



**Birla Vishvakarma
Mahavidyalaya
&
IE(I) Electronics'
Students Chapter**

Electronics Engineering Department

**Annual Report
2019-2020**

CHAPTER CODE E-388

IE(I) ELECTRONICS STUDENTS' CHAPTER, BVM ENGINEERING COLLEGE

CHARUTAR VIDYAMANDAL

CVM was established in the year 1945 by Shri Bhaikaka and Shri Bhikhubhai as a charitable trust with the prime objective of rural development through education to bring about the social awakening, social uplift, and enrichment. In the 1990s when, Dr. C L Patel took over the reign of CVM as the chairman, the country was facing a major economic and ideological change paving the way for globalization and liberalization and through his dynamic leadership, missionary zeal and visionary outlook. CVM rejuvenated the ongoing education system but added a modern education campus at new Vallabh Vidyanagar.

Recently, Er. Bhikhubhai Patel took the charge. He is a visionary personality with a goal to enhance the quality of education using recent technological advancements. It runs 48 institutions from kindergarten to post doctorate, almost in all branches of education and catering more than 50, 000 students from 21 states and 12 countries across the world.

B.V.M. ENGINEERING COLLEGE

Birla Vishvakarma Mahavidyalaya Engineering College was established in 1948 from donations made by the Birla Education Trust on the behest of Sardar Vallabhbhai patel, the first home minister of independent India. The college was inaugurated by Lord Mountbatten, the governor general of India on 14 June 1948, and rose to prominence under the stewardship of prof. Junarkar and prof. K.M. Dholakia. It was one of the first few colleges in India that adopted the progressive credit system of relative grading. The college has awarded degrees to over 17,000 graduates, and has its alumni spread across the globe.

IEI ELECTRONICS STUDENTS' CHAPTER

The Institution of Engineers (India) [IEI] is a statutory body to promote and advance the engineering & technology, established in 1920 and incorporated by Royal Charter in 1935. It is the largest multi-disciplinary professional body of engineers encompassing 15 (fifteen) engineering disciplines with a corporate membership of over 2 lakhs, and serving the nation for more than 9 decades. The IEI has its headquarters located in Kolkata with national presence through more than hundred centers and several overseas chapters, Foras and Organ. Our IEI Electronics Students' Chapter at BVM Engineering College also organizes various workshops, events, expert talks and industrial visits for the benefit of the students.

ELECTRONICS ENGINEERING DEPARTMENT

The department of electronics engineering was established in 1984 at BVM. Dedicated faculty members, meritorious students, well equipped laboratories, and skilled support staff are major strengths of the department. The program has been granted autonomy by the university grant commission from academic year 2015-16.



Activities

WORKSHOP ON ANTENNA DESIGN USING HFSS	26TH JUNE 2019
WORKSHOP ON MACHINE LEARNING	13TH JULY 2019
ORIENTATION OF 1ST YEAR STUDENTS	18TH JULY 2019
WORKSHOP ON NANOTECHNOLOGY	19TH JULY 2019
EXPERT TALK ON RECENT TRENDS IN ANTENNA	27TH JULY 2019
WORKSHOP ON "INTRODUCTION TO ANECHOIC CHAMBER"	4TH SEPTEMBER 2019
WORKSHOP ON "INTRODUCTION TO MATLAB"	4TH & 5TH SEPTEMBER 2019
EXPERT TALK ON REAL TIME OPERATING SYSTEM	7TH SEPTEMBER 2019

WORKSHOP ON I.O.T.	8TH SEPTEMBER 2019
WORKSHOP ON “INTRODUCTION TO PCB PROTOTYPE MACHINE”	14TH SEPTEMBER 2019
INDUSTRIAL VISIT TO AIMTRON	17TH SEPTEMBER 2019
INTERACTION WITH M.D. OF ENTUPLE TECHNOLOGIES	3RD OCTOBER 2019
EMBEDDED SYSTEMS COURSE PROJECT EXPO	5TH OCTOBER 2019
WORKSHOP ON BASIC OF ROBOTICS	12TH & 13TH OCTOBER 2019
ANTENNA MEASUREMENT TECHNIQUES	31ST JANUARY & 1ST FEBRUARY 2020
MEGA EVENT “ELECTROVATION”	5TH & 6TH MARCH 2020

WORKSHOP ON ANTENNA DESIGN USING HFSS

Date: 26th June 2019

Expert: Prof. Parul Panchal

No. Of Students:30

IE(I) Electronics organized a workshop on dipole antenna design using HFSS software on 26th June 2020. 30 participants attended the workshop. It was a hands-on session taken by Prof. Parul Panchal. The workshop was organized for 3rd year electronics engineering students. The students were explained about HFSS software and its usefulness in designing an antenna.

Thereafter the students designed a small dipole antenna for different range of frequencies and analyzed their design and obtained the gain plot for the antenna, S parameter plot, Y Parameter plot, Radiation Plot and observed how they change with the change in dimensions and shape of the antenna.



Prof. Parul Panchal explaining the students about HFSS software

WORKSHOP ON MACHINE LEARNING

Expert: Dr. Kiran Trivedi

Date: 13th July ,2019

No. Of participants: 40



The banner features a dark blue background with a glowing network of blue nodes and lines. At the top, two circular logos are displayed: the left one is for BVM Engineering College and the right one is for The Institution of Engineers (India). The central text reads: "The institution of Engineers (India) Students' chapter, Electronics Organises workshop on Machine learning". Below this, it states "IE(I) member: NIL" and "Non-IE(I) member:20 rupees". Further down, it says "Full Length 8hr. workshop". At the bottom left, the date "Date: 13-07-2019", time "Time: 9:00 A.M.", and venue "Venue: LRUC Hall." are listed. At the bottom right, it mentions "Expert Kiran Trivedi" and "For further details contact Preeti Kumari (7046831670)".

Banner of Machine Learning Workshop



Faculty Advisor Prof. Parul Panchal felicitating the expert



Dr. Trivedi explaining the students about M.L.

In this workshop, Nvidia board was used for the prototyping and development process. The board mentioned above was circulated (hardware) among the students in order to familiarize with them. Students were explained

the salient features of the graphics card enabled processor, its general uses, advantages and disadvantages. Students were taught how to use its IDE tool for programming and were also taught the steps on how to install the IDE in WINDOWS environment. The installation and board explanation was completed in the first session.

During the second session, students were taught about various commands & instructions used in Anaconda IDE and about the basics of machine learning, from how this form of programming started to its future implications on the lives of human beings. He also gave in-depth explanation about the tools in Jupyter notebooks to the students. The students were taught their first program of LED blinking using Arduino. They were shown hardware as well as software simulation. To check their level of understanding, students were asked to create their own blinking program with different delays and port pins.

All students were able to successfully create their own programs and run the simulations. Students were taught their second program of interfacing DHT11(Digital Humidity & Temperature Sensor) with Arduino. Hardware simulation as well as software simulation was shown to the students. To check their level of understanding, students were asked to create their own program with different delays and port pins. At the end of the workshop the students were ready to create their own mini projects using Arduino.



