT& BI(JUIT) along with other faculties, research scholars and non- teaching staff has coordinated the visit of BSc. final year students (23 no.) of the Govt. College Sanjauli,Centre of Excellence, Shimla. The students were accompanied by 4 faculty members. They were taken to the Departmental labs of Biotechnology and Bioinformatics, where interaction with scholars and faculty coordinator were carried out. They were informed about different research projects of the Department. They visited Biogas Plant and HOD, Dr Sudhir Syal has provided all detailed information about the latest interventions carried out for the same. They were informed about different academic and research programmes of the University like B.Tech Biotechnology and Bioinformatics, M.Tech and MSc. in Biotechnology and Bioinformatics. The students took complete JUIT, campus visit and enjoyed the Le Fiestus,2018 celebrations. The informal feedback collected after the interactions with faculty ,staff and students, which were quite positive and enthusiastic. We would like to extend our thanks to the Principal Mrs. Diksha Malhotra, Mrs Manisha Kohli (Associate Professor Botany),Mrs Shivani Kapret (Assistant Professor Zoology and Dr Anil Thakur(Associate Professor Zoology) for the visit to JUIT campus.







**Photos during BT&BI lab visit and interaction at JUIT Campus,Waknaghat**



**ACADEMIC INSTITUTION VISIT TO  
CSIR - Institute of Himalayan Bioresource Technology, Palampur  
& CSK-Himachal Pradesh Agriculture University, Palampur  
Himachal Pradesh – 176062**

An educational /research excursion was organised for the III<sup>rd</sup> year Biotechnology students from 16<sup>th</sup> April, 2018 to 19<sup>th</sup> April 2018. Dr Abhishek and Dr. Jitendraa along with III<sup>rd</sup> year students visited different labs of to Institute of Himalayan Bioresource Technology (IHBT) and CSK-Himachal Pradesh Agriculture University Palampur of Himachal Pradesh which are known for their reputed national level in the area of Himalayan biotechnology research.

The purpose of visit was to educate the students towards various current research activities which have been practised in the premier research labs in government sector. Major visit of labs was done in ‘natural product chemistry and process development’; advance molecular biology lab; plant biotechnology labs and ‘aeroponics & hydroponics labs’. Students were also visited central instrument facility of IHBT where students got a chance of demonstration of state of art biotechnology instruments. During the visit, students interacted with various scientists and discussed the basics of various research programmes in IHBT.





**Photographs of interaction at IHBT and Palampur University**

## **ACADEMIC INSTITUTION VISIT TO Dr. Yashwant Singh Parmar University of Horticulture and Forestry, Nauni, Himachal Pradesh, India**

**Activity:** Educational trip of 4<sup>th</sup> Year students of BT and BI

**Places of Activity:** Dr. Yashwant Singh Parmar University of Horticulture and Forestry, Nauni, Himachal Pradesh, India.

**Event Coordinator(s):** Dr. Ashok Kumar, Assistant Professor (Grade II), Department of BT and BI

Dr. Anil Kant Thakur Associate Professor, Department of BT and BI

**Number of Students:** 38



**Photo 1: B.tech 4<sup>th</sup> year students in the Rose garden of Floriculture department at UHF Nauni Himachal Pradesh.**

### **Purpose of the visit:**

1. Student awareness for new and exciting research activities at UHF Nauni
2. To make students familiar with new and emerging fields and projects running in the lab

An educational trip was organised for the 4<sup>th</sup> year students of Biotechnology students 20<sup>th</sup> April 2018. Dr Ashok Kumar and Dr. Anil Kant along with 4<sup>th</sup> year students visited different labs of Dr. Yashwant Singh Parmar University of Horticulture and Forestry, Nauni, Himachal



Pradesh which are known for their repute at national level in the area of horticulture and forestry.

The purpose of visit was to educate the students towards various current research activities which have been practised in the premier research labs in UHF Nauni. Major visit of labs was done in Toxicology laboratory [lab Head: Dr. S.K. Patyal] Plant Virology lab [lab Head: Dr. Anil Handa]; and plant biotechnology labs in the department of forestry. Students have also visited Rose garden, medicinal plant garden, and Hitech glasshouse.



**Photo 2: B.Tech 4<sup>th</sup> year students in the Medicinal Plant's garden of Forestry department at UHF Nauni Himachal Pradesh.**

Dr. Meenu Sood has given valuable dialogue on medicinal plants and a tour of medicinal plant garden. Dr. Pooja Garla has given lecture on floriculture and development of different varieties of roses and other flowers at UHF Nauni.



**Photo 3: B. Tech 4<sup>th</sup> year students in the lab of Floriculture at UHF Nauni Himachal Pradesh.**



**Photo 4: Lab of Toxicology (Left) and Flouriculture (Right) at UHF Nauni Himachal Pradesh. Dr. S.K. Patyal teaching about the screening and quantification of pesticides in the crops and vegetables. Dr. Pooja Garla showing the ongoing research projects in floriculture laboratory.**



# Outreach Activity Report

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

**Activity:** Science and Engineering

**Date:** 09-04-2018

**Places of Activity:** Govt Vallabh Degree College Mandi, Himachal Pradesh

**Target Audience:** Students of B.Sc. 6<sup>th</sup> semester and lecture of the Govt Vallabh Degree College Mandi

**Place of activity:** Govt Vallabh Degree College Mandi

**Target Audience:** Students of B.Sc. Biotechnology 6<sup>th</sup> semester and faculty of Govt Vallabh Degree College Mandi

**Number of Participants:** 20-25

## Objectives of the activity:

1. Student awareness for new and exciting carrier opportunities and M.Sc. course at JUIT.
2. To make students familiar with new and emerging fields of studies such as Bioinformatics, Biotechnology and Electronics etc.



