



BABA FARID COLLEGE OF ENGG. & TECHNOLOGY

Supporting Document for 2.3.1

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Principal
Baba Farid College of Engineering & Technology
BATHINDA.

Supporting document for 2.3.1

Activities/Photographs showing experiential learning

Live Projects/Major Projects



Students working on live project under the guidance of teacher



Faculty demonstrated the students on live project

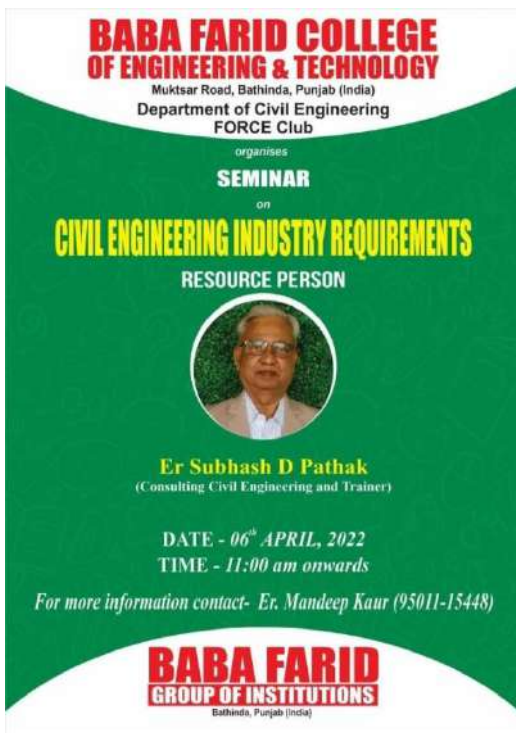
Workshops/Impact lectures/Guest Lectures

Department of Civil Engineering organized a workshop for students of 2k20 & 2k21 Batch on dated 5th and 6th May 2022. 25 students from the department attended this workshop to get a brief introductory knowledge of AutoCAD 2D & Revit. The Workshop was preceded by Technical Trainer, Mr Shivam Kalyan, Civil Head, of Infowiz, Bathinda.



Workshop on AutoCAD 2D & Revit

Department of Civil Engineering, Baba Farid College of Engineering & Technology, Bathinda organized a webinar cum interactive session for upcoming engineering graduates of BFCET by Mr Subhash .D. Pathak, Retired as Vice Manager (Engineering).



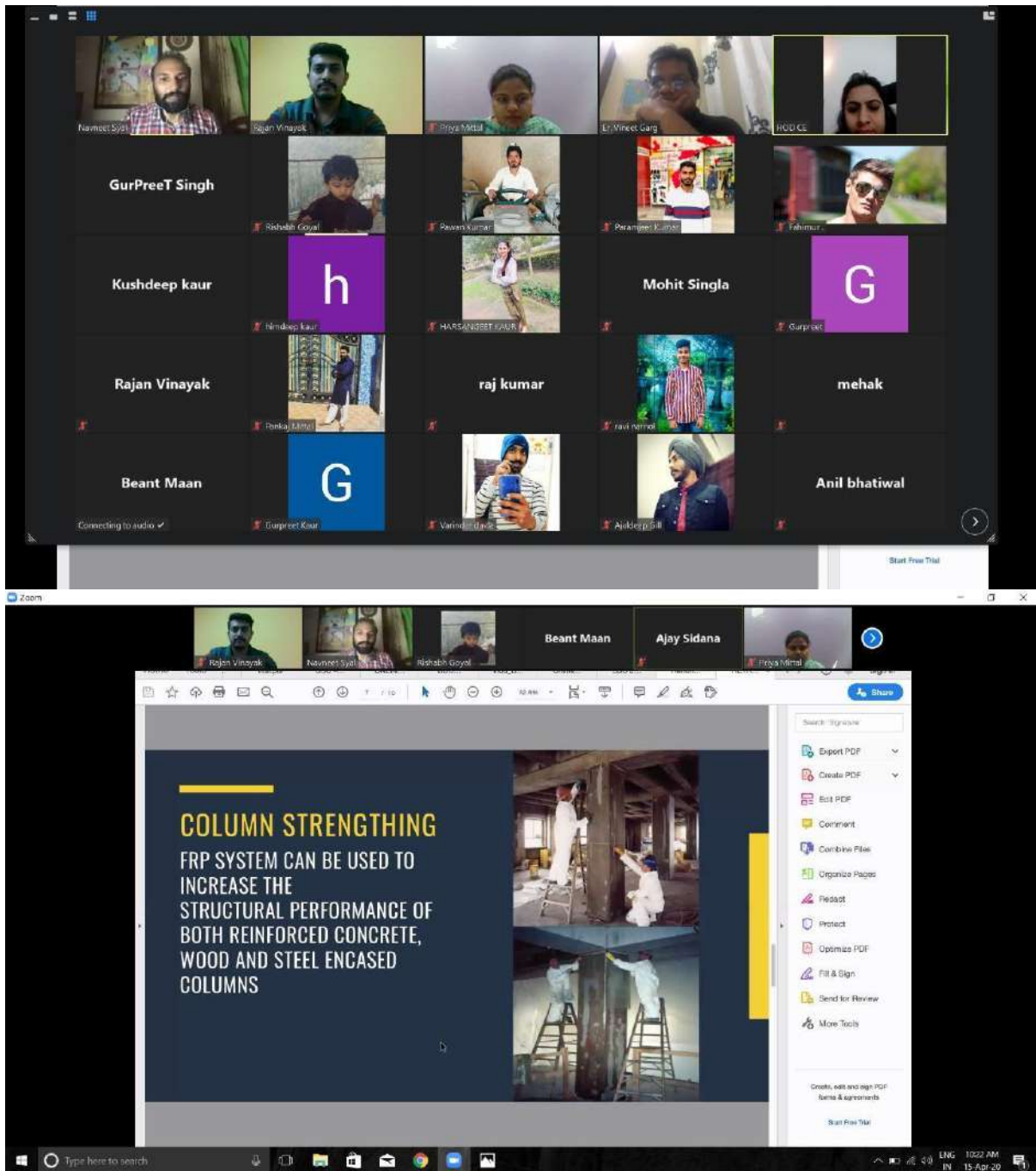
Webinar on Retrofitting of old structures through Fibres

Date of Webinar:15th April 2020

Program: Civil Engineering

No. of Students participated: 50

Name of Resource Person: Er. Nipun Syal, Director Eduzphere.