Group photo with the participants and faculty



ORIENTATION FOR 1ST YEAR STUDENTS

Date: 18th July 2019

No. Of Studnets:90

IE(I) Electronics Students' Chapter organized an orientation program for the 1st-year students of Electronics Engineering Department on 18th July 2019 at 3:00 PM. 90 Students were present during the orientation program. All the faculties of the Electronics Department and the team members of IE(I) Electronics welcomed the 1st-year students and each faculty member gave a brief introduction about themselves. H.O.D. Dr. T.D. Pawar, Dr. J.M.Rathod, Prof Parul Panchal and Preeti Kumari briefed the students about the college and IE(I) Electronics Students' Chapter and encouraged them to take part in all the activities enthusiastically.



H.O.D. Dr. T.D. Pawar briefing the students



First year students,2019

WORKSHOP ON NANOTECHNOLOGY

Date: 19th July 2019

Expert: Dr. Rutu Parekh,

No. Of participants: 30



Dr. Rutu Parekh explaining the students about Nanotechnology

Workshop on “Nanotechnology” began with what nanotechnology is and how it is useful. Dr. Parekh gave the students a broad idea on nanotechnology and how it will be useful in near future. She explained about transistors, BJT, MOSFET and CMOS and their diagram, working, uses and how they are related to nanotechnology. She has also recalled our 10th standard nanotechnology topics which we have studied earlier and has given a vast idea of it and also have related that topics with the emerging future technologies. She has also gives us the vast idea of how nanotechnology is going to be useful in future like in making of bullet proof jackets.



Dr. Rutu Parekh explaining about Nanotechnology



Group photo with the participants and volunteers of the workshop.

EXPERT TALK ON RECENT TREND IN ANTENNA

Date: 27th July 2019

Expert: Er. Himanshu Ankleshvariya

No. of Participants: 70

IE(I) Electronics Students Chapters has organised expert talk on Recent Trend in Antenna on 27 July 2020. 70 participants present have participated for this expert talk. It was organised for the 1st year students. Er. Himanshu Ankleshvariya from System Level Solutions Private Limited was the expert of this talk. He had given the idea about research in antenna.



First year students attending the expert talk



Experts of the workshop with the faculty

WORKSHOP ON “INTRODUCTION TO ANECHOIC CHAMBER”

Date: 4th September 2019

Expert: Er. Gaurav Jindal



Our faculty with Er. Gaurav Jindal

The primary focus of this workshop was to provide the basics of the anechoic chamber to our students and faculties. Er. Gaurav Jindal, application manager & consultant at Applied Concert Group, provided the detailed functioning of the anechoic chamber. Anechoic chambers are shielded rooms used for Electromagnetic Interference(EMI) and Radio Frequency(RF) testing. The shielding attenuates outside RF energy, simulating an Open-Area Test Site (OATS). The chamber's inner walls are lined with absorbing material, which for radiated emissions, minimizes reflections emitting from the equipment under test (EUT). For radiated susceptibility tests, an antenna emits signals intended to disrupt the EUT's operation. Er. Umesh Paldhikar, Entuple Technologies Pvt. Ltd., provided details about the HFSS software. The workshop was arranged for the final year students.

Outcomes of the workshop:

The students are now-

- able to measure various parameters of an antenna using the anechoic chamber.
- able to design & simulate the microstrip antenna using HFSS software.



Group photo with the Principal, Faculties and the participants



WORKSHOP ON “INTRODUCTION TO MATLAB”

Date: 4th & 5th September 2019

Experts: Yukti Patel & Vrushal Vara(EL 3rd Year)

No. Of Participants: 40

A two-day workshop on "INTRODUCTION TO MATLAB" was organized by IE(I) Electronics on 4th and 5th September 2019 at F-block Microcontroller Lab F-104 where 40 students have actively participated. Both sessions started at 9:00am and continued till 10:30 am.

The session started with the introduction to MATLAB their advantages, limitations and applications. After that students have done the practical on MATLAB which is installed in our lab PC's. Started the practical session with the introduction to MATLAB environment it's workspace, editor window and current folder. Which is then followed by its basics features. Then basics mathematical operations like addition, subtraction, multiplication, division, logarithms, square root, exponential functions, sinusoidal functions and many more operations were performed by the students.

Then we started with matrix. Its initialization basics mathematical operations on matlab like addition, subtraction, multiplication, inverse and many more functions were covered on the first day.

On the second day of workshop we started with the Matrix. Inbuilt functions of matrix like identity matrix, matrix of ones, rank, order determinant, adjoint and many functions of matrix. Difference between matrix and array. Then we proceed towards the graphical representation on the signal. Sinusoidal functions, exponential, power, logarithmic, linear functions and their graphical representation is also taught.

Outcomes of the workshop:

- Students got familiar with MATLAB environment.
- They also learned how to use MATLAB for mathematical calculations and for graphical interpretation of any signal or a system.



EXPERT TALK ON REAL TIME OPERATING SYSTEM

Date: 7th September 2019

Expert: Mr. Hiren Soni

Faculty Co-ordinators: Dr. D.M. Patel & Prof. Anita Bhatt



Faculty Co-ordinators with the expert, Mr. Hiren Soni

RTOS is a real-time operating system for microcontrollers that makes small, low-power edge devices easy to program, deploy, secure, connect, and manage. A microcontroller contains a simple, resource-constrained processor that can be found in many devices, including appliances, sensors, fitness trackers, industrial automation, and automobiles. Many of these small devices can benefit from connecting to the cloud or locally to other devices, but have limited computing power and memory capacity and typically perform simple, functional tasks. Microcontrollers frequently run operating systems that may not have built-in functionality to connect to local networks or the cloud, making IOT applications a challenge. RTOS helps to solve this problem by providing the kernel to run low-power devices as well as software libraries that make it easy to securely connect to the cloud or other edge devices, so you can collect data from them for IOT applications and take action.



Students attending the RTOS workshop



IOT WORKSHOP

Expert: Krupal Kumar Kapatel

Date: 8th September 2019

No. Of participants: 100

The workshop on Internet of Things(IOT) was held on 8th September 2019 from 11:00am to 2:00 pm. Participants from diverse fields like electronics engineering, mechanical engineering and production engineering took part in the workshop. Mr. Krupal Kumar Kapatel shared his insights, real life scenarios, practical use cases and their solutions on IOT and hands on development using IOT kits. He gave students a brief introduction on IOT, it's applications and various automations through IOT. He introduced the students with the sensors and its application.

He has also given emphasis on various types of sensors like temperature sensor DHT11, ultrasonic sensor, infrared sensor, RFID, etc. Devices like Nodemcu, Raspberry Pie, Jatson Nano which are having inbuilt Wi-Fi connectivity were also explained. He then proceeded towards working of IOT, chain of IOT, connectivity of nobes with gateways wirelessly and transmission of data from gateway to internet and then to the laptop or mobile. Explaining further he gave examples of humidity, pressure and motion sensors, where the output data from the sensors is received in a mobile application.