**Photo taken during visit and Govt vallabh college Mandi, Himachal Pradesh**



**Visiter and Departments:****Faculty:**

1. Dr. Ashok Kumar, Assistant Professor (Grade II), Department of BT and BI

**Content of the activity:****1. Lectures**

Dr. Ashok Kumar interacted with students about Bioinformatics, Biotechnology

Interaction with all faculty, lab staff and students

Distribution of brochures of M.Sc. courses at JUIT Waknaghat to the students and faculty

**Outcome of the activity:**

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.

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.

## **Govt.PG College Solan**

On 4<sup>th</sup> April 2018, Dr Hemant Sood, Associate Professor from the Department of BT/BI and Dr Dheeraj Assistant Professor (Senior Grade) from the Department of Physics, Jaypee University Of Information Technology went to the Govt PG College ,Solan .We had interactions with final year students of BSc medical and non- medical which were 45 in number. We have informed them about different academic and research programmes of the University and provide them insight about different research facilities. We have appraise them about new MSc. programmes of BT/BI, Physics and Statistics which we are going to start in the July18 session. The students are provided with brochures and all the details for the forthcoming admissions .The informal feedback collected after the interactions with faculty ,staff and students, which were quite positive and enthusiastic. We would like to extend our thanks to the Principle Professor Sheela Kapoor of the college and Dr Deepak Gupta for facilitating the event.



# Outreach Activity Report

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

**Activity:** Science and Engineering

**Date:** 20-03-2018

**1. Places of Activity:** Swami Vivekananda Govt. Degree College Ghumarwin

**Target Audience:** Students of B.Sc. 6<sup>th</sup> semester and lecture of the SVGD College Ghumarwin

**Number of Participants:** 60-70 (Chemistry) (70-80 Physics)

**2. Place of activity:** Govt. Post Graduate College Bilaspur, Himachal Pradesh

**Target Audience:** Students of B.Sc. Biotechnology 6<sup>th</sup> semester and lecture of the GPGC Bilaspur

**Number of Participants:** 24-25

**Objectives of the activity:**

1. Student awareness for new and exciting carrier opportunities and M.Sc. course at JUIT.
2. To make students familiar with new and emerging fields of studies such as Bioinformatics, Biotechnology and Electronics etc.

**Team Members and Departments:**

**Faculty:**

1. Dr. Tiratha Raj Singh, Associate Professor, Department of BT and BI
2. Dr. Ragini Raj Singh, Assistant Professor (Senior Grade), Department of Physics and Material Science
3. Dr. Ashok Kumar, Assistant Professor (Grade II), Department of BT and BI





**Photos during visit and interaction with students at SVGDC Ghumarwin, Himachal Pradesh.**

## **Content of the activity:**

### **1. Lectures:**

(i) Dr. Tiratha Raj Singh and Dr. Ashok Kumar interacted with students about Bioinformatics, Biotechnology and Dr. Ragini Raj Singh about Physics, and Statistics, Electronics and Communication and Career Opportunities in these areas.

Interaction with all faculty, lab staff and students.

Distribution of brochures of M.Sc. courses at JUIT Wagnaghat to the students and faculty.

## **Outcome of the activity:**

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.

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. It is anticipated that more such activities in nearby colleges in Himachal Pradesh will definitely produce scientific impact of JUIT towards science and engineering build up.



## **Student and Faculty Visit from Sambalpur University Odisha**

The fourteen M.Sc. students from Department of Biotechnology, Sambalpur University Odisha with two faculty and one staff members visited the JUIT campus as a part of their Institute Visit Program. Dr Anil Kant, Dr. Chittranjan Rout and Prof Sudhir Kumar coordinated the visit. They stayed in the university campus from 27 Feb. to 02 March, 2018. On 28 the Feb 2018 local visit to Shimla was arranged for the visitors. The university provided a bus and two of our BTDD students (Atul and Sakshi) accompanied the guests to Shimla. The students were taken to various Labs. of Biotechnology and Bioinformatics Dept., Computer, and Electronics and Communication Dept. and they also visited Biogas and sewage treatment plant of the University as per following time schedule on 1<sup>st</sup> March 2018. Various research activities, experiments, and working procedures of the facilities were demonstrated. On 2<sup>nd</sup> March Dr Chittaranjan Rout accompanied the visitors to Kandaghat Railway Station to see off for their back journey.

