Criteria 2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

The institute has a well-defined organization structure for the experimental, participative and problem solving learning of the students. Experimental learning improves the problem solving abilities of the students and enhances their understanding. Project based learning is the method of experimental learning. The institute has been implemented project based learning from the first year itself. In every semester defined projects are given to the group of students and they come up with their ideas and implementation by pooling resources from various departments. Some co-curricular activities and facilities that provide for experiential learning are discussed later.

The project work carried out by the students generally reflect their learning level during the program and knowledge of all the PO's while implementing their project work on various technical /social challenges of the society. The project work is carried out by group of students and process of distribution of groups and their continuous evaluation is to be ensuring by Internal Quality Assurance Cell (IQAC). Minor and Major Project are per curricular.

- Project exhibition by 1st Year students.
- Technical clubs of students who are working on hardware/software development for example Go-Kart, Drone, Robot, Bot, App development, Cars, modified bikes, solar based vehicles etc. all comes under the category of project based learning.
- Social clubs are also a part of project based learning. JECRC students are teaching to poor students, donating blood, live platelets donation (SDP), facilitate of beneficiary and sanitizing girl students.

Other than curricular prescribed by the university a study centric learning in the area of curricular/ co-curricular activity, where, students exhibit their skills, managing activity, enhancing skills, teach them how to handle a particular task comes under project based learning.

Project Based Learning

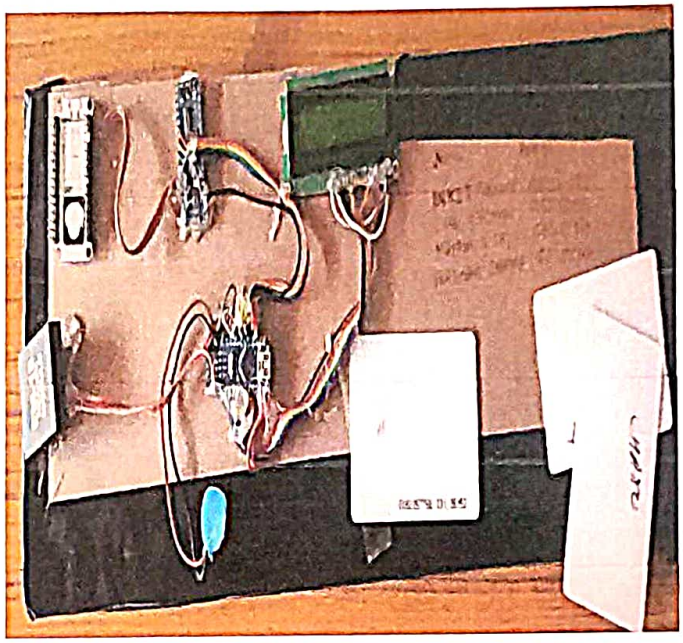
S.no.	Activity under Project based learning
1.	Minor and Major Projects
2.	Hardware/software working model exhibition
3.	Smart India Hackathon internal weekend
4.	Moon riders club (making of Go-karts/cars/bikes etc.)
5.	Embedded system/Robot/Drone
6.	Photography Club

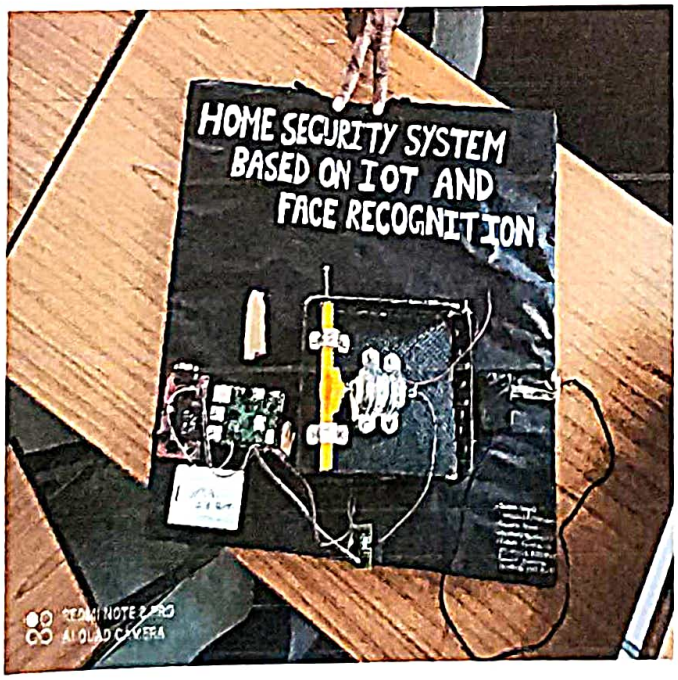
Jaipur Engineering College And Research Centre

JAIPUR ENGINEERING COLLEGE
AND RESEARCH CENTRE

Experimental Learning: - Minor and Major Projects

Home Security system based on IOT and face recognition major project develop by the student of Computer Science and Paper shredder machine developed by the student of Mechanical student.