Students and faculty attending the IOT Workshop

Various IOT protocols like HTTP, MQTT and some basic protocols like TPC and UDP were also explained briefly. He further gave emphasis on MQTT protocol because this protocol is widely used nowadays in Whatsapp, Facebook and in many other applications. Working of MQTT broker and server by giving practical examples is also explained in brief. Wildcard support in MQTT, list of MQTT brokers, MQTT connections were also explained. At the end he explained us briefly the applications of IOT by linking the theoretical concepts which he covered earlier so that we could get a clear idea of how iot works. We are very much thankful to cvm for their support and providing the permission of lruc hall. We are also thankful to principal i. N. Patel sir, hod p. M. George sir and i.e. Convener b. S. Patel sir for motivation and support. Also we are very much thankful to teqip iii, bvm for granting the expenses.

WORKSHOP ON “PCB PROTOTYPE MACHINE”

Date: 14th September 2019

Experts: Mitul Vavadiya

No. Of. Participants: 55

The primary focus of this workshop was to provide the working of PCB prototype machine for the first year students. Engineers from the Royal Sales & Corporation conducted the demo session of the PCB prototype machine. They also demonstrated the advantages of machine like high accuracy, speed and ease. It has several features which can make the PCB fabrication easier. A demo of antenna fabrication with PCB prototype machine was conducted by engineers.

Following are the outcomes of the courses:

- able to fabricate dipole, rectangular patch, circular patch, triangle patch, split ring patch antenna using the PCB prototype machine.
- able to design two-layer PCB using machine.



Engineers from Royal Sales & Corporation explaining about the PCB Prototype Machine

INDUSTRIAL VISIT TO AIMTRON

Date: 17th September 2019

No. Of participants: 80

Faculty Co-ordinators: Prof. Parul Panchal & Prof. Mohan Khambalkar



Group photo with the students and Faculty Co-ordinators

Our industry visit started with the explanation on why Aimtron was constructed? What are aims of it? Why people choose Aimtron? All the students saw the machines as well as their workings. The guider gave the guidance about safety measure, he also explained the working of machines and its various parts. “Each machine has its own uniqueness” was the lesson the students learned from it. The most important part that all liked about Aimtron was it is an international full service company that provides cost effective, integrated and high quality solutions.

INTERACTION WITH THE M.D. OF ENTUPLE TECHNOLOGIES

Date: 3rd October 2019

No. Of Students: 30

The M.D. of Entuple Technologies, Bangalore, Mr. Mehta interacted with the students of Electronics Department, Birla Vishvakarma Mahavidyalaya on 3rd October 2019. The interaction was focused on career guidance. The interaction included a questioner by Mr. Mehta, in which the students presented their career plans. Mr. Mehta then provided an insight on the opportunities and alternative career options in various sectors for Electronics and EC engineers.

Students were also introduced to their corporation, Entuple Technologies, and its role in Electronics industry. The interaction was useful for students to gain an insight in their career planning and introsuction a new perspective towards the industry. Students were accompanied by Dr. T.D. Pawar, the head of department(Electronics) and Dr. J.M. Rathod, professor, Electronics Department.



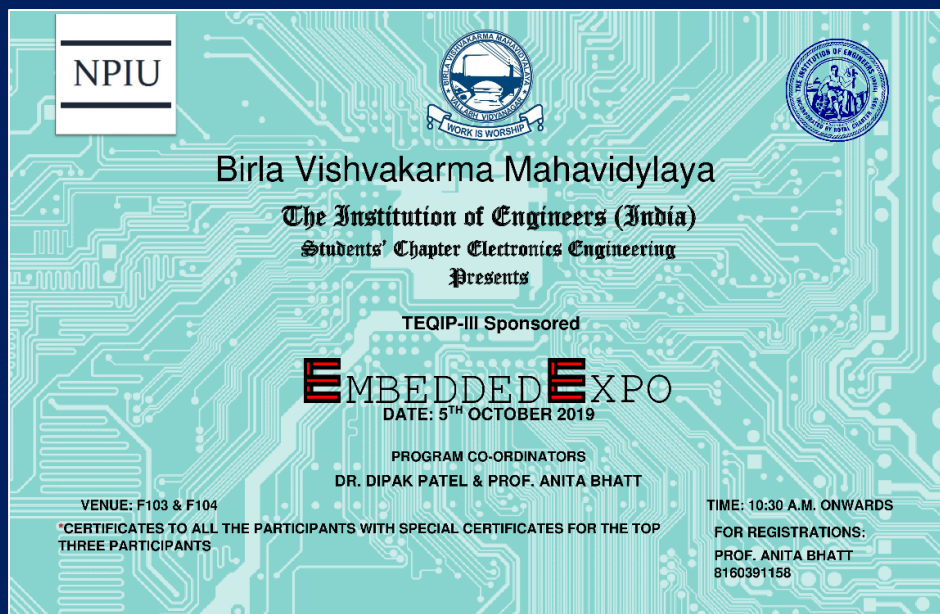
Mr. Mehta, MD of Entuple Technologies interacting with the students

PROJECT EXPO: EMBEDDED SYSTEMS

Date: 5th October 2019

Expert: Mr. Keyur Chauhan

Faculty Co-ordinators: Dr. D.M. Patel & Prof. Anita Bhatt



Banner of Embedded Expo

The expo was about various project designed in Embedded System Design subject offered during the 7th semester. 76 students participated in the Expo. They presented various projects on FPGA, VLSI, Image Processing and Robotics.

Winners of the Expo:

- 1st rank: Neol Solanki & Neel Tailor for “Image Processing using FPGA”.
- 2nd rank: Dhairya Atit & Isha Vakil, Suman Panchal for “Propeller Display”
- 3rd rank: Parth Makwana & Kewal Patel for “Automatic Pick & Place Arm”