### **ITINERARY OF LAB. VISIT**

<b>LAB</b>	<b>Topics Covered</b>	<b>PhD./M. tech students</b>	<b>Faculty</b>	<b>Technicians</b>
9.30 AM – Lab. Tour – Top floor Biotechnology Labs. – by Dr. Sudhir Kumar, Dr. Anil Kant & Dr. Hemant Sood				
UG 1 (10.00-10.25)	KOH String Test	Ritika Sharma	Dr. Sudhir Kumar	Mr. Ismail
PTC Lab (10.25 – 10.50)	Culturing Technique & Greenhouse	Sanchita Chetanshi	Dr. Hemant Sood	Mrs.Mamta Mishra
10.50 – 11.20 Lab. Tour – Computer and Electronics Lab. – by Dr. Shruti Jain, 11.20 – 11.40 AM High End Instrumentation Lab. and UG Lab.				
Genomics Lab. (11.40 – 12.00 N)	DNA Extraction, PCR, gel electrophoresis	Sonia, Monika	Dr. Jata Shankar Dr. Anil Kant	Mr. Ravikant Sachan
Bioinformatics Lab. (12.00 – 12.30 PM) (FEEDBACK was taken By Dr. Anil, Dr. Abhishek and Tiratha)	Bioinformatics Introduction and scope, Video Clip of JUIT	Ankush	Dr. Tiratha Raj Singh	Mrs. Somlata Sharma
Lab. Tour (12.30 – 1.00 PM) Animal Tissue Culture Lab.- Animal House and Associated Labs. – Dr. Uday, Mr. Vineet and Ms. Deepika				
Lunch: 1.00 pm at Annapurna. Campus Tour – 2.00 pm onwards - by Ismail ( Biogas Plants, STP, Civil Engg. Dept. etc.)				



Group photograph of Juit faculty members with visiting students & faculties of Sambalpur University

A report on  
Academic Institution Visit  
to  
**National Agri-Food Biotechnology Institute**  
Knowledge City, Sector 81, Mohali



on 6<sup>th</sup> Feb 2018  
by Students of B. Tech (Bioinformatics)

Organized by  
Department of Biotechnology and Bioinformatics  
Jaypee University of Information Technology  
Waknaghat, HP





An academic visit was carried out to National Agri-Food Biotechnology Institute (NABI), Sector 81, Mohali on 6<sup>th</sup> Feb 2018 for second and third year bioinformatics students. The purpose of the visit was to expose students to various research activities undertaken in the premier research institution in government sector, and to give students a chance to interact with scientists and students working on cutting-edge biotechnology research. It was also an opportunity for the students to see the latest infrastructure used in the biotechnology sector.

National Agri-Food Biotechnology Institute is the very first food biotechnology institute established by Department of Biotechnology, Government of India. The institute's mandate is to carry out research in agri-food sector and improving nutritional quality through biotechnology research. It's established to become a center of excellence to provide leadership in agri-food research.

I, Dr Narendra Kumar and Ms Sonika Gupta along with 18 students visited NABI located at Sector 81, Mohali. On reaching the institute, we were received by Dr. Kaushik Majumdar; where we briefed him about the Biotechnology and Bioinformatics program of the JUIT.

Dr. Kaushik Majumdar addressed the students and explained major research themes undertaken by the institute which included agricultural biotechnology, food and nutrition biology, development of high yield crops, genomics and computational biology, and nutraceutical for better health.

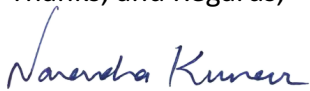
After Dr. Majumdar's address, the students were taken to the instrumentation facility by Mr. Jagdeep Singh, where he showed the students various equipment used in biotechnology research at NABI. Students were shown gas chromatography and liquid chromatography systems and their functions were explained to them. Mr Jagdeep Singh also showed and explained the equipment for high performance thin layer chromatography and particle size separator. Students were then taken for a tour to high performance tissue culture facility. They were shown and explained the purpose of clean air areas fitted with high efficiency particulate air (HEPA) filters and air showers.



We also visited the high-performance computing (HPC) facility in the computational biology laboratory headed by Dr. Srikant Mantri. His staff showed the computer cluster and explained various software running on the machine for the genomics and transcriptomics analysis. The whole tour took some two and half hours and students got a feel for biotechnology and bioinformatics research at the institute. Students benefited from getting an opportunity to relate their theoretical knowledge to practical implications.

The BT and BI department extends our gratitude to the Director, NABI for his permission and support to make this visit possible and achieving our objectives for the students. We thank management of JUIT and Industry Relation Officer (Dr. Abhishek Choudhary) of Department of BT & BI for arranging the visit for our students.

Thanks, and Regards,

  
Narendra Kumar, PhD

Department of Biotechnology and Bioinformatics, JUIT

Coordinator: NABI VISIT

## **GSS Barma Papri, Nahan and Bankala Visit**

Students from GSS Barma Papri, Nahan and Bankala visited Jaypee University of Information Technology, Waknaghat on 18<sup>th</sup> Dec 2017. Students of high secondary section which were 150 in number visited different labs of the Department of BT&BI. They were shown working and non working models of different applied biological sciences.





## **St. Luke's, School Solan Visit**

Dr Hemant Sood has coordinated the visit of 10+2 students from St. Luke's ,Solan on 2<sup>nd</sup> November, 2017 to the university campus as a part of the Department of BT/BI outreach activity. 27 students of 12<sup>th</sup> standard had come to the university, representing both medical and non-medical streams. Students have been taken to biotechnology and bioinformatics lab, computer science & IT, electronics and communication and civil engineering laboratories. They were demonstrated with various experiments in those respective labs for providing future perspectives.



# **Outreach Activity Report**

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

**Activity:** Science and Engineering Workshop

**Date:** 12-10-2017

## **Places of Activity:**

1. DAV Public School, Saraswati Nagar, Rohru, H.P.

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

**Number of Participants:** 65-70

## **Objectives of the activity:**

1. Student awareness for new and exciting career 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. Tiratha Raj Singh, Assistant Professor (Senior Grade), Department of BT and BI
2. Dr. Anil Kant Thakur, Assistant Professor (Senior Grade), Department of BT and BI

3. Dr. Naveen Jaglan, Assistant Professor (Grade-II), Department of ECE

**Lab Staff:**

1. Mr. Ismail, Department of BT and BI
2. Mr. Abhishek, Department of ECE

**Students:**

1. Mr. Vineet Mehta (PhD scholar) Department of BT and BI
2. Mr. Pulkit Anupam Srivastava (BTech student) Department of BT and BI

**Content of the activity:**

1. Lectures
  - (i) Dr. Tiratha Raj Singh and Dr. Anilkant Thakur interacted with students about Bioinformatics, Biotechnology and Dr. Naveen Jaglan about Electronics and Communication and Career Opportunities in these areas.
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 Report appeared in Divya Himachal dated 13/10/2017.