Webinar on Retrofitting of old structures through Fibres



Guest lecture

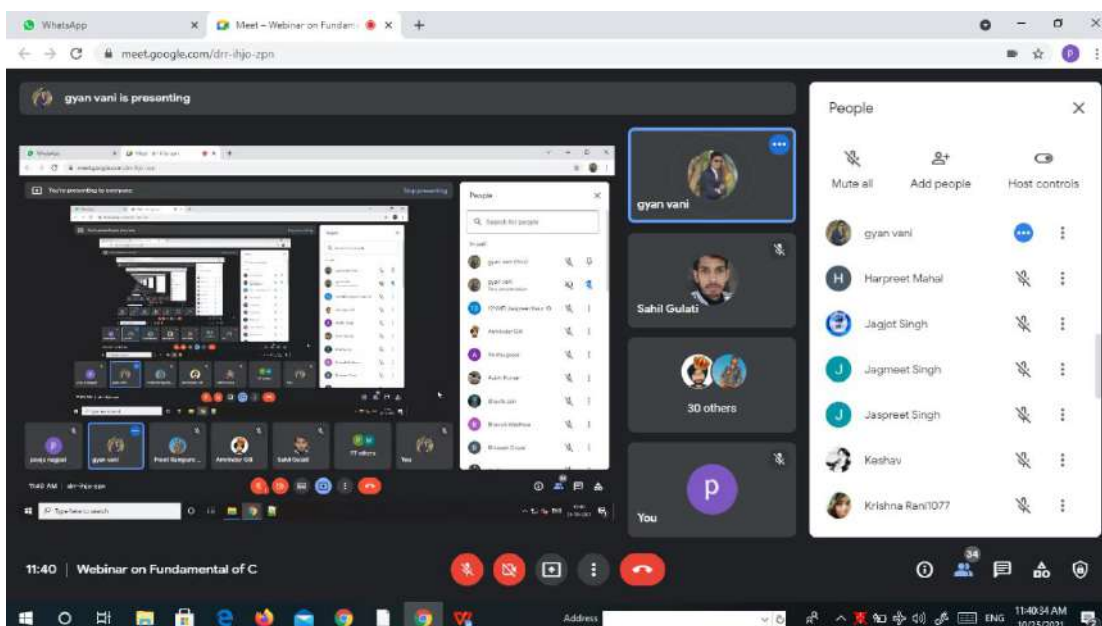
Workshop on Fundamental of C

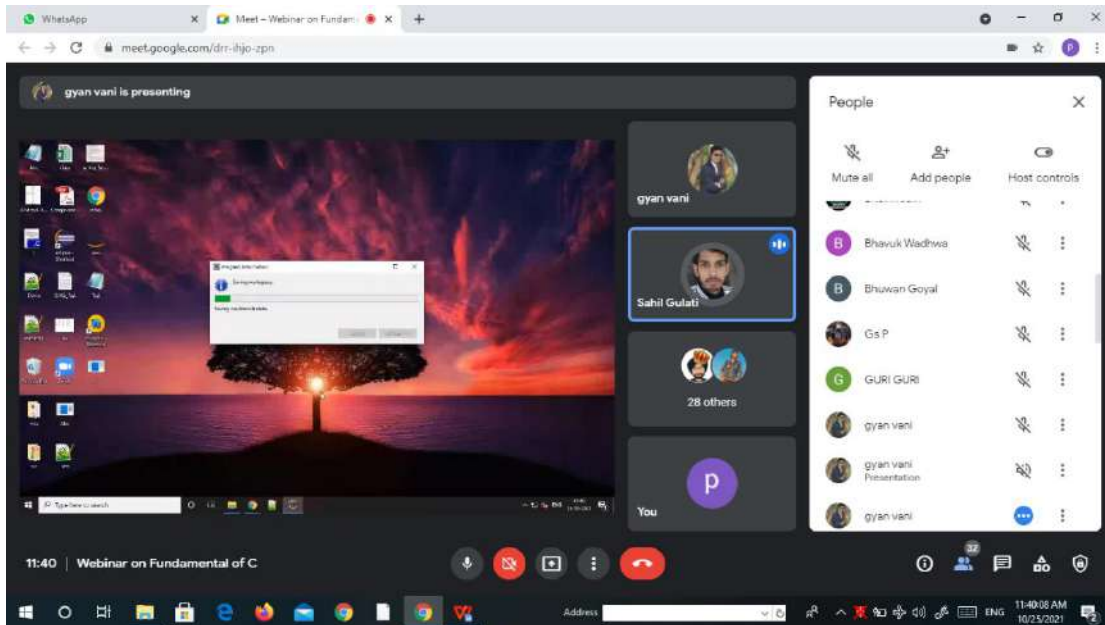
Date of Workshop: 25 October 2021

Program: Computer science & Engineering

No. of Students participated: 51

Name of Resource Person: Mr Gyan Ranjan





Workshop on Fundamentals on C

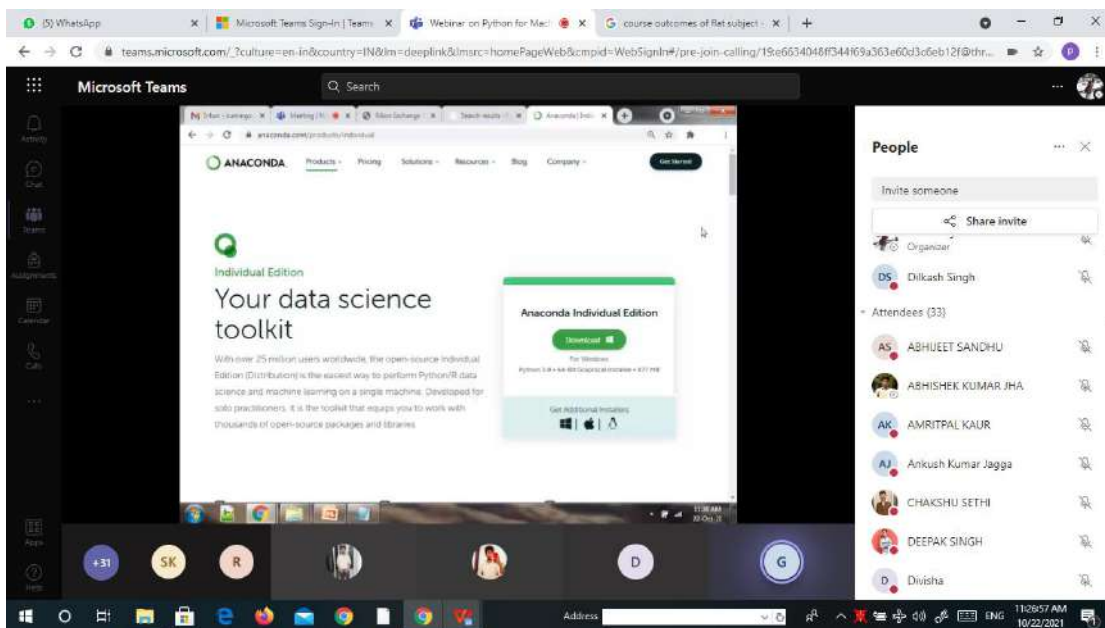
Workshop on Python for Machine Learning

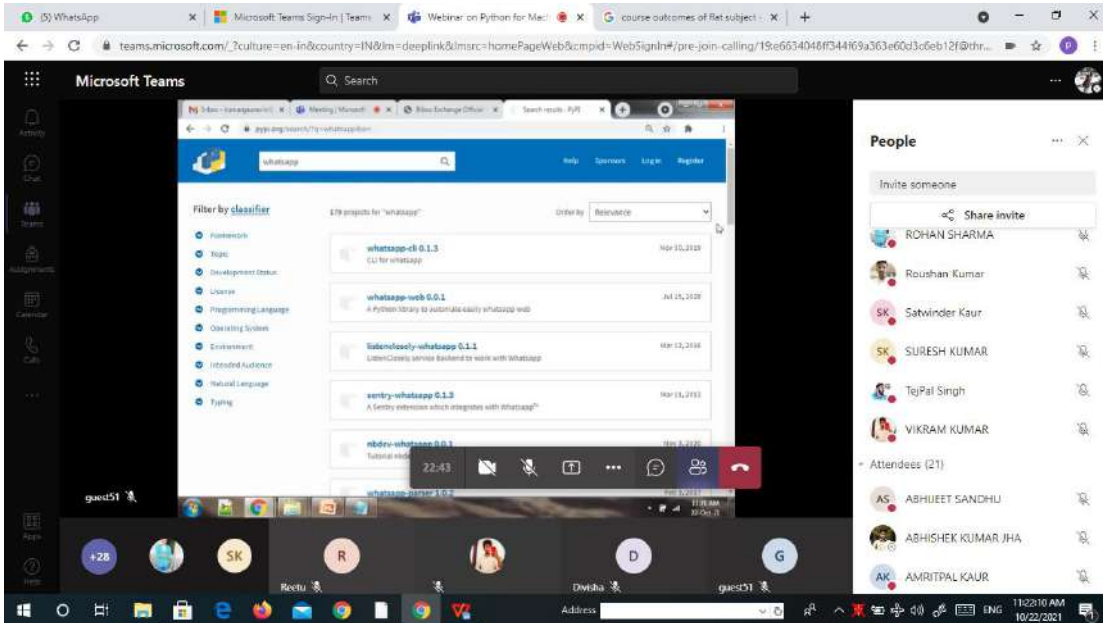
Date of Workshop: 22 October 2021

Program: Computer Science Engineering

No. of students participated: 49

Name of resource person: Mr Gaurav Kumar, Magma Research and Consultancy Services, Ambala Cantt., Haryana





Virtual workshop on Python for Machine Learning

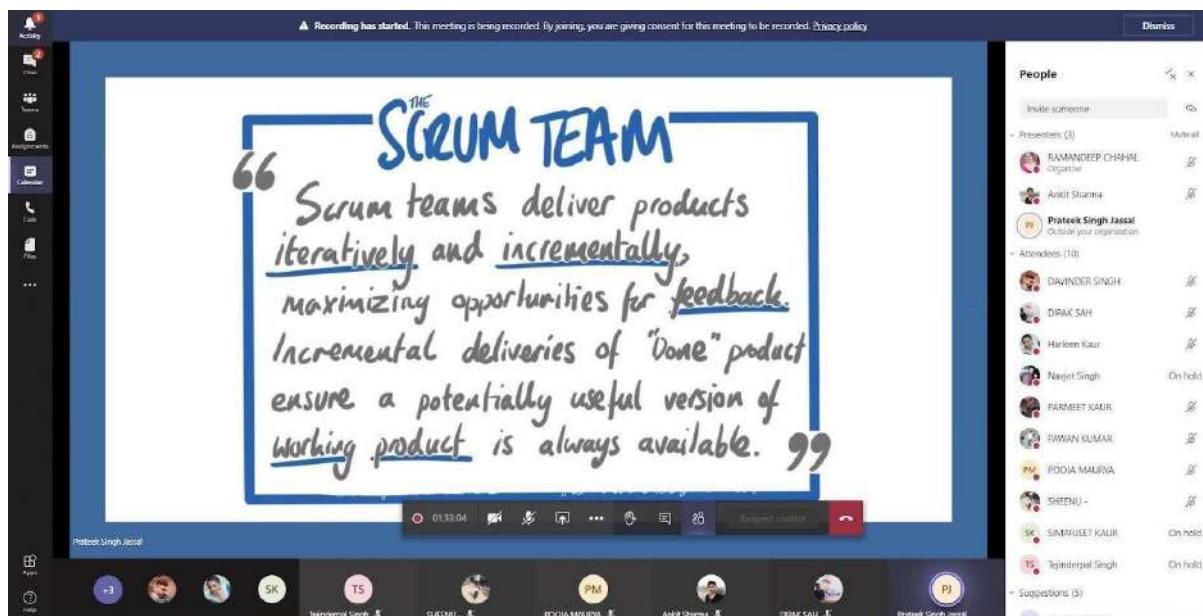
Expert Talk on Agile Methodology for Software Development

Date of event: 11 JULY 2020

Program: Computer science & Engineering

No. of Students participated: 45

Name of Resource Person: Mr Prateek Singh Jassal (Sr. Technology Analyst) at Infosys Chandigarh.





Expert talk on Agile Methodology for Software Development

Workshope on Research Methodology: Modeling of Hydro Power Generation at National Power Training Institute (NPTI) Nangal, Punjab.

Date : 14th October 2019 to 16th October 2019

Semester: 7th

Department: Department of Electrical Engineering

Number of students participated: 30

Name of Resource Person: Er. Motilal Senapati, Assistant Director NPTI Nangal, Punjab



Impact lecture by industry expert



Students at NPTI , Nangal

Industrial Visits “Thermal Power plant Lehra Mohabbat”

Date of visit: Apr 21, 2022,

Program: Electrical Engineering

Mentor Faculty: Er. Abhi Garg, Assistant Professor, Electrical Engineering, BFCET, Bathinda.