Group photo with the expert and faculties

WORKSHOP ON BASICS OF ROBOTICS

Expert: Er. Pritesh Kukadiya & Tirth Pandya

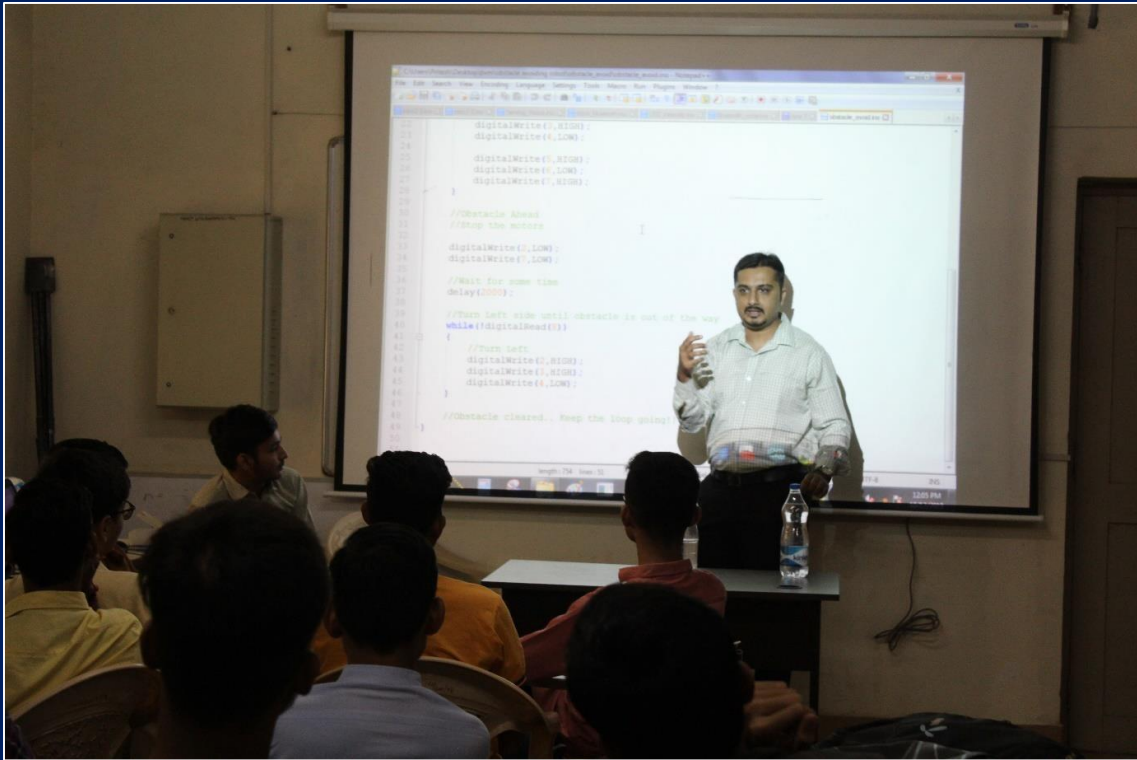
Date: 12th & 13th October 2019

No. Of participants :45

Electronics department organized two days' workshop on "Basic of Robotics" organized under IE(I) Student Chapter & TEQIIP-III on 12th & 13th October 2019 at F-104. 45 students of 1st year Electronics actively participated in this session. The session was conducted by Er. Pritesh Kukadia, Field Application Engineer at SLS Pvt. Ltd. and Tirth Pandya, Embedded System Developer at Gipitronix Pvt. Ltd. The main agenda of this workshop was to enhance the knowledge of students in the area of robotics.

Following concept were covered in the session:

- Introduction to robotics and part of robot
- Introduction to Arduino UNO board
- Introduction to ARDUINO IDE
- Basic programs and introduction to various sensors
- Introduction to various motors and interfacing of motor with the UNO board
- Assembling of robot parts
- I.R. Sensor interfacing and practice
- Object Detection Robot
- Introduction to Bluetooth and practise
- Commanding the Bluetooth module using an application
- Bluetooth Controlled Robot
- Robot Race





Expert Er. Pritesh Kukadiya explaining the students about Robotics



H.O.D Dr. T.D. Pawar, EL Dept, presenting Certificate of Appreciation to the expert Mr. Tirth Pandya

ANTENNA MEASUREMENT TECHNIQUES

Date: 31st January & 1st February 2020



Birla Vishvakarma Mahavidyalaya Engineering College
(An Autonomous Institution)
Managed by Charutar Vidya Mandal

TEQIP-III & IE (I) V V Nagar Local Centre Sponsored & approved
Two Day's National Workshop
On
ANTENNA MEASUREMENT TECHNIQUES



AMT-2020
31st January
to 1st February, 2020

Organised By
Electronics Engineering Department, BVM Engineering College



The day 1 of AMT-2020 was full of enthusiasm and joy for all the delegates as well as the organizing team of AMT-2020. The delegates had informative and wonderful interactions with our distinguished speakers on that day.

The day 1 included the following events:

- Inauguration ceremony of the national workshop on antenna measurement techniques.
- Session on research scope and insights for antenna researchers.
- Session on graphene patch antenna.
- Session on antenna design using machine learning.
- Session on antenna measurement i and ii at ELARC coe.

Day 2 (1st February 2020): AMT-2020

It was another exciting day of amt-2020 where all the delegates were more excited and enthusiastic. The entire day was divided into various sessions which were:

- Session on antenna parameters and measurements
- Session on negative refractive index material inspired resonator
- Session on antenna measurement at ELARC coe
- Session on HFSS software
- Session on CST studio software
- Quiz session
- Valedictory function