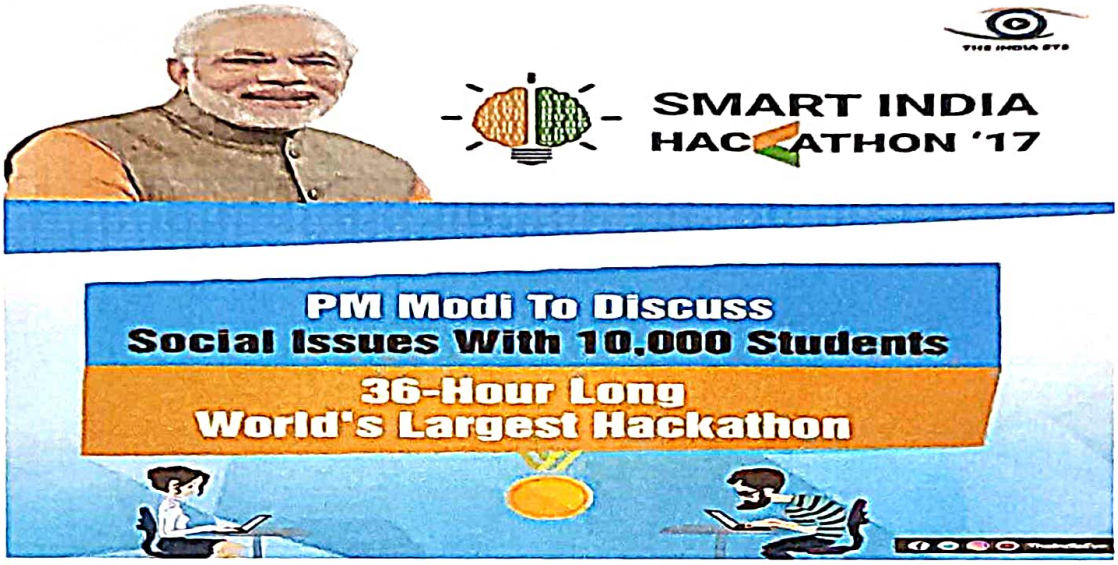


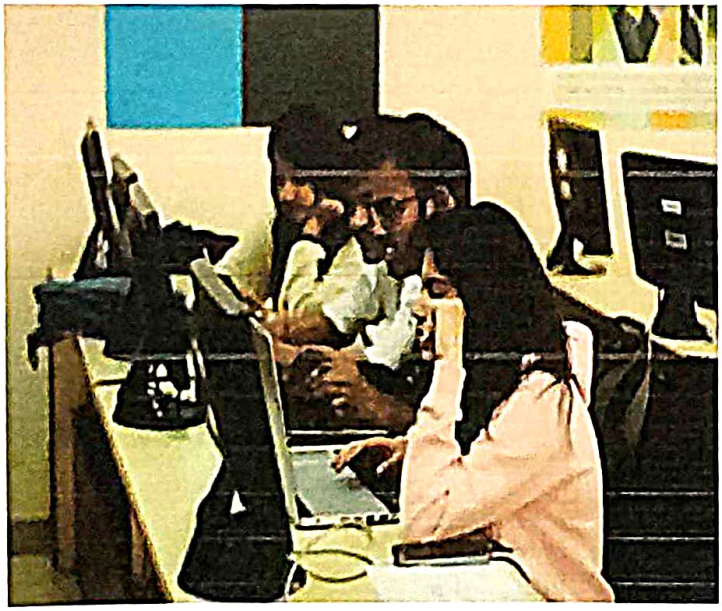


JAIPUR ENGINEERING COLLEGE
AND RESEARCH CENTRE

Problem Solving Methodology: - Hackathon

Hackathon is a computer oriented coding event which includes computer programming, software development, graphic designing, interface designing, app development, website designing, video game development etc. It is a day long time event. Winning teams are awarded.