Students at Thermal Plant, Bathinda

Visit to PP industry





Visit to PP industry

Workshop on Solidworks

Date of Webinar: 05 October 2020

Program: Mechanical Engineering

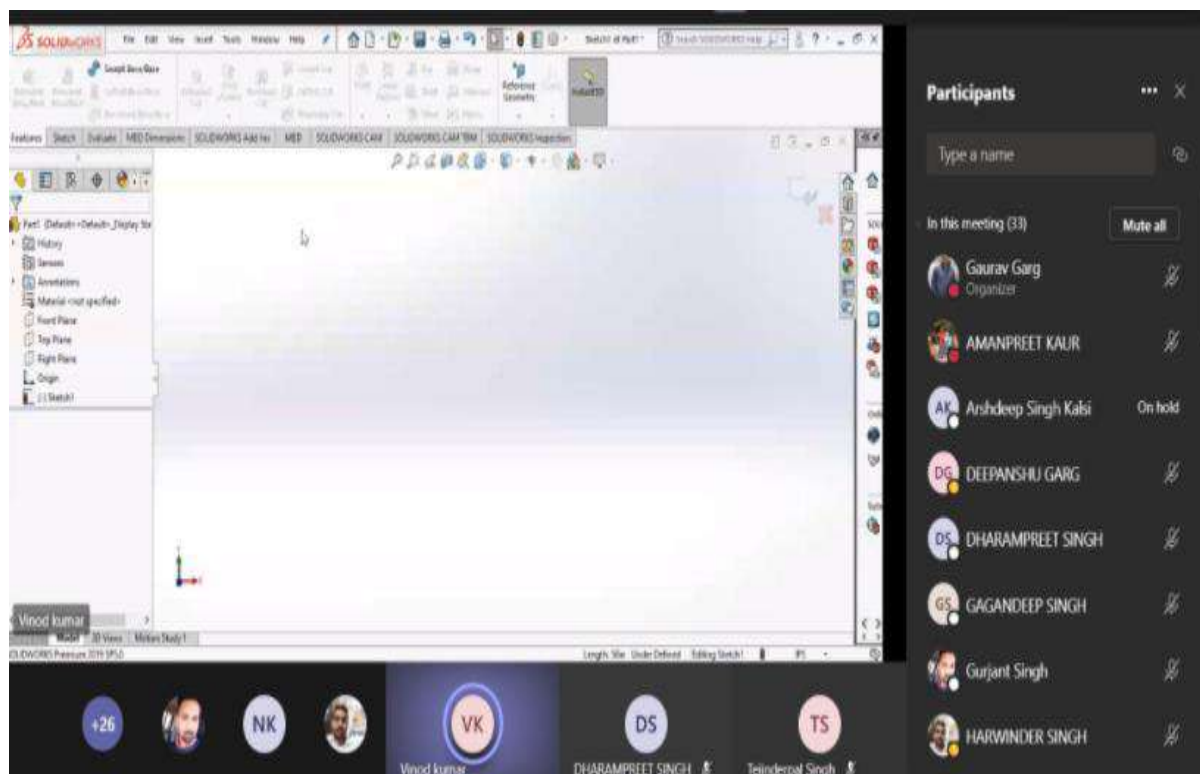
No. of Students who participated: 40

Name of Resource Person: Er. Vinod Kumar, C A D / C A M Expert and Trainer cum Assistant Professor, Punjab State Aeronautical Engineering College

BABA FARID COLLEGE OF ENGINEERING & TECHNOLOGY
Muktsar Road, Bathinda, Punjab (India)
Department of Mechanical Engineering
Organizes
WORKSHOP
on
SOLID WORKS
under collaboration with
Join Webinar on
Microsoft Teams
Dates: 5th October, 2020
Time: 1:00 PM to 3:00 PM
BABA FARID GROUP OF INSTITUTIONS
Bathinda, Punjab (India)
PANELIST
Er. Vinod Kumar
Assistant Professor
Punjab State Aeronautical Engineering College

41:32
Request control
Leave
Participants
Type a name
SATWANT SINGH
SHAI INEWAZ KHAN
Tejinderpal Singh
Vinod kumar
WAKAMBAM SINGH
Others invited (2)
GAURAV GARG
Gaurav Kumar
Invite others from conversation (1)
+24
Vinod kumar
GAGANDEEP SINGH
SHAI INEWAZ KHAN

Workshop on Solid works



Workshop on Solisworks

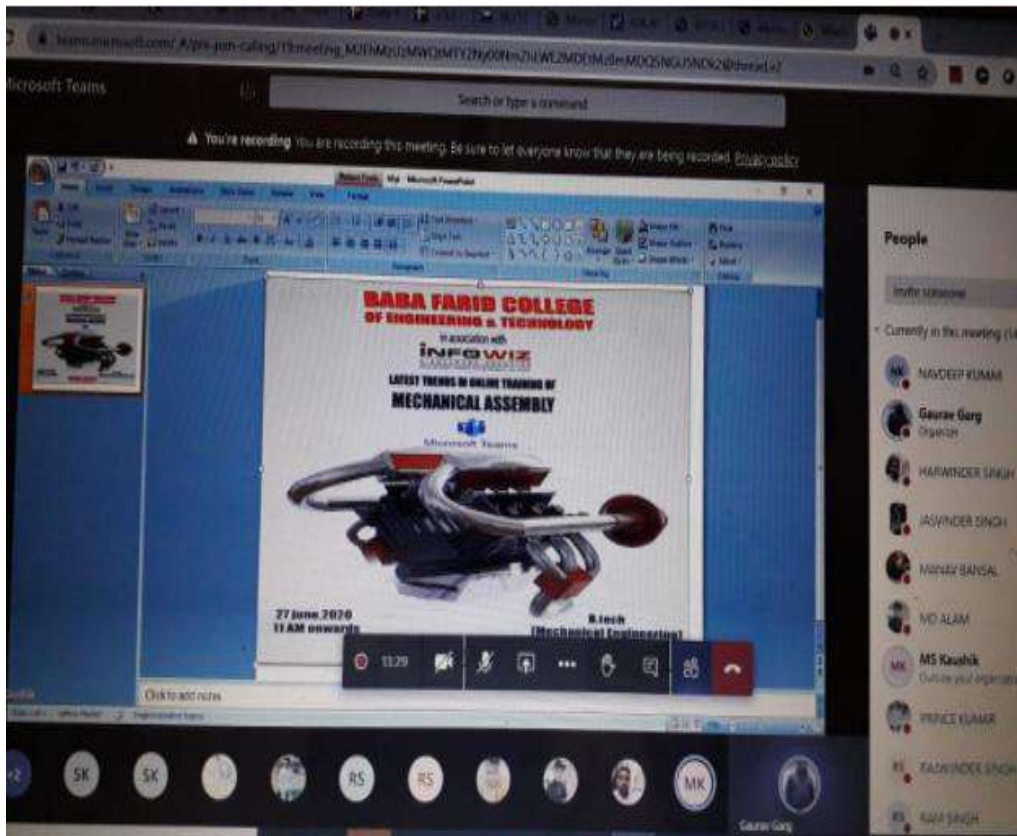
Webinar on Latest trends in online training of Mechanical Assembly