Group photo with the delegates and faculties of BVM



H.O.D Dr. T.D. Pawar & Secretary Dr J.M. Rathod

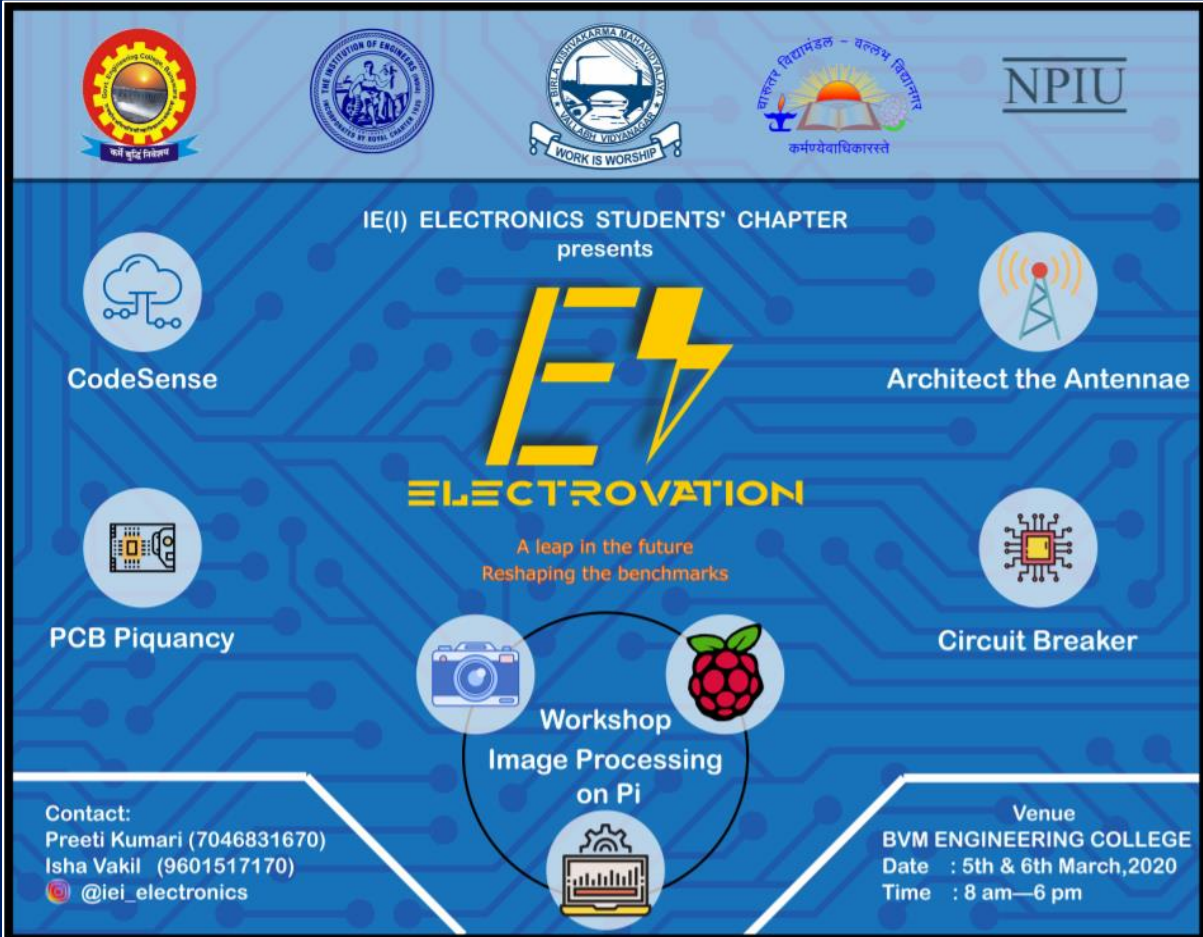


The expert explaining about Antenna Measurement techniques

ELECTROVATION

Date: 5th & 6th March 2020

No. Of participants: 110



The banner features a blue background with a circuit board pattern. At the top, there are five logos: a gear with a sun, The Institution of Engineers (India), a lamp with a book, a sun with a book, and NPIU. Below the logos, it says "IE(I) ELECTRONICS STUDENTS' CHAPTER presents". The central text reads "ELECTROVATION" in large yellow letters, with "A leap in the future Reshaping the benchmarks" below it. Surrounding the central text are icons for "CodeSense" (cloud and circuit), "Architect the Antennae" (antenna), "PCB Piquancy" (circuit board), "Circuit Breaker" (chip), and "Workshop Image Processing on Pi" (camera, Raspberry Pi, and laptop). At the bottom left, contact information is provided: "Contact: Preeti Kumari (7046831670), Isha Vakil (9601517170), @iei_electronics". At the bottom right, the venue and schedule are listed: "Venue: BVM ENGINEERING COLLEGE, Date: 5th & 6th March, 2020, Time: 8 am—6 pm".

ELECTROVATION Banner

Events:

- Code Sense
- PCB Piquancy
- Architect the Antennae
- Circuit Breaker

Workshop:

- Image Processing on Pi

ELECTROVATION INAUGURATION

Chief Guest: Shri V.H. Patel

Inauguration was organized at the BVM auditorium and more than 100 students were present during the inauguration ceremony. Shri V.H. PATEL honourable joint secretary of CVM was the chief guest of this event. On dais our principal Dr. I.N. Patel, Shri V.H. Patel, Dr. S. D. Dhiman TEQIP III coordinator, HOD of Electronics Department Dr. T.D. Pawar , Er. Bhaskar Trivedi and Er.Vishal Kharadi were present.

The event started with lighting the lamp followed by prayer. Thereafter student member of IE(I) Yukti Patel gave a speech on ELECTROVATION. After which the Principal encouraged students to participate in such events and explained there



The honourable guests lighting the lamp

benefits to students. Then Dr. J.M.Rathod delivered the vision of ELECTROVATION. Our honourable chief guest Shri V.H.Patel spoke on the notable insights of BVM. Dr. T.D.Pawar gave insights of Electronics Department. Dr. S.D. Dhiman briefed about TEQIP III.





Our Principal Dr. I.N. Patel felicitating the chief guest Shri.
V.H. Patel

Team Members of 2019-2020

- Preeti Kumari – Chairman of IE(I)
- Isha Vakil – Secretary of IE(I)
- Suman Panchal – Logistics lead of IE(I)
- Parth Makwana – Tech and Tour Lead
- Utsav Fuletra – Publicity Lead
- Shyam Kaneriya – Documentation Lead
- Dhruvi Suchak – Team Logistics

Then Prof. Parul Panchal introduced the new team members.

Team Members 2020-2021

- Yukti Patel – Chairman of IE(I)
- Vrushal Vara – Secretary of IE(I) and Tech and Tour Lead
- Vivek Solanki – Finance Lead
- Swati Pandita – Publicity Lead
- Rishabh Mishra & Meet Dalwadi – Graphics Lead
- Pranav Mehta – Photography Lead
- Abhishek Singh – Documentation Lead
- Dhaval Kambaliya – Team Finance

The session ended by Thanks Note given by Isha Vakil Secretary of IE(I) Electronics.

GLIMPSE OF THE INAUGURATION CEREMONY



Principal Dr. I.N. Patel addressing the audience



Shri V.H. Patel addressing the audience



Dr. T.D. Pawar, H.O.D EL, addressing the audience



Faculty of BVM Electronics Department



Prof. Parul Panchal felicitating Dr. T.D. Pawar



THE AUDIENCE



Group Photo with the ELECTROVATION Team



CODESENSE

Event Managers: Suman Panchal & Alkesh Panchal

No. Of Participants:79

An expert talk on IOT & Embedded Systems was delivered by Er. Bhaskar Trivedi at the BVM Auditorium from 12pm to 1pm. This technical event was associated with IOT & Embedded Systems knowledge. Three different rounds were conducted.

Round 1: Online quiz on Kahoot app

The first round was held at the LRUC at 8 am, on 5th March. This round, constituted of a quiz of 40 different questions based on IOT and Microcontrollers. The eccentricity of round 1 is – it was conducted online through the Kahoot App. Top 30 participants based on their score were selected for the round 2.

Round 2: Simulation of code on Proteus software



Asst. Prof. Nadeem Pathan explain the students about Proteus Software

Round 2 was at Microcontroller Labs F-103 & F-104, at 2 pm on 6th March. In this round, asst. Prof. Nadeem Pathan gave an expert talk on Proteus Software. Thereafter problem statements were given to the participant in a pair. They were supposed to write the code in Arduino IDE and implement that code on Proteus software. It was a time based round; the first 10 students who successfully simulated their circuit on the software were selected for round 3.

Round 3: Circuit Implementation

Round 3 was also held at Microcontroller Lab F-103 & F-104 at 3 pm, on 6th March. In this round participants were supposed to implement the circuit which they have stimulated in round 2 on a breadboard. All the components were provided to the participants by the organizers. It also was a time based round where the first two teams won.