## जेपी विवि ने जगाया अलख



दिव्य हिमाचल ब्यूरो, सोलन

जेपी विश्वविद्यालय द्वारा शिमला जिला के डीएवी स्कूल रोहडू में एकदिवसीय कार्यशाला का आयोजन किया गया। इस कार्यशाला में बच्चों को इंजीनियर टेक्नोलॉजी के बारे में जानकारी दी गई। विश्वविद्यालय द्वारा इससे पहले भी कई स्कूलों में इस तरह की कार्यशाला आयोजित की जाती रही है। इस कार्यशाला में जेपी विश्वविद्यालय से सात लोगों की टीम ने बच्चों को करियर के बारे में बताया गया। कार्यशाला में बच्चों ने बढ़-चढ़ के भाग लिया। इस दौरान बच्चों को

बायोटेक्नोलॉजी, बायो इनफॉर्मेटिक व इलेक्ट्रॉनिक में करियर बनाने के बारे में बताया गया। इस कार्यशाला में डा. तीर्थ राज, डा. अनिल, डा. नवीन ने बच्चों को विस्तारपूर्वक जानकारी दी। डा. तीर्थराज ने बताया कि जेपी विश्वविद्यालय के कुलपति विनोद कुमार विवि के निदेशक प्रो. समीर गुप्ता के मार्गदर्शन से इस तरह की कार्यशाला का आयोजन विभिन्न स्कूलों में किया जा रहा है।

दिव्य हिमाचल

13/10/2017

**Group Photograph of JUIT Team with school Principal, teachers, staff and students:**



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A  
REPORT ON  
ACADEMIC INSTITUTION VISIT  
TO  
**Central Research Institute.**  
Kasauli (H.P)-173204



ON 07<sup>th</sup> October 2017  
BY STUDENTS OF  
BIOTECHNOLOGY

ORGANIZED BY  
Department of Biotechnology and Bioinformatics  
JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY-  
WAKNAGHAT





Academic institution visit (a part of Industrial visit) was carried out at Central Research Institute Kasauli- H.P on 07<sup>th</sup> October, 2017 especially for third semester student. The purpose of the visit was to make students aware about how various activities related to microbiology, vaccine, antisera and diagnostic reagent production are carried out in Govt. research institution. This was also to provide them feel of biotechnology applications as soon as they start their course.

Central Research Institute (CRI) is a premier research institution dedicated to research in the field of medical and public health, manufacture of vaccines and antisera, human resource development and to act as a national referral centre for public health problems. The contribution of the Institute towards vaccine production during the period of the Second World War for the immunization of troops to keep them fighting, finds no parallel.

Recent developments in regulatory requirements and introduction of Schedule M concept in vaccine manufacturing emphasized the need of cGMP compliant infrastructure and processes. Creation of cGMP compliant DPT production facility has made CRI as the first Central Government Institute to have cGMP compliant infrastructure for vaccine production.

Dr. Sudhir Syal, Dr. Udaybhanu along with 32 students visited the research institute located in Kasauli – H.P. The faculty member had an interaction with CRI Director –Dr. Ajay Kumar Thalan and briefed him about the program of the department. The areas were identified for possible collaboration of JUIT-CRI.

Mrs Preet Thakur of CRI guided the JUIT team to the respective laboratory, where an orientation of institution was given by Mrs. Thakur about history and main products developed at CRI.

After introduction, all students were divided in two groups of 16 each and were headed by one staff member of respective research lab who helped them to understand the research work going on the respective lab.

Students took almost three hour to see complete set of instruments and production facilities of vaccine manufacturing. This was followed by questions of students. The JUIT team appreciated staff member who guided students and answers their queries.



It is rightly said that “See & know’ is better than ‘read & learn’. Students got real feel of research work after this visit. They got a chance to transfer their theoretical knowledge to practical implications. This will even help students to understand subject matter clearly in future also.

The JUIT team extend our gratitude to the Director of CRI-Kasauli for permission and support they gave to make our visit a success with accomplishment of objective and our HOD Sir, Dr. Sudhir Kumar, Director Sir, Dr. Sameer Dev Gupta and V.C Sir, Dr. Vinod Kumar for arranging this visit for our student.

Thanks & Regards

Dr. Abhishek

Department-Industries Relation Officer

### **Report on the JUIT visit to DAV Rampur, Himachal Pradesh**

A science and engineering workshop activity by JUIT was held in DAV Rampur, Shimla District on 1<sup>st</sup> September, 2017. JUIT exhibited their mobile lab representing the departments of Biotechnology and Bioinformatics, Civil Engineering, and Electronics and Communication Engineering for the benefit of school students. Dr. Rahul Shrivastava explained about Biotechnology and its prospects. Followed by Dr. Ragothaman Yennamalli explained Bioinformatics and its scope in future. Dr. Naveen Jaglan explained about Electronics and Communication Engineering and its wide application. The talk had a short video demonstration of JUIT campus and its facilities. Dr. Gyani Jail Singh and Dr. Anirban from Civil Department showcased the capabilities and expertise of their department.