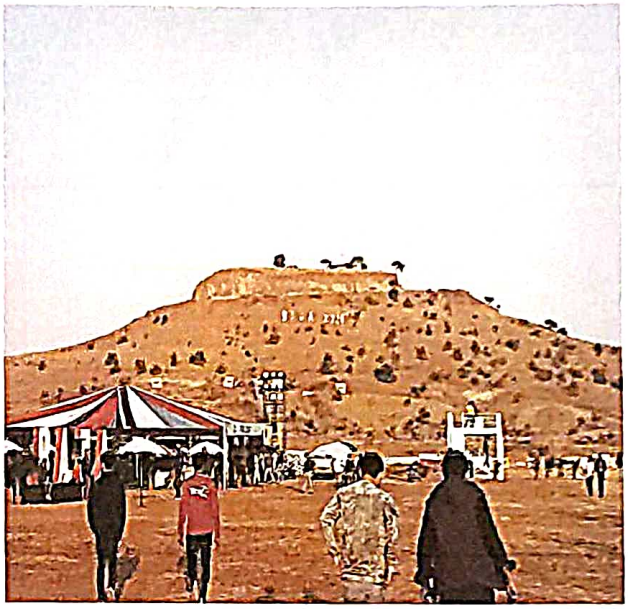




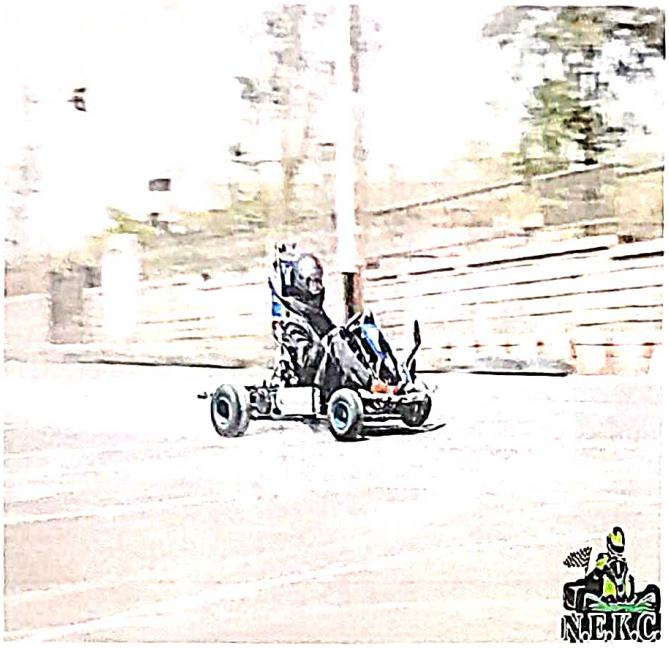
JAIPUR ENGINEERING COLLEGE
AND RESEARCH CENTRE

Project Based Learning: Moon Rider Club

Team MOONRIDERS is the SAE Collegiate Club of JECRC Jaipur. The club participates in various National Motorsports events in which a racing vehicle is designed and fabricated under the Moonriders Lab, which competes with teams coming from different parts of India.

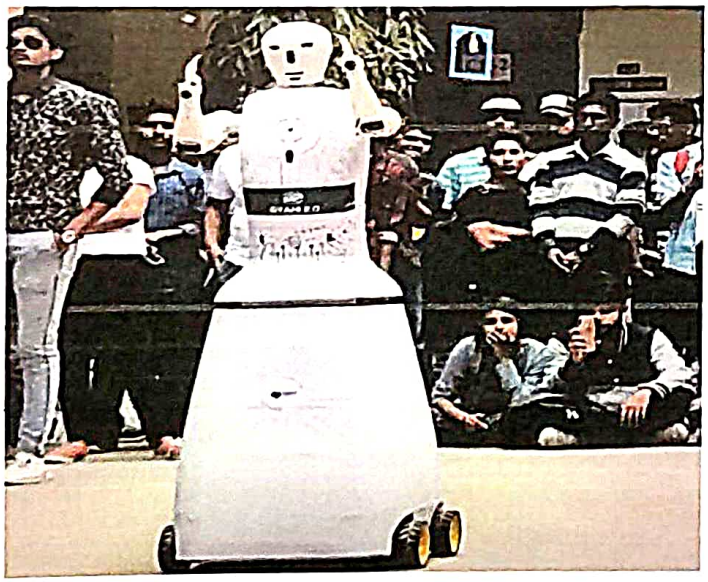


JAIPUR ENGINEERING COLLEGE
AND RESEARCH CENTRE



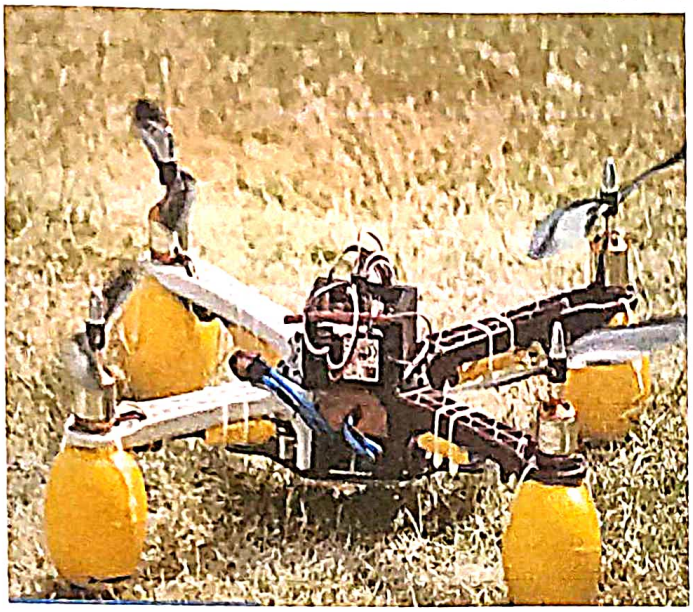
Project Based Learning: - Embedded system/Robot/drone

Robot and drone were developed by the student of Computer Science. A car is assembled by the students of Mechanical Department. Hydraulic crane by civil department students.