Dr. TD Pawar & Dr. D.M Patel awarding certificates to the winners

Winner's: Poojan Panchal & Darshit Darji

PCB PIQUANCY

Event Managers: Dhvani Agrawal & Akshar Patel

No. Of Participants: 83

Round 1: Workshop

In this round a workshop was conducted by Mr. Vashishth Vaghela, 2019 pass out from BVM Electronics Engineering Department, currently working at Azizta Aerospace. The workshop is targeted for Electronics Engineering students of all level and giving them chance to explore their knowledge in PCB domain with a hands on experience in Eagle Software.

Round 2: Quiz and dumb charades

This round in conducted in 2 parts:

Part 1: Quiz

In this part a quiz was conducted on the Kahoot application. The quiz consisted of 25 questions based on Digital Electronics & VLSI. Out of 50 participants 18 pair was selected for the next round.

Part 2: Dumb Charades

A non-tech hunt race was conducted in this part. A riddle based on planet was given to the participants they were supposed to decode that riddle and go to the respective room. There they had to search for an envelope in which a Boolean equation was written and they needed to solve that equation with the help of Boolean laws only with the diagram. Out of 18 only 9 teams were selected in the last round.

Round 3: Circuit Implementation

This round is the circuit implementation round in which a boolean equation is given and they were supposed to implement boolean equation on a bread board along with the truth table within the time limit of 15 minutes.



Prof. Chintal Patel awarding certificates to the winner

Winners: Shashank Pandya & Rutvi Tanna

1st Runner Up: Harsh Chaudhary & Kamal Kundariya

ARCHITECT THE ANTENNAE

Event Managers: Urvi Barapatre & Krushi Modi

No. Of Participants: 85

Er. Vishal Kharadi from Entuple Pvt. Ltd delivered a talk on Antenna Design and Electromagnetics at BVM Auditorium from 1pm to 2pm. Primary focus of this event was to introduce ELARC and design challenges of several antennas and their possible solutions which should be further investigated for the future generation wireless communication networks. It gave an opportunity for participants to get acquainted with design, simulation, fabrication, and measurement of microwave devices that includes microstrip patch antennas. The individual participants benefitted with hands-on with HFSS software.

The technical event consisted of three round:

Round 1: Visit to ELARC

Dr. Jagdish M. Rathod sir (Proffesor In-charge ELARC) and Prof. Parul H. Panchal had introduced the ELARC to all the participants.

Round 2: Technical Dumb Charades

A technical dumb charades was conducted in which each team had to act/guess the antenna related equipment.

Round 3: Antenna Design on HFSS

Firstly, there was a brief explanation on HFSS software so that participants get familiar with the software. Thereafter they had to design an antenna using HFSS. Top two teams were selected for a rapid fire and the team with most points was declared as the winner.

Following are the outcomes of the courses:

- visit to ELARC
- able to design and simulate microstrip antenna using HFSS software.

Winners: Ashruti Shah & Hinal Rana

1st Runner Up: Stuti P Dave & Riya Vithlani



Dr. J.M Rathod awarding certificates to the winners

CIRCUIT BREAKER

Event Managers: Parth Makwana & Jay Patel

No. Of Participants: 86

The event focused on circuit implementation of basic electronic components. This technical event was divided into two rounds.

Round 1: quiz

This round comprised of quiz based on fundamentals of electronics to apprehend participants' knowledge on electronic components. Evaluation of this round was based on participants' score. All the participants of this round were awarded with participation certificate and top 18 participants were selected for the round 2.

Round 2: Circuit Implementation

In this round, participants were asked to implement circuits such as clippers & clampers, Schmitt Trigger circuits and so on. This was an exhilarating round for circuit aficionado to showcase their skills. Winners of this final round were awarded with a trophy and winners' certificate.

Winners: Sakshee Gaur & Rumit Shah



Asst. Prof. Nadeem Pathan awarding winners' certificate to Sakshee Gaur & Rumit Shah



Asst. Prof. Nadeem Pathan awarding runners' up certificate to Varishth Pandya & Harsh Modi

WORKSHOP ON IMAGE PROCESSING ON PI

Experts: Er. Ronak Shah & Er. Vaibhav Kothari

No. Of Participants: 93

Primary focus of this workshop was to introduce the basics of image processing, OpenCV, hrg and Fast CV. It gave an opportunity for participants to learn how to do image processing on Raspberry Pi with help of open cv and hgr algorithms. The group of participants benefitted with hands-on with Raspberry Pi.

Session 1: Theoretical session on Image Processing and M.L.

Er. Ronak shah (Embedded Software Engineer, Multimedia | Linux | Android) and Er. Vaibhav (AI for Edge | Machine Learning | Principal Engineer at Softnautics) introduced basics of Image Processing, OpenCV introduction, hgr, hgr system diagram, hgr block diagram, hgr algorithms, hexagon – FastCV overview to all the participants.

Session 2: Practical session on Image Processing

Firstly, there was a brief explanation of Raspberry Pi hardware, Raspbian operating system and OpenCV so that participants get familiar with the hardware and software side. Thereafter they had to explain how to process an image for getting some information from the images with the help of OpenCV. All the participant worked on raspberry pi after working so hard they got the resistor number of the car from single car image.

Following are the outcomes of the workshop:

- Familiar with Raspberry Pi hardware
- Familiar with Raspbian OS software
- Able to do image processing on pi with help of OpenCV.



Students during the IMAGE Processing workshop



Dr. J.M. Rathod presenting token of appreciation to the expert Er. Ronak Shah



Prof. Parul Panchal presenting token of appreciation to the expert Er. Vaibhav Kothari



Electrovation Team



Expert talk on “Metallurgy - Strengthening Mechanism (Structure Property Relation)”

About The Event

Production Engineering department of BVM Engineering College had organized Expert talk on **“Metallurgy - Strengthening Mechanism (Structure Property Relation)”** for second year students on **18th November, 2017**. The expense of the expert talk has been sponsored by BVM Alumni Association funding.

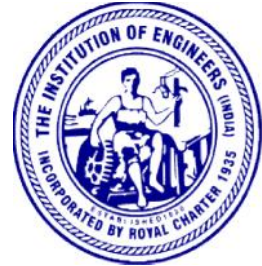
The subject expert was invited from **PDPU, Gandhinagar**. The expert talk was arranged to understand significance of structural property relationship especially in Plain Carbon Steels, it being a part of subject Material Science & Physical Metallurgy (PE205).

Date	:	18 th September, 2017
Venue	:	BVM Engineering College, V. V. Nagar
Expert Name	:	Prof (Dr.) Vishvesh Badheka Professor PDPU, Gandhinagar
Duration	:	1 Day (1 hour)
Total Number of Students	:	28
Expert talk Coordinator	:	Dr. A M Trivedi / Prof. G. V. Patel

Glimpses of Expert Talk:



Fig. Prof (Dr) Vishvesh Badheka explaining various strengthening mechanisms.



BIRLA VISHVAKARMA MAHAVIDYALAYA

(An Autonomous Institution)

IE(I) Students' Chapter – Electrical Department

Report of webinar

“Protection and Maintenance of Electrical Motor”

Details of webinar:

Date: 25th JULY 2020

Time of event: 1:00 P.M.to 2:30 P.M.