Mr. Ravi Kant and Mr. Raman Singh demonstrated experiments of microbial staining, use of digital pH meter, handling of micropipettes, and plant tissue culture. Mr. Dheerendar Singh demonstrated the robotics applications, which were developed by JUIT students from Electronics and Communication Engineering.

#### **Response:**

There were 50 students who listened to the lectures and visited the mobile lab and asked questions about Biotechnology and Bioinformatics, Civil Engineering, Electronics and Communication Engineering, and about JUIT, its admission process and other details. Also, PGT and TGT teachers enquired about the university and the courses we offered.

Some photographs of the event are below.





## एक नज़र

### दत्तनगर डीएवी के छात्रों ने बनाए मॉडल

रामपुर बुशहर — डीएवी स्कूल दत्तनगर में जेपी विश्वविद्यालय द्वारा एकदिवसीय कार्यशाला आयोजित की गई। कार्यशाला में विज्ञान एवं प्रौद्योगिकी के बारे में छात्र-छात्राओं को अहम जानकारी से अवगत करवाया गया। कार्यक्रम की अध्यक्षता स्कूल के प्रधानाचार्य विजय वर्मा ने की। जेपी विश्वविद्यालय से आई टीम के डा. राहुल श्रीवास्तव ने छात्रों को बायोटेक्नोलॉजी विषय के बारे में विस्तार से जानकारी दी। इसके अलावा डा. रघुथमन ने बायो इन्फ्रामेटिक्स, डा. नवीन ने इलेक्ट्रॉनिक्स, डा. ज्ञानी जैल सिंह और उनके सहयोगी अरिभान ने सिविल इंजीनियरिंग से संबंधित विस्तृत जानकारी से विद्यार्थियों को जागरूक किया। कार्यशाला के दौरान छात्र-छात्राओं ने विभिन्न मॉडल भी बनाए। इस अवसर पर राहुल, अनमोल, कनिका, शीतल, अदिती, लोकेन्द्र, कृतिका, साहिल, मुकुल बिष्ट, अमोल, दिव्या, आशुतोष, प्रियंका, वैभव, राशि और अमृता के अलावा कई छात्र-छात्राएं उपस्थित रहे।



रामपुर बुशहर : डीएवी स्कूल दत्तनगर में कार्यशाला के दौरान मौजूद छात्र-छात्राएं



# जेपी विवि में विद्यार्थियों ने विज्ञान एवं प्रौद्योगिकी की बारीकियां जानी

## डीएवी स्कूल में एक दिवसीय विज्ञान कार्यशाला की आयोजित

भास्कर न्यूज | रामपुर बुशहर

विज्ञान एवं प्रौद्योगिकी के क्षेत्र में विद्यार्थियों को विकसित करने के उद्देश्य से डीएवी स्कूल दत्तनगर में जेपी विश्वविद्यालय ने एक दिवसीय कार्यशाला का आयोजन किया गया।

इस कार्यशाला में विज्ञान एवं प्रौद्योगिकी से संबंधित अहम जानकारी छात्र छात्राओं को दी गई। इस दौरान स्कूल के प्रधानाचार्य विजय वर्मा ने कार्यक्रम की अध्यक्षता की। इस दौरान कार्यशाला में जेपी विश्वविद्यालय से आई टीम अपने विषय से संबंधित विस्तृत जानकारी छात्र एवं छात्राओं के समक्ष रखी। कार्यशाला में दत्तनगर के छात्र-छात्राओं ने विज्ञान से संबंधित विभिन्न मॉडल भी बनाए गए, जिसे विश्व विद्यालय से आए डॉक्टरों ने खूब सराहा।

### ये रहे मौजूद

इस मौके पर राहुल, अनमोल ठाकुर, कनिका ठाकुर, शीतल चौहान, अदिति सनाढू, लोकेंद्र, कृतिका शर्मा, साहिल ठाकुर, मुकुल बिष्ट, अमोल, दिव्या, आशुतोष, प्रियंका, वैभव, राशि, अमृता सहित दर्जनों छात्र छात्राएं उपस्थित रही।



डीएवी स्कूल दत्तनगर में आयोजित कार्यशाला के दौरान प्रधानाचार्य के साथ मौजूद छात्र छात्राएं एवं जेपी विश्वविद्यालय से आए डॉक्टर।

### छात्रों से कार्यशाला में किए वैज्ञानिक परीक्षण

कार्यशाला में सबसे पहले जेपी विश्व विद्यालय से आए के डॉ. राहुल श्रीवास्तव ने छात्रों को बायोटेक्नोलॉजी विषय के बारे में विस्तृत जानकारी दी। वहीं डॉ. रघुथमन ने बायो इन्फॉर्मेटिक्स, डॉ. नवीन ने इलेक्ट्रॉनिक्स, डॉ. ज्ञानी जैल सिंह और उनके सहयोगी अरिभान ने सिविल इंजीनियरिंग से संबंधित जानकारी देकर उन्हें जागरूक किया। रविकांत ने तकनीशियन की भूमिका अदा कर पीएचडी छात्र नवीन कुमार के सहयोग से छात्रों को कई वैज्ञानिक परीक्षण करवाए। स्कूल के अध्यापकों और छात्रों ने इस कार्यशाला का भरपूर लाभ उठाया। कार्यशाला के दौरान छात्रों को डीएनए टेस्ट और रोबोट को सड़क पर चलाकर विभिन्न गतिविधियों से अवगत कराया गया। आधुनिक युग में रोबोट की सहायता से बिना चालक बस चलाने बारे भी छात्रों को प्रशिक्षित किया गया। कार्यक्रम के अंत में स्कूल के प्रधानाचार्य ने छात्रों को विज्ञान से संबंधित जानकारी देने के लिए विश्व विद्यालय से आई टीम का धन्यवाद किया। उन्हें भविष्य में भी ऐसे कार्यशाला आयोजित करने का आह्वान किया।