Jaipur Engineering College & Research Centre

JAIPUR ENGINEERING COLLEGE
AND RESEARCH CENTRE

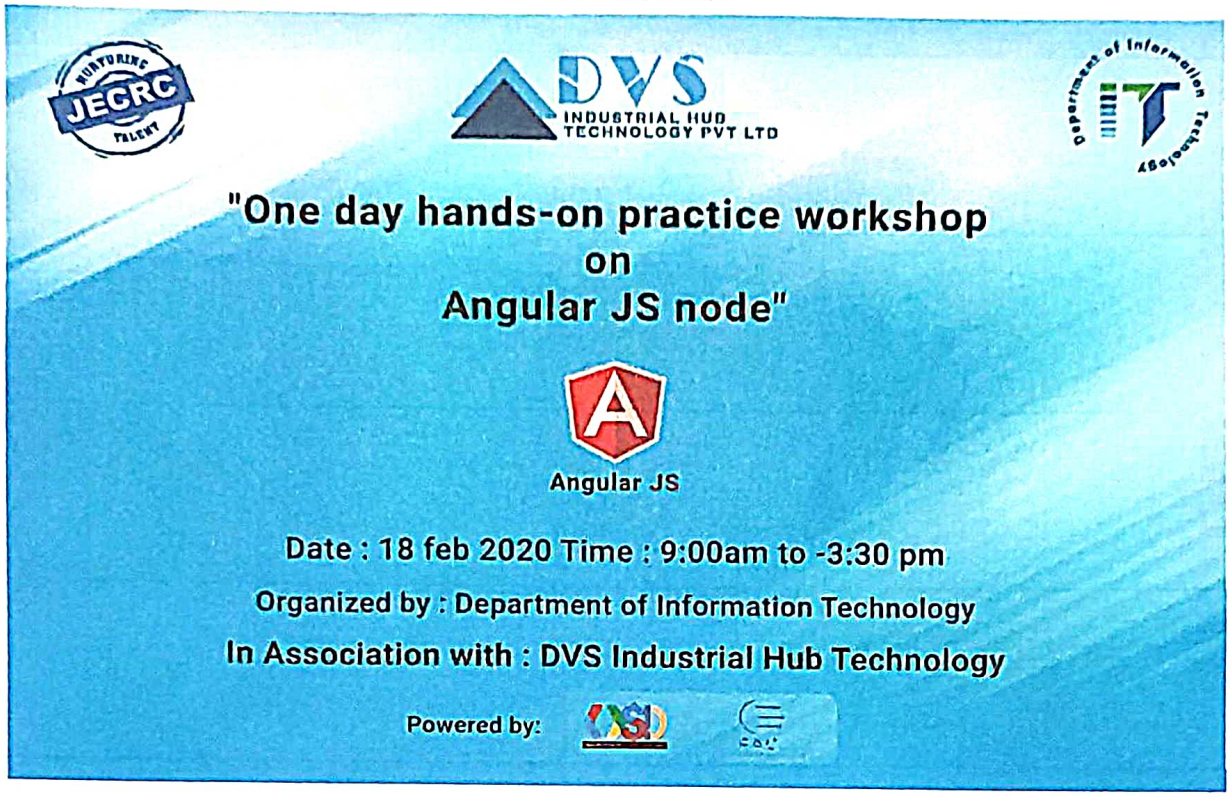


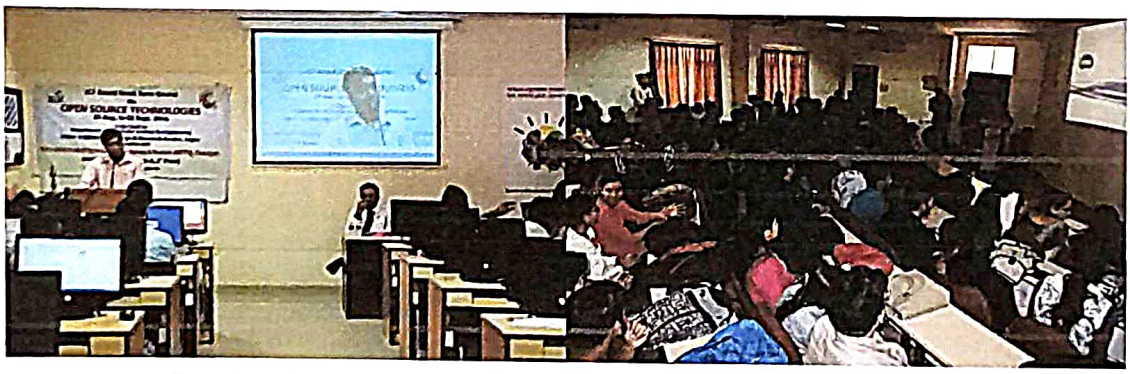
Experimental Learning: Workshop

Workshop Conducted by Department of Information and Technology on Angular JS node with the association of DVS Industrial Hub Technology on 18 Feb 2020.