Platform: Microsoft Teams

Speaker: Mr. Hiren Gondaliya, B.E. (Electrical Engineering), BVM 2010

10+ years of experience in Maintenance of Plants, Testing and commissioning,
Cost Estimation and Subcontractors Arrangement.

Number of students attended: 24

Organising Team:

Dr. R.P Mehta, HoD,EE Department

Prof. M.N Sinha, Chairman,IE(I) Studnets' Chapter

Prof Y.R Prajapati, Faculty Adviser IE(I) Studnets' Chapter

Prof A.A Pandya, Associate Professor, PG Section

Students Team Members: Anurag Abhyankar, Dhruvanshu Parekh, Jeel Shah, YashGajjar, Dhruv Pokar and Galav Bhatt.

About the webinar:

IEI Electrical Student Chapter had organised an online webinar on “**Protection and Maintenance of Electrical Motor**” on 25th July 2020.

The expert for the session was **Mr. Hiren Gondaliya**, who completed his B.E. (Electrical) from BVM 2010 batch and having 10+ years of experience in Maintenance of Plants, Testing and commissioning, Cost Estimation and Subcontractors Arrangement.

Details of webinar:

The session started sharp at 1:00 PM by Mr. Hiren Gondaliya by Introducing himself and his working strategy in Industry. Mr. Hiren began with topic of discussion by asking very basic questions like-

- What is a Motor?
- Why is protection system required for Motor?

Reasons for Motor failure is discussed like high or low supply voltage, phase unbalance, continuous excessive loading, stall conditions, single phasing, ground/ earth faults, mechanical failures like seized motor bearing and many more. Further points considering Standard Protection Functions and Enhanced Protection Functions by Numerical Motor Relays were discussed. Then about difference between motor current during starting and during stalling and how Numerical Relay detects that the motor has started i.e. by detecting the percentage of motor current with respect to full load current by describing different graphs.

Further Operations of Induction Motor with Unbalanced supply voltage, its causes and effects, along with different protections were clarified by expert like-

1. Locked Rotor protection
2. Thermal Overload protection
3. Short Circuit protection
4. Earth Fault protection with residual and CBCT connections

Different things to consider by seeing name plate of any motor was practically shown by pictures of Motor's Nameplate by our expert.

By starting the Maintenance of Electrical Motor, Mr. Hiren discussed different types of maintenance required in Industry like Preventive maintenance, Condition based maintenance and Corrective maintenance. For overall maintenance following things are to be considered-

1. Equipment Isolation:
2. Motor Terminal Box/ Neutral Terminal Box
3. Push Button Station
4. Star Point Checking
5. Monsoon Protection
6. General includes cleaning the wire mesh of fan cover and body of motor, earthing conductors, main terminals bolts, oil lubrication in coil and many more.

Finally the last topic of discussion was HT/ LT Motor Feeders with different figures and connections. Then the conclusion and Vote of Thanks was given by Prof. M.N. Sinha sir.

Outcome of webinar:

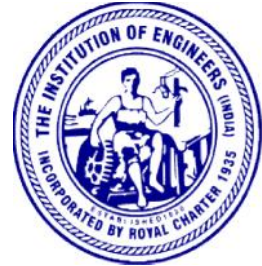
The webinar gave us different ideas and ways Electrical Motors can be Protected in different situation and from things happens in industries and also taught us how can we improve our techniques of Maintenance of Electrical Motor so as to improve life time of Motor.

Glimpse of webinar:



Item	Value	Unit	Remarks
Motor	1500 kg		
1. Winding Protection	PT 100/0.5	4pts	
2. Winding Protection	PT 100/0.5	4pts	
3. Splice Heater	16 ZN/230V		
4. Winding Protection	4. 24V/500		
5. Winding Protection	50 S, 300		
6. Trip Point			
7. Winding Protection	PT 100/0.5	4pts	

Mr. Hiren explaining electrical motor specifications



BIRLA VISHVAKARMA MAHAVIDYALAYA

(An Autonomous Institution)

IE (I) Students' Chapter – Electrical Department

Report of webinar

“Illumination”

Details of webinar:

Date:25 July 2020

Time of event: 11:00 AM to 01:00 PM

Platform:Microsoft Teams

Speaker:Er. Hemant Joshi, Technical consultant, Australia. Master of Technology (Sys & Ctrl), Indian Institute of Technology, Bombay

Number of students participated: 40

Organising Team:

Dr. R.P Mehta, HoD,EE Department

Prof. M.N Sinha, Chairman,IE(I) Studnets' Chapter

Prof Y.R Prajapati, Faculty Adviser IE(I) Studnets' Chapter

Prof A.A Pandya, Associate Professor, PG Section

About the webinar:

IE(I) Electrical Student Chapter had organised an online webinar on “Illumination” on 25 July 2020. The expert for the session was **Er. Hemant Joshi**, Technical consultant, Australia. Master of Technology (Sys & Ctrl), Indian Institute of Technology, Bombay. The speaker has great work experience of over 35 years of consulting in many countries over various projects.

Details of Webinar:

The webinar began with motivation **speech by respected Principal Dr. I.N Patel sir**. In his encouraging speech, he gave importance of utilization of time during Covid-19 pandemic. The webinar began after an introduction of speaker by Anurag Abhyankar, B.Tech fourth year (Electrical).

At first, the speaker began the session with some common terms and its definitions used in lighting. Some of the terms explained by him were **Lux, Lux meter, Room Index, Reflectance** and many more. Then speaker explained some roles of lighting and briefly explained the system of lighting. Later the webinar continued with some application of lighting in different areas, and basic criteria for specific applications.

Some of the **applications** explained were:

- Commercial lighting
- Street lighting
- Task lighting
- Aesthetic decorative lighting
- Emergency lighting
- Security lighting

Later the speaker explained types of lamps used for lighting and their advantages and disadvantages. The **types of lamps** covered were LED, Fluorescent lamp, metal halide and a few others. Along with he also covered topics such as **maintenance of lighting** and **photometric**.

The major topic covered in webinar was ‘**Selection of Luminaire**’. Various factors affect in the selection of luminaire

- **Ingress Protection (IP) rating:** The rating are given by number IPXY. Where X is between 0-6, which indicate protection against object and Y is between 0-8, which indicate protection against water. The IP rating requirement varies as per its location of the lighting.
- **Colour:** Vastly white and warm white are the colour mostly used in lighting. The selection of colour differs as per the application.

- **Location of Luminaire:** The two major location classification is outdoor and indoor. Some other may include wet areas, hazardous areas and heritage building.
 - **Outdoor Lighting:** IP rating, types of fixture, colour are some factor of selecting outdoor lighting.
 - **Indoor Lighting:** Colour, type of mount such as wall mount, surface mount and ceiling, recessed or hanging light etc. decides the selection of light.