A  
REPORT ON  
INDUSTRIAL VISIT  
TO  
**Minchy Food product ltd.**  
Sadhupul-Kandaghat



ON 19<sup>th</sup> AUGUST 2017  
BY STUDENTS OF  
BIOTECHNOLOGY

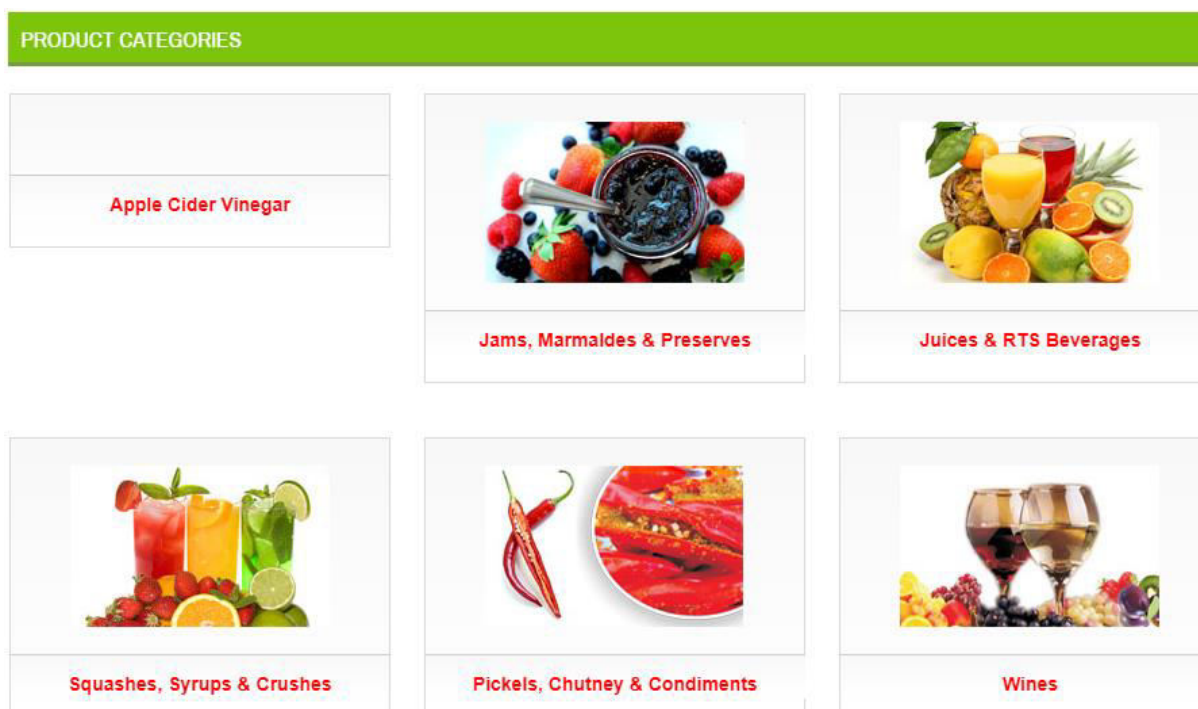
ORGANIZED BY  
Department of Biotechnology  
JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY-  
WAKNAGHAT



Industrial visit was carried out at Minchys food product ltd- sadhupul, kandaghat on 19<sup>th</sup> August, 2017 especially for semester one student. The main objective behind the visit was to make student aware about how various activities related to food product processing, packing marketing, are carried out in company and give them feel of biotechnology applications as soon as they start there course.

I along with 33 students and one faculty member (Dr. Poonam Sharma) left for visit at 10 a.m. and took about one hour to cover the distance. The company is located in Sadhupul, tehsil kandaghat, Distt. Solan- H.P.

As soon as we reached company we were guided by Mr sunil to the production house where a orientation of company was given by Mr. Varinder (GM-Production) about history and main products.



As a food product company, Minchys is active in Himachal Pradesh especially in Solan and Shimla district. Their greatest asset is their brand and its values. Their brand promises the richness of fresh fruit in every packing.

After introduction, all students were divided in two groups of 17 and 16 students and were headed by one staff member of company who helped them to understand how production is carried out in company and how company reach their customer.

Maximum production in company is carried out by means of machinery subdivide in various activities like inception of raw material, mixing process, pasturization, covering the product and then converting it into finished products. Finally Finished products are packed and are sealed where production batch no is embossed for its future verification required.

We took almost two hour to see complete set of production which was followed by questions of students. I appreciate staff member who guided students with each and every question with detailed answers.





It is rightly said that “See & know’ is better than ‘read & learn’. Students have got real feel of company’s working after this visit. They got a chance to transfer their theoretical knowledge to practical implication. This will even help students to understand subject matter clearly in future also.

Me and Dr. Sharma along with student would like to extend our gratitude to company for permission and support they gave to make our visit a success with accomplishment of objective and our HOD Sir, Dr. Sudhir Kumar Syal, Director sir, Dr. Sameer Dev Gupta and V.C Sir, Dr. Vinod kumar for arranging this visit for our student.