Jaipur Engineering College And Research Centre

JAIPUR ENGINEERING COLLEGE
AND RESEARCH CENTRE

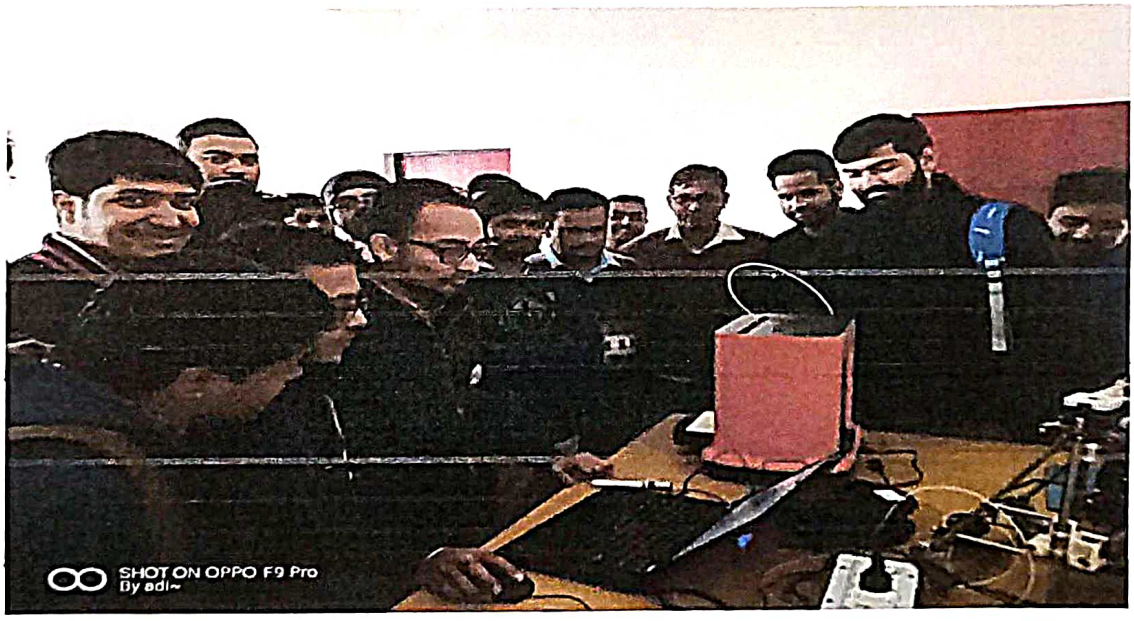




Experimental Learning: - Lab Experiments

Lab experiments play vital role for engineering students of all branches in each semesters. Labs are taken by first year students in computer lab and electronics students.

JAIPUR ENGINEERING COLLEGE
AND RESEARCH CENTRE

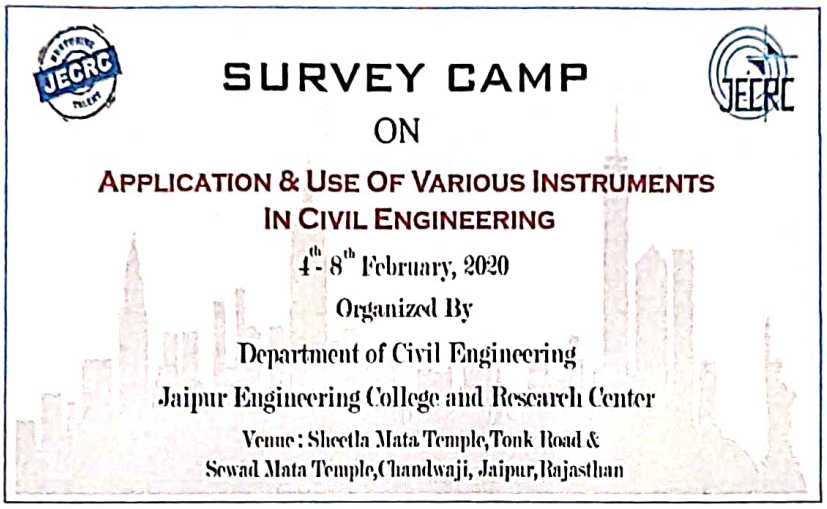


Experimental Learning: - Survey Camp

Jaipur Engineering College and Research Centre

JAIPUR ENGINEERING COLLEGE
AND RESEARCH CENTRE

Survey Camp conducted by Department of Civil Engineering for B.Tech 2nd year students from 4th February to 8th February, 2020 at Sheetla Mata Temple, Chaksu and Sewad Mata Temple, Chandwaji, Jaipur, Rajasthan. This camp was aimed to groom civil engineering students with essential knowledge of various instruments and exposure to the real work, and to encourage leadership and teamwork skills. This survey camp resulted in encouraging and supporting students, emerging as leaders in several areas of academic provision.



Participative Learning: - Industrial Visit

JAIPUR ENGINEERING COLLEGE
AND RESEARCH CENTRE

An Industrial trip was conducted for the student of engineering at Microtek Chandigarh, Punjab. Visual learning is more effective than theoretical learning. Microtek is the country's largest power products manufacturing company. It manufacture products like line interactive ups, online ups etc. Few pictures of Microtek visiting are below.

JAIPUR ENGINEERING COLLEGE
AND RESEARCH CENTRE

Experimental Learning: - Virtual Lab

A one-day workshop on virtual labs was organized on 20 August 2019 for faculty members and students by Virtual Labs team, IIT Delhi. Virtual lab mentors were Mr. Ashish Ranjan and Mr. Rajat Kumar Jha. Use of Virtual labs is encouraged and online courses.