Date of Webinar: 27 June 2020

Program: Mechanical Engineering

No. of Students participated: 20

Name of Resource Person: Mr M.S Kaushik from Infowiz Bathinda



Impact lecture by Industrt expert



Impact lecture by Industry expert

Field visits/Survey Camp

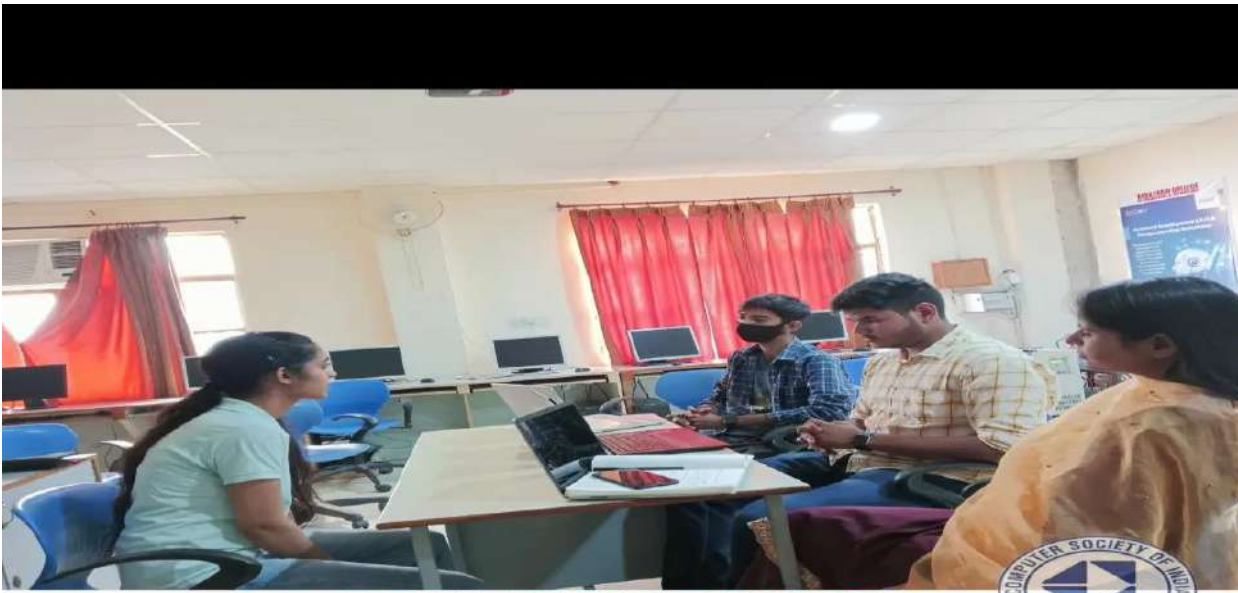


Students of civil Engineering department in a survey camp

2. Participative Learning

- Peer to peer learning:





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OF ENGINEERING & TECHNOLOGY**
Muktsar Road, Bathinda, Punjab (India)



Two Days summer camp- Fun with Electronics

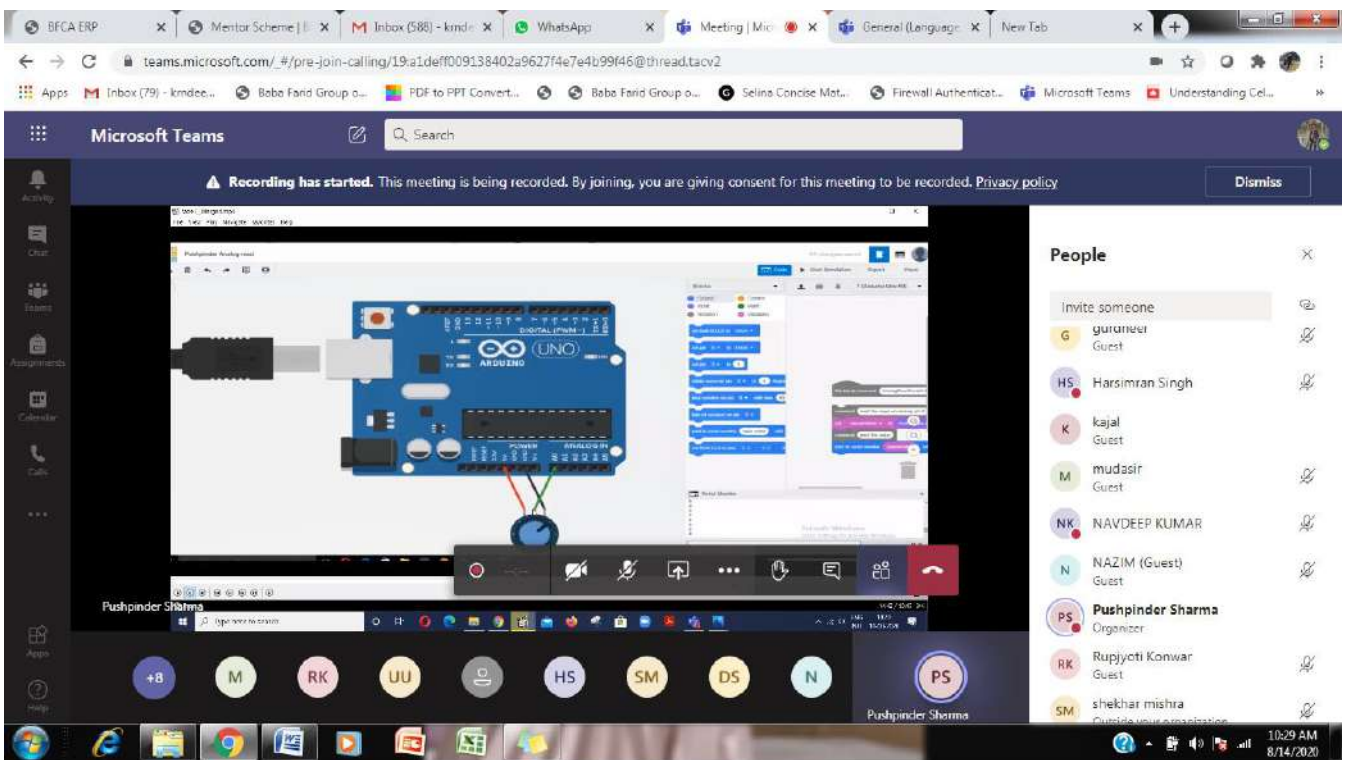
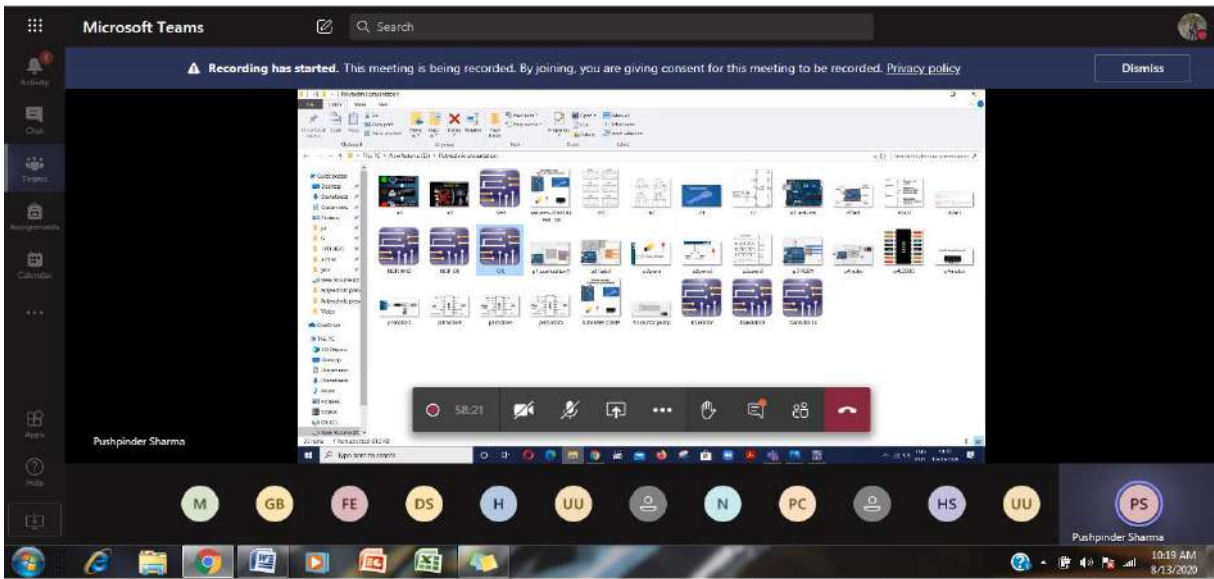
Date: 13 – 14 August 2020