Thanks

Dr. Abhishek

# Outreach Activity Report

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

**Activity:** Science and Engineering Workshop

**Date:** 05-08-2017

**Place of Activity:** DAV School, Bilaspur, H.P. and DAV School, Barmana, H.P.

Outreach activity was done in two reputed DAV schools, one in the morning (Bilaspur) and other in the evening (Barmana) on same day.

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

**Number of Participants:** 140-150

**Media Reports:** Divya Himachal: 06/08/2017



## छात्रों ने जानी बायो टेक्नोलॉजी



सोलन- जेपी विश्वविद्यालय में अनोखी कार्यशाला का आयोजन किया गया। ज्ञात रहे कि जेपी विश्वविद्यालय समय-समय पर पूरे हिमाचल प्रदेश में स्कूलों के छात्रों के लिए विज्ञान एवं प्रौद्योगिकी की कार्यशालाओं का आयोजन करता है। शनिवार को ऐसी ही दो कार्यशालाओं का आयोजन किया गया। इस बार यह कार्यशाला डीएवी स्कूल बिलासपुर एवं डीएवी स्कूल बरमाना में की गई। जेपी विश्वविद्यालय की एक टीम ने डा. सुधीर कुमार के नेतृत्व में बायोटेक्नोलॉजी, बायोइंफार्मेटिक्स, इलेक्ट्रॉनिक्स, कम्यूनिकेशन एवं रोबोटिक्स के बारे में विस्तृत जानकारी दी। डा. तीर्थराज सिंह ने बायोइंफार्मेटिक्स पर तथा डा. नवीन जगलान ने इलेक्ट्रॉनिक्स पर छात्रों को संबोधित किया। इस्माइल व प्रमोद ने तर्कशायन की भूमिका अदा की व पीएचडी छात्र तुषार की सहायता से बच्चों को वैज्ञानिक परीक्षण करवाए। डा. अनिल कांत ने भी परीक्षाओं में मदद की तथा बच्चों को डीएनए इलेक्ट्रोफोरेसिस तथा पीसीआर के बारे में बताया। छात्रों व शिक्षकों ने कार्यशाला का भरपूर आनंद उठाया व नई जानकारीयां हासिल कीं।

## **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. Anil Kant, Assistant Professor (Senior Grade), Department of BT and BI
4. Dr. Naveen Jaglan, Assistant Professor (Grade-II), Department of ECE

### **Lab Staff:**

1. Mohd. Ismail Siddiqui, Department of BT and BI
2. Mr. Pramod Kumar, Department of ECE

### **Students:**

1. Tushar Barwal (BTDD final Year) Department of BT and BI

## **Content of the activity:**

**Lectures:** Dr. Sudhir Kumar, Dr. Tiratha Raj Singh and Dr. Navin Jaglan interacted with the students about various career opportunities in Biotechnology, Bioinformatics and Electronics.

1. Lab demonstrations: By all faculty, lab staff and students
2. Interaction with school teachers and 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. 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.

### **Group Photo With students from the event:**



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# **Outreach Activity Report**

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

**Activity:** Science and Engineering Workshop

**Date:** 12-07-2017

## **Places of Activity:**

1. Laureate Public School, Shimla, H.P.

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

**Number of Participants:** 80-90

## **Objectives of the activity:**

1. Student awareness for new and exciting career 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. Tiratha Raj Singh, Assistant Professor (Senior Grade), Department of BT and BI
2. Dr. Anil Kant Thakur, Assistant Professor (Senior Grade), Department of BT and BI

3. Dr. Meenakshi Sood, Assistant Professor (Grade-II), Department of ECE

**Lab Staff:**

1. Mr. Ismail, Department of BT and BI
2. Mr. Abhishek, Department of ECE

**Students:**

1. Mr. Ankush Bansal (PhD scholar) Department of BT and BI
2. Ms. Poonam Kumari (PhD scholar) Department of BT and BI

**Content of the activity:**

1. Lectures
  - (i) Dr. Tiratha Raj Singh and Dr. Meenakshi Sood interacted with students about Bioinformatics, Biotechnology and Electronics and Communication and Career Opportunities in these areas.
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.



- 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: Divya Himachal: 15/07/2017**

**दिव्य हिमाचल**

13/07/2017

## जेपी विवि ने लोरेट स्कूल में लगाई वर्कशाप

■ सुकेश कुमार, सौलन



जेपी विश्वविद्यालय वाकनाघाट द्वारा बुधवार को शिमला के लोरेट पब्लिक स्कूल में बच्चों के लिए साइंस एंड इंजीनियरिंग शिविर का आयोजन किया। इस शिविर में स्कूल के सभी बच्चों व अध्यापकों ने बढ़-चढ़कर भाग लिया। वर्कशाप के दौरान विश्वविद्यालय से आए टेक्नीकल स्टाफ द्वारा बच्चों को आधुनिक तकनीकों के बारे में विस्तृत जानकारी दी। वर्कशाप के दौरान बच्चों को आधुनिक इलेक्ट्रॉनिक्स व पारंपरिक



इंजीनियरिंग शाखाओं जैसे बायोटेक्नोलॉजी व बायोइंफोटेक विषय में कैसे भविष्य बनाया जाए। इसके बारे में बच्चों को अवगत

करवाया गया। इस दौरान बच्चों के लिए कई तरह के प्रशिक्षण करवाए गए। स्कूली बच्चों ने खड़े हो ध्यान से इन सभी जानकारीयों को सुना व