भारतीय प्रौद्योगिकी संस्थान दिल्ली
Indian Institute of Technology Delhi

Virtual

Virtual Labs Workshop Students Attendance Form

Institute Name: JECRC Jaipur

Date: 20/8/19

	Name	Branch	Email ID
1	Saksham Sharma	CSE	Kalpavi Sharma 5@gmail.com
2	Saumya Sharma	CSE	Sharma saumya 982@gmail.com
3	Sankalp Rajesh	CSE	Sankalp Rajesh 14@gmail.com
4	Rahul Tyagi	CSE	Rahul tyagi 1997@gmail.com
5	Shubham Khandelwal	CSE	Shubham khandelwal 16103001@gmail.com
6	Rishabh Agarwal	CSE	Rishabh 26504 76@gmail.com
7	Sachin Nehra	I.T	Sachinnehra 0021@gmail.com
8	Ravikumar Jat	CS	ravikumarjat [illegible]
9	Vijay Varma	ME	vijayvarma [illegible]
10	Sohid Khan	CSE	Sohid khan 1411@gmail.com
11	Nitin Dadiya	ECE	nitin [illegible]
12	Jai Prakash Vishwakarma	EE	jaiprakash [illegible]
13	Vikram Gil	EE	vikram 7052@gmail.com
14	Rishabh Jain	I-T	Mithabhj 249@gmail.com
15	Shivam	C.S	shivamkhajanchi@gmail.com
16	Priyanshu Singhal	EC	priyanshusinghal [illegible]@gmail.com
17	Raj Bhatnagar	EC	rajbhatnagar [illegible]@gmail.com
18	Raghav Tiwari	EC	raghavtiwari [illegible]@gmail.com
19	Sankalp Soni	CSE	Sankalpsoni 82@gmail.com
20	Shivam Saini	CSE	shivam [illegible]
21	Sumit JAIN	CSE	sumitjain [illegible]@gmail.com
22	Samarth Gupta	CSE	gupta [illegible]@gmail.com
23	Milan Parsta	EE	milan Parsta 117@gmail.com
24	Rishabh Suman	EE	rishabhsuman 154@gmail.com
25	Lokesh Parsta	EE	lokesh parsta [illegible]@gmail.com
26	Kamal Sharma	EE	Jaiu Kumal 1430@gmail.com
27	Anjesh Mahato	CSE	[illegible]@gmail.
28	Devesh Yadav	CSE	Devesh yadav 9829@gmail.com
29	Devanshu Bishnoi	CE	devanshubishnoi 209@gmail.com
30	Jaspreet Kalwa	CE	Kalwa [illegible]@gmail.com
31	Yash Pahta	CSE	1711498 76@gmail.com
32	Divyesh Gupta	CSE	Ogdivyesh 16@Gmail.com

Field Engineer

Signature of Head of Institution

भारतीय प्रौद्योगिकी संस्थान दिल्ली
Indian Institute of Technology Delhi

Virtual

Virtual Labs Workshop Students Attendance Form

Institute Name: JECRC Jaipur

Date: 20/8/2019

	Name	Branch	Email ID
1	Kalpika Dikshita	IT	
2	Shivam Tanwar	IT	[illegible]
3	Nagendra Sankit	IT	[illegible]
4	Jyoti Poddar	EC	[illegible]
5	Hitesha	EC	[illegible]
6	Riya Jain	CS	riya 71912@gmail.com
7	Pilkya Goyal	CS	[illegible]
8	Sakshi Agarwal	CS	Sakshibgandhi 522@gmail.com
9	Sakshi Kabra	CS	sakshikabra 29@gmail.com
10	Megha Mumawi	EC	meghalamawi 145@gmail.com
11	Diya Pasiwal	EE	diyapaswal 22001@gmail.com
12	Priyanshu Agrawal	ECE	agrawal priyanshu [illegible]
13	Prabhas Pratap Jaiswal	ECE	[illegible]
14	Prince Gupta	ECE	princekhandelwal 1123@gmail.com
15	Prabhu Upadhyay	ECE	[illegible]
16	Mandik Singh Bisht	ECE	Rishi Mandik@gmail.com
17	Ashish Gahlot	CSE	Agrashish 22[illegible]@gmail.com
18	Gaurav Bansal	CSE	bhaubansal 78[illegible]@gmail.com
19	Darshan Jain	CSE	jaindarshan 5148@gmail.com
20	Harsh Jain	ECE	[illegible]
21	Harsh Gurjar	ECE	[illegible]
22	Harsh Vardhan Singh	EC	[illegible]
23	Avik Jain	CSE	[illegible]
24	Harish Kumar	CSE	[illegible]
25	Arjun Verma	EE	[illegible]
26	Pokpak Meena	CE	[illegible]
27	Bhupendra Singh Sodiya	CE	[illegible]
28	Manish Bishnoi	CE	[illegible]
29	Kulldeep Sahrawat	CE	
30	Ankit	CE	ankitsingh rajpurohit 22@gmail.com
31	[illegible]	EE	[illegible]
32			

Jaipur Engineering College And Research Centre

JAIPUR ENGINEERING COLLEGE
AND RESEARCH CENTRE

Project Based Learning: - Incubator

The offshoot of research is the formation of Technology Incubation and Entrepreneurship Development Centre. The center's ambitious initiative is to attract students to develop their entrepreneurship. The Centre encourages the students to develop new ideas and innovative products. The Centre also mobilizes resources for product designing and undertakes feasibility study on commercial ventures for the products.