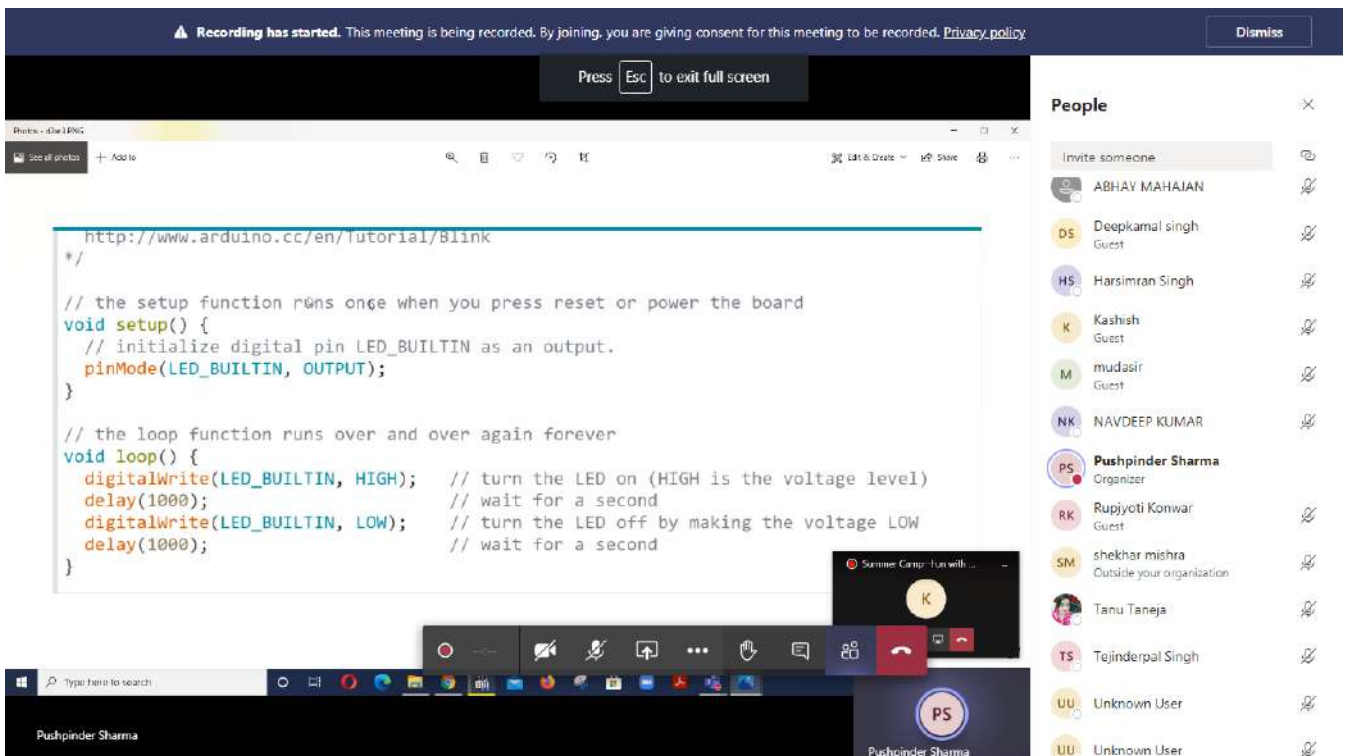
Duration/Time: Two days

Mode: Online

Number of students participated: More than 100 Participants joined

Resource Person: Er.Pushpinder Sharma, Assistant Professor in ECE





Photographs of two days summer camp –Fun with electronics
One Day Hands-on Practice workshop on “Raspberry Pi”

Date of Workshop: 30th October 2019

No of Participants: 15

Department: Department of Electrical Engineering

Semester: 5th and 7th

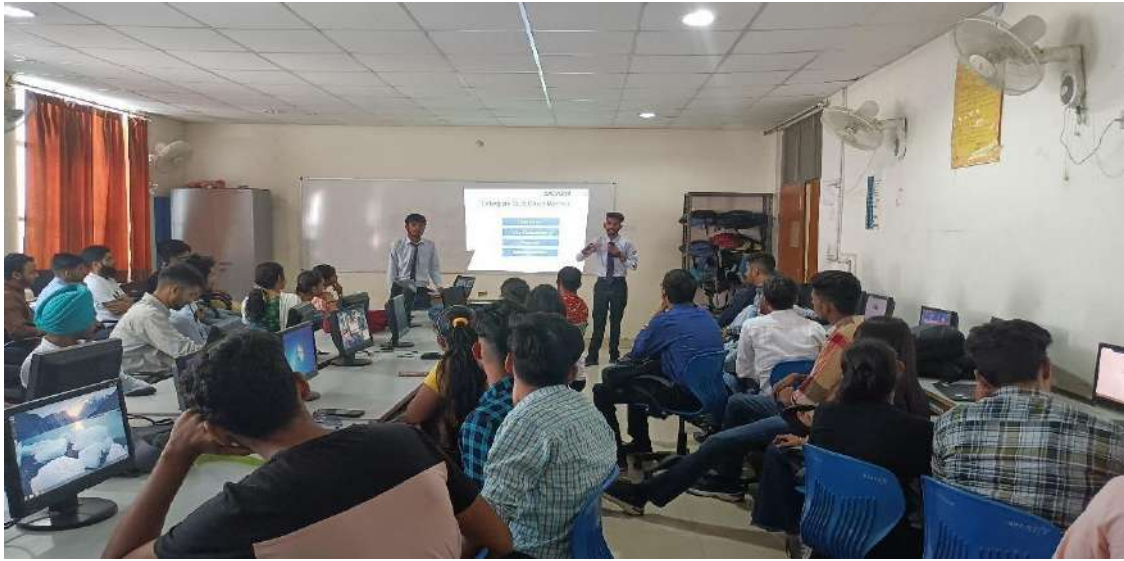
Name of Resource Person: Mr Surleen Kumar, Engineer at InfoWiz Bathinda