इंजीनियरिंग क्षेत्र में भविष्य बनाने में अपनी रुचि दिखाई। गौर रहे कि जे पी विश्वविद्यालय द्वारा समय-समय पर इस तरह के शिविरों का

■ इंजीनियरिंग एंड साइंस पर बच्चों को दी जानकारी

आयोजन किया जाता है और बच्चों का अपने कैरियर बनाने के लिए सही मार्गदर्शन किया जाता है। इस शिविर का आयोजन डा. तीर्थ राज सिंह डा. अनिल कांत व डा. मीनाश्री सुंद व विश्वविद्यालय के टेक्नीकल स्टाफ द्वारा किया गया। जे पी विश्वविद्यालय द्वारा लगाए गए। इस शिविर की स्कूली बच्चों ने खूब सराहना की व इस वर्कशाप में बढ़-चढ़ के भागेदारी दी। इस मौके पर जेपी विश्वविद्यालय के इसमेल, अभिषेक, अकुश व पूनम मौजूद रहे।

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# **Outreach Activity Report**

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

**Activity:** Science and Engineering Workshop

**Date:** 14-06-2017

## **Places of Activity:**

1. St. Marry School, Sundernagar, H.P.

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

**Number of Participants:** 120-130

## **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. Tiratha Raj Singh, Assistant Professor (Senior Grade), Department of BT and BI
2. Dr. Rahul Shrivastava, Assistant Professor (Senior Grade), Department of BT and BI

3. Dr. Naveen Jaglan, Assistant Professor (Grade-II), Department of ECE

**Lab Staff:**

1. Mr. Baleshwar, Department of BT and BI
2. Mr. Kamlesh, Department of ECE

**Students:**

1. Tushar Barwal (BTDD final Year) Department of BT and BI
2. Ritika (PhD scholar) Department of BT and BI

**Content of the activity:**

1. Lectures
  - (i) Dr. Tiratha Raj Singh - Bioinformatics and Career Opportunities in Information Technology and Bioinformatics
  - (ii) Dr. Rahul Shrivastava - Career, Training and Placements after BTech in ECE, BT and BI.
  - (iii) Dr. Naveen Jaglan - Robotics and its applications.
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: Divya Himachal: 15/06/2017



#### छात्रों को ज्ञान

सोलन — जेपी यूनिवर्सिटी वाकनाघाट द्वारा सुंदरनगर में कार्यशाला का आयोजन किया गया। इसमें दस जमा एक व दो के विद्यार्थियों को बायोटेक्नोलॉजी, बायोइन्फार्मेशन व इलेक्ट्रॉनिक्स विषयों के बारे में जानकारी दी।



सोलन : जेपी यूनिवर्सिटी में छात्रों के लिए विशेष एकदिवसीय कार्यशाला का आयोजन किया गया। इस दौरान बुधवार को दिन भर छात्र विभिन्न क्षेत्रों की जानकारी जुटाते दिखे



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### **Report on the JUIT visit to Y S Schools, Barnala, Punjab**

A science and engineering workshop activity by JUIT was held in Y S Schools, Barnala, Punjab on 30th May, 2017. JUIT exhibited their mobile lab representing the departments of Biotechnology and Bioinformatics, and Electronics and Communication Engineering for the benefit of school students. Dr. Sudhir Kumar explained about electronic waste management and recovery of gold and silver from e-waste. He also explained about the portable biogas model based on kitchen waste. Mr. Baleshwar demonstrated experiments of microbial staining, use of digital pH meter, handling of micropipettes, and plant tissue culture. Dr. Ragothaman explained about Bioinformatics and its applications, emphasizing the future prospects of Bioinformatics. Mr. Pramod and Mr. Dheerendar Singh demonstrated the robotics applications, which were developed by JUIT students from Electronics and Communication Engineering. We also had “JUIT at a glance” and “Department of Biotechnology and Bioinformatics” fliers, along with one page coloring activity for children.

#### **Response:**

There were 109 students from non-medical class and 99 students from medical class who listened to the lectures and visited the mobile lab and asked questions about Biotechnology and Bioinformatics, Electronics and Communication Engineering, and about JUIT, its admission process and other details. Also, PGT and TGT teachers enquired about the university and the courses we offered. We distributed the “JUIT at a glance” and “Department of Biotechnology and Bioinformatics” fliers to prospective students and to teachers for display in their schools.

Some photographs of the event are below.



Dr. Sudhir Kumar and Dr. Ragothaman delivering lectures



Mr. Dheerender, Mr. Baleshwar and Mr. Pramod displaying the mobile lab



Enthusiastic students visiting JUIT mobile lab.





JUIT team with Faculty of YS Schools, Barnala

# **Outreach Activity Report**

**Jaypee University of information Technology, Wagnaghat,  
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 career 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 बायोदनफार्मेटिक्स 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।

**SOURCE: AMAR UJALA/FRIDAY/19-05-2017/PAGE-04/LRC**

[file:///C:/Users/vipin/Desktop/Amar%20Ujala\\_BT\\_BI\\_19-05-2017%20\\_Page%2004\\_LRC.html?format=img](file:///C:/Users/vipin/Desktop/Amar%20Ujala_BT_BI_19-05-2017%20_Page%2004_LRC.html?format=img)

**एक दिवसीय कार्यशाला का आयोजन**

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Amar Ujala, 19<sup>th</sup> May, Solan, H.P.