Rural Technology Business Incubator (RTBI), JECRC Foundation

List of Incubates

S.no.	Name of Start-up	Leader
1.	Oscorp	Pragyan Vashisht
2.	Heron	Ritik Kumar
3.	Marble Mandi	Mohammad Rizwan
4.	Life Nest	Mukul Jain
5.	Tejas	Saurabh Jangid
6.	4Fox Graphics	Sahil Khan
7.	Craft-e-Choco	Rounak Grag
8.	Neophytes	Khyati Jha
9.	Dexterio	Arpit Khattar
10.	Inferno	Ashish Mahwar
11.	FeMo	Aakanksha Sharma
12.	The Elites	Nitin Mathur
13.	Innovasia	Rohit Ghiya

Jaipur Engineering College And Research Centre

JAIPUR ENGINEERING COLLEGE
AND RESEARCH CENTRE

Project Based Learning: - Incubator

List of incubator for year 2019-2020

Rural Technology Business Incubator, JECRC Foundation

List of Incubates (2019-20)

S.no.	Name of Start-up	Team Leader
1.	Tejas	Saurabh Jangid
2.	4Fox Graphics	Sahil Khan
3.	Wed Vyah	Deepak chhipa
4.	ED Apply	Keshav Jangid
5.	ButikBazar	Nitin Mathur
6.	Vishi Shop	Piyush Mantri
7.	Medi Hops	Hardik Tiwari

Jaipur Engineering College And Research Centre

JAIPUR ENGINEERING COLLEGE
AND RESEARCH CENTRE

Project Based Learning: - Cultural Activities

Cultural Activities like solo dance, group dance, singing, and guitar are performed by students of all years.

JAIPUR ENGINEERING COLLEGE
AND RESEARCH CENTRE

Project Based Learning: - Social Activities

Learning with the help of social activities are part of project based learning. SOCH- "Kuch Kar Dikhane ki" is a cleanliness camp conducted by the students of JECRC. Blood donation camp and visit to Orphanage are the part of social activity.

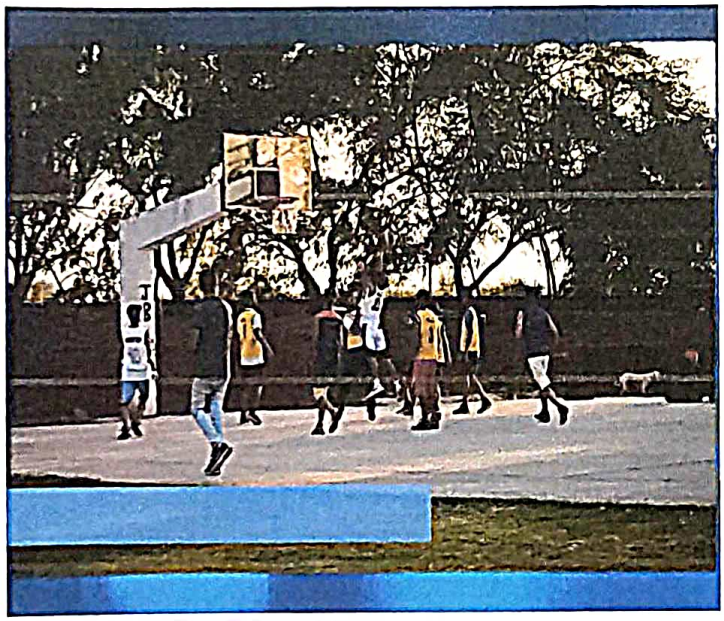
रक्तदाता सम्मान सामारोह का आयोजन, बच्चों को मोमेंटोस देकर किया सम्मान

JAIPUR ENGINEERING COLLEGE
AND RESEARCH CENTRE

Participative Learning: - Sports

Physical activities play very important role in physical and mental fitness. Mental fitness is very important for students. So, sports like basketball, cricket, chess, and carom play major role in project based learning.

JAIPUR ENGINEERING COLLEGE
AND RESEARCH CENTRE

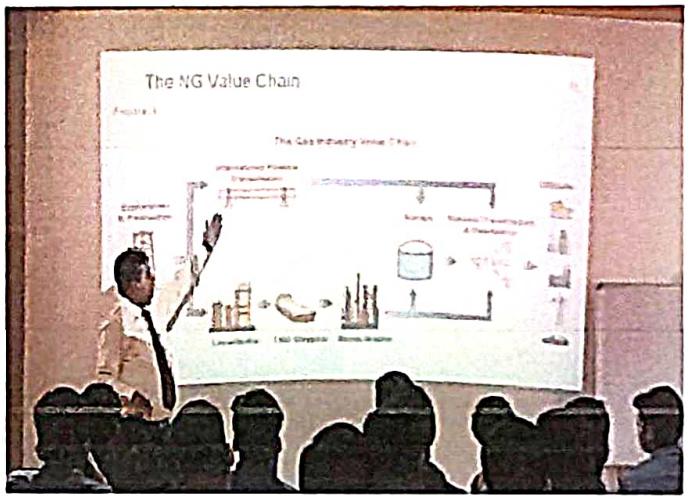


Participative Learning: - Guest Lectures

Guest lectures were taken by Col. Rajvardhan Singh Rathore, Union Minister of India. There was an interactive session with Prof. Niko Phillips, Group director of Oxford College. There was