Displaying Various Projects at Science Fair Held at MRSPTU



Technical Fest at Chandigarh Group of Colleges on 3rd Nov 2022



Students of Robotroys Club Conducting a seminar on Robotics and technology



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3. Problem Based Learning Projects

Department of Civil Engineering always thrives to overcome gap by developing research and live projects, which provide hands-on experience to our students. The projects are developed in a structured format to ensure student learning. Some projects are briefed here:

Project Name: Replacement of FA with marble dust in Cement Concrete

Type of Project : Live Project

Area : Concrete Technology

Mentor : Er. Sandeep Maan, Assistant Professor, Civil Engineering

Students : Lalchhuanawma, Moirangthem Mangaalleiba, Parmveer Singh, Abhishek, Ankit, Mohsin Sikander, Samuel, Jaspal Singh, Jaspreet Singh

Project Brief : To study the influence of partial replacement of fine aggregates with marble dust and to compare the compressive and tensile strength. Marble dust is one of the pollutants so by using it in concrete we can reduce the pollution to great extent.



Students working on projects

Project Name: Replacement of FA with ceramic dust in Cement Concrete

Type of Project : Live Project

Area : Concrete Technology

Mentor : Er. Priya Mittal, Assistant Professor, Civil Engineering

Students : Mandeep Singh, Amit Kumar, Jaspreet Singh, Kunal Singla, Sahil, David, Gurpreet Singh, Simranjeet



BABA FARID COLLEGE OF ENGG. & TECHNOLOGY

Project Brief: To study the influence of partial replacement of fine aggregates with ceramic dust and to compare the compressive and tensile strength. To find the optimum quantity of ceramic dust that can be used effectively in concrete.



Students working on Project

Project Name: Design Optimization of Bricks

Type of Project : Research Project

Area : Advances in Building Technologies and Construction Materials

Mentor : Er. Rajan Vinayak & Er. Pankaj Mittal, Assistant Professor, Civil Engineering

Students : Ayush Raj, Neha, Janvi, Junaida Manzoor Sofi, Gurpreet Kaur, Mandeep Kaur, Himdeep Kaur, Rahul Sharma, Mohit Singla, Manpreet Singh, Karandeep Singh, Harpreet Kumar, Akashdeep Singh

Project Brief : Students working on design optimization of Brick to strengthen Brick Masonry. To analysis the brick design. To compare the Compressive Strength of New designed Brick with conventional design.



BABA FARID COLLEGE OF ENGG. & TECHNOLOGY



Students working on projects

Project Name: Design Grooved Brick

Type of Project : Research Project

Area : Advances in Building Technologies and Construction Materials

Mentor : Er. Pankaj Mittal & Er. Rajan Vinayak, Assistant Professor, Civil Engineering

Students : Ravi, Sikander, Vimal, Ajaldeep, Jagsir, Ajay, Lovepreet, Baljeet, Preet, Chandan Singh

Project Brief : Students working on design of grooved Brick to analysis the brick design. To compare the compressive strength of new designed brick with conventional design. Good architectural aesthetic view of Brick wall.

Department of Computer Science and Engineering

Live Projects/Research Projects

Project Name: Foodocity (e-Recipe Application)

Type of Project: Live Project

Area : Mobile Application Development

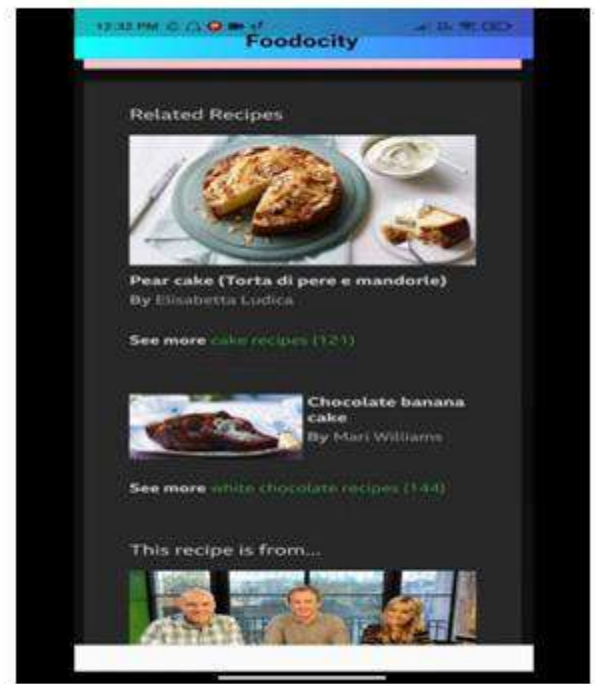
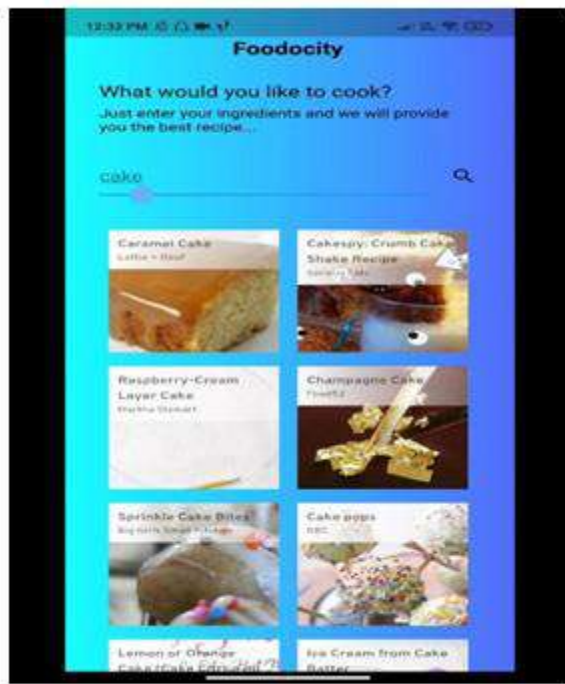
Mentor : Er. Divisha Garg, Assistant Professor, CSE

Students : Sejal Arora, Anmol Kumar, Kashish Chhabra, Mohit, PuneetGoyal



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Project Brief : Today, users are increasingly drawn towards the idea of cooking meals from the comfort of their homes. This application comes into the picture for a beginner who finds it difficult to search proper source of recipes. The aim of project work is to help users cook great food with simplified recipes that are easy to understand and even easier to prepare.



Project Name: Yeoman (Farmers' Utility Application)

Type of Project : Research Project

Area : Mobile Application Development

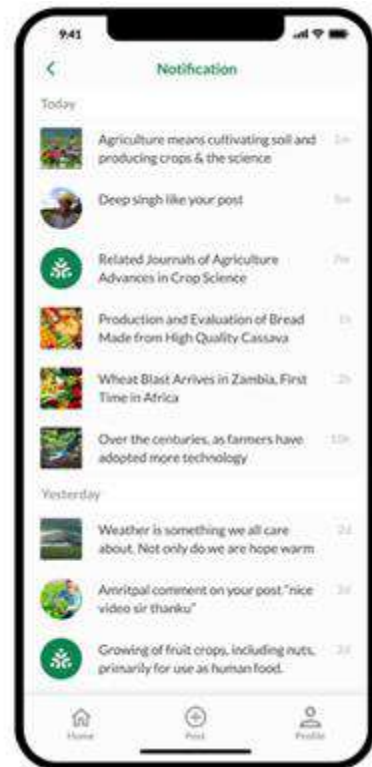
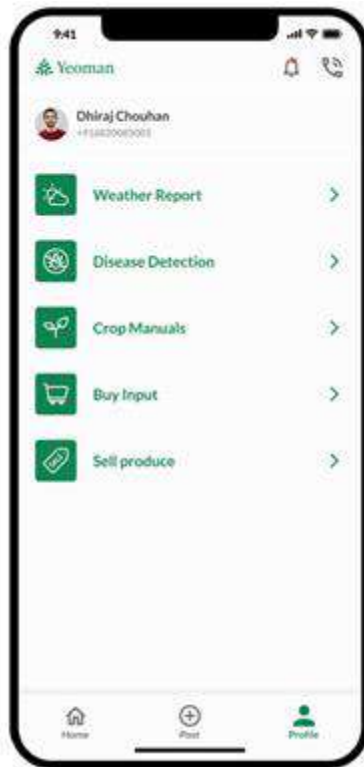
Mentor : Er. Divisha Garg, Assistant Professor, CSE

Students : DhirajChouhan, Balkrishan Singh

Project Brief : Farmers Utility Application provides all the agricultural needs of the farmers on one common platform. There are no language barriers in the application. Farmers can sell their crop production, buy or rent required machinery, forecast weather information, detect disease hit to the crop and ask for any other required help through helpdesk community provided.



BABA FARID COLLEGE OF ENGG. & TECHNOLOGY



Stdents working on live project under the guidance of teacher



Department of Electrical Engineering

Live Projects/Research Projects

Project Name: Wireless Charger for Mobiles

Type of Project : Live Project

Area : Information, Data, Network and Communication Sciences

Mentor : Er. Balwant Singh, Assistant Professor, EE

Students : Vivek Arora, Yashpal Singh, Arundeeep, Gursimrandeep Singh

Project Brief : Today, the mobile charger is essential for each and every person. In this technical era most of people have multiple cell phones of different companies. Each and every company have their own charging port due to which person should have different charges but with the help of this project person can use same charger for charging different mobiles because Wireless charging uses a base station or charging pad to transmit power using electromagnetic waves.



Project Name: Automatic Watering System for plants

Type of Project : Research Project

Area : Design Automation and Communication Sciences

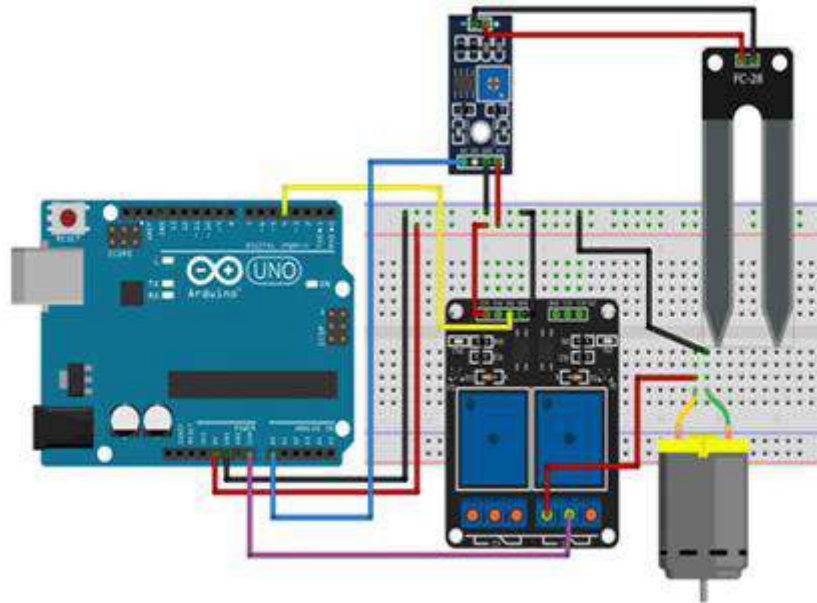
Mentor : Er. Balwant Singh, Assistant Professor, EE

Students : Harpreet Kaur, Vicky, Simranjot Singh, Durgesh



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Project Brief : Today, water shortage is the biggest issue in the world. The water level below the earth is decreases day by day. The irrigation is the main problem through which water is wasted. With the help of this project water wastage will be reduce and save the water and energy with the help of weather forecasting and soil moisture sensors after which the rain water will be utilised accordingly.



Department of Mechanical Engineering

Students working on Various Projects



Working on Electrical Vehicle Project



Working on Electrojet Drilling Project

Patents

Congratulations!!

BABA FARID COLLEGE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING
for
PATENT PUBLICATION
on
ADJUSTABLE DRAIN CLEANER MACHINE
Application Number: 202111040325

Inventors

 Er. Harsimran Singh HoD, Electrical Engineering	 Dr. Nimisha Singh HoD, Computer Science Engineering	 Dr. Manpreet Singh Assistant Professor, Mechanical Engineering
 Mr. Sachin Kumar Bath (2017-2021)	 Mr. Jashandeep Singh Bath (2017-2021)	 Mr. Poojanjeet Singh Bath (2017-2021)

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Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

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GROUP OF INSTITUTIONS
Bathinda, Punjab (India)

Congratulations!!

BABA FARID COLLEGE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING
for
PATENT PUBLICATION
on
AUTONOMOUS MULTIPURPOSE AGROTURTLE
Application Number- 202111043891

Inventors

 Dr. Manpreet Singh Assistant Professor, Mechanical Engineering	 Dr. Jyoti Bansal Principal, BFCET
 Mr. Navdeep Singh Bath (2018-2021)	 Mr. Chand Prakash Bath (2018-2021)

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Internal Annual Hackathone 2023



Student projecting the project proposal in Internal Hackathone 2023



Student projecting the project proposal in Internal Hackathone 2023



Students getting the expert views in Internal Hackathone 2023



BABA FARID COLLEGE OF ENGG. & TECHNOLOGY



Students presenting in Internal Hackathone 2023



Faculty using ICT tools in teaching



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Faculty using ICT tools in teaching