JAIPUR ENGINEERING COLLEGE
AND RESEARCH CENTRE

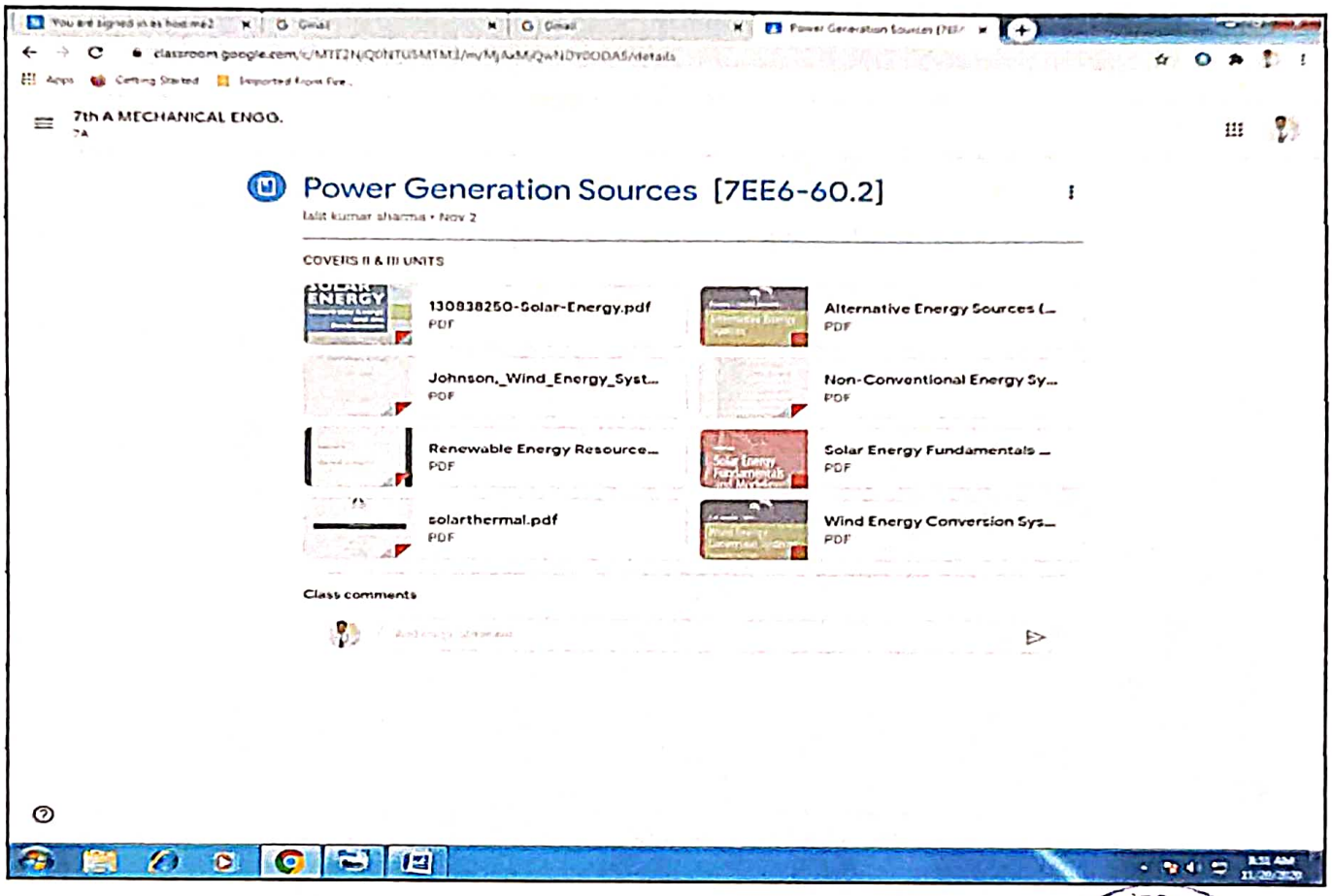
a special interactive session for the students with Dr. Sanjeev Ohri, Vice Principal of Dudley College of Engineering. Guest lecture by Mr. Faisal Hoda on, "Basic of natural gas and the role of GAIL in Rajasthan" at 9th Februrary 2019.



Problem Solving Methodology: - Assignments & Tutorials

JAIPUR ENGINEERING COLLEGE
AND RESEARCH CENTRE

Google classrooms are used by faculty members for the online classes. Lectures are taken by faculty members and problem are solved by faculties on google classroom. Assignments are also uploaded for the students for their practice.



Jaipur Engineering College And Research Centre