Later speaker covered many topics such as:

- Emergency lighting selection criteria
- Lighting controls
- How to order lighting
- Design and documentation of lighting
- Lighting layout drawing
- Typical DB single line diagram

At last, many photos were display of various kinds of lighting. Thereafter session ended with **Q&A** of participants.

The webinar concluded with a **vote of thanks by Prof. A.A Pandya.**

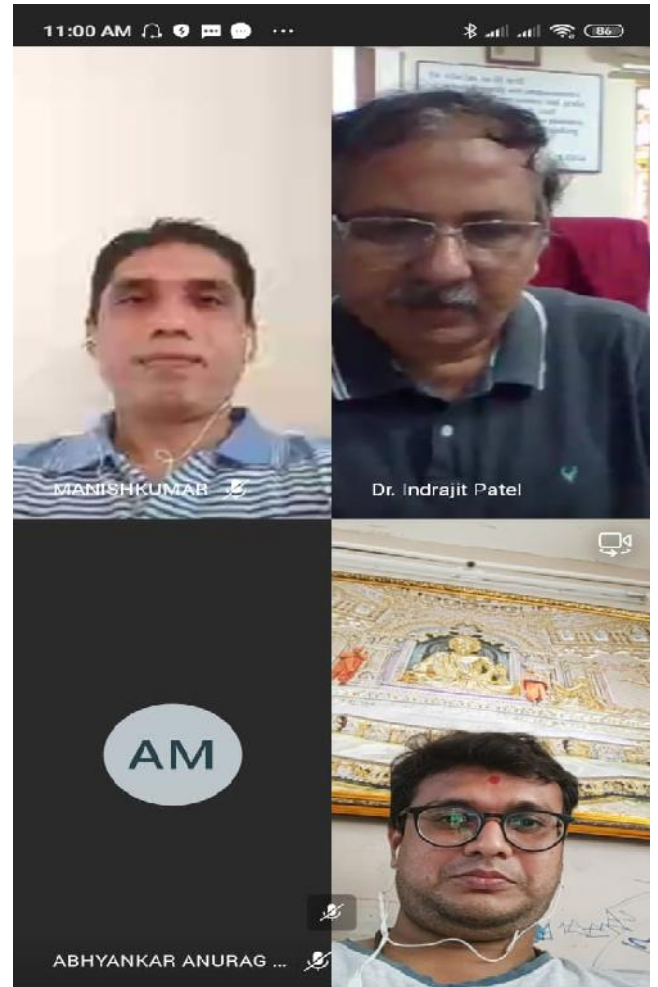
Outcome of webinar:

By this informative webinar, participants came to know about the lighting system, types of lighting and various factor one must know in the field for illumination.

Organising team:

Anurag Abhyankar, Dhruvanshu Parekh, Jeel Shah, Yash Gajjar, Galav Bhatt and Dhruv Poker

Glimpse of webinar:





BIRLA VISHVAKARMA MAHAVIDYALAYA
(An Autonomous Institution)
(Managed by CVM)



REPORT

on

**Webinar Sessions during Lockdown by ABB Expert
for B.Tech Final year and M.Tech students**

Duration of Webinar : 11 April – 19 April 2020

Resource person: Dr Urmil Parikh , Principal Engineer,HV-Technology Centre Global Program Manager Controlled Switching application,ABB India Ltd.

Faculty coordinator: Dr. R.P.Mehta (Electrical Engineering Department)

Total students participated: 32

Day 1 : 11 April 2020

Time :9.30 am

Topic Discussed By Expert :

- Recent trend and futuristic application on wave switching technology
- Controlled switching overview
- Principle
- How it works
- De-Energization of shunt reactor
- Adaptive feature

Session began with a brief introduction of expert Dr Urmil Parikh by our NPTEL co-ordinator Dr. R.P.Mehta. All students were energetic and keen to enhance their knowledge regarding Controlled Switching of Circuit Breaker. Expert Dr Urmil Parikh also preferred to have an interactive session, so that each candidate can get a chance to solve their minor doubts. Here are some screenshots of the webinar.

The screenshot displays a webinar interface. At the top, there are video thumbnails for participants: INURBHA, Deep Dhangar, Rashesh Mehta (Host), and vaibhav. The main content area shows a presentation slide titled "Controlled switching overview" with the subtitle "How It Works". The slide includes a graph labeled "Peak targeting with L1-L3-L2 closing sequence" and a diagram of three circuit breakers (L1, L2, L3) connected to a "Switchsync™ PWC600" and a "Substation control system". A text box at the bottom of the slide states: "CB poles are independently operated at the most favorable time instant for minimizing electrical transients". The footer of the slide shows "©ABB April 11, 2020 | Slide 3" and the ABB logo. On the right side, a "Participants (32)" list is visible, showing names and icons for various attendees, including Deepali Chaudhary, Rashesh Mehta, INURBHA, and others.

Deep Dhangar

R

vaibhav

INURBHA

Rashesh Mehta

Participants (31)

Find a participant

NC Nishant Chauhan

RS Rajat Shah

R= rampam = rpm

ravi ramani

R3 realme 3 Pro

R Redmi

sagar Mangukiya

TM Tanveer Maharaj

V vaibhav

V Vaibhav Yagneshwar

YK You know nothing

HP Harsh Patel

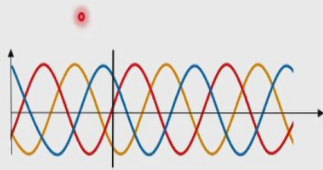
KS Kalu Singal

RA Rajesh Ahir

Controlled switching overview

Principle

All three-phase systems have a difference in timing between the phases.



A standard circuit breaker switches all three phases at the same time.

With controlled switching the phases are independently operated at the most favorable time instant for minimizing electrical transients

©ABB
April 11, 2020 | Slide 2

ABB

Invite Unmute Me Raise Hand

The session started with the overview of the Controlled switching. Sir started with three phase system that have difference in timing between the phases. A standard circuit breaker switches all three phases at the same time. He explained that with controlled switching the phase are independently operated be at the favourable time instant for minimizing electrical transients. He explained how controlled switching happens taking an example of the closing sequence in the circuit breaker he showed with an animation of three pole of circuit breaker. He explained with detail how controlled switching works, how the circuit breaker opening happens with the animated waveforms that help each and every one to understand the fundamental of pole opening, applying the

first pole to clear factor concept. Also a brief importance for the need of controlled switching was provided by the Expert.

Further a detailed explanation about how the De-Energization of shunt reactor. In which students were made to understand the Voltage withstand characteristic of the Circuit Breaker contact gap at opening with the few vedios showing the opening of circuit breaker as well as the instant where the arching begins how long it last, arching time importance ,setting a target and importance of natural zero crossing . Further enlighten the fundamentals of reignition which was very deeply explained so that the De-Energization of shunt reactor could be easily understand by the students. After this session it was concluded that the typical minimum arching time limit which is understood as should be greater then or equal to 4 mili-seconds.

Day 1 : 11 April 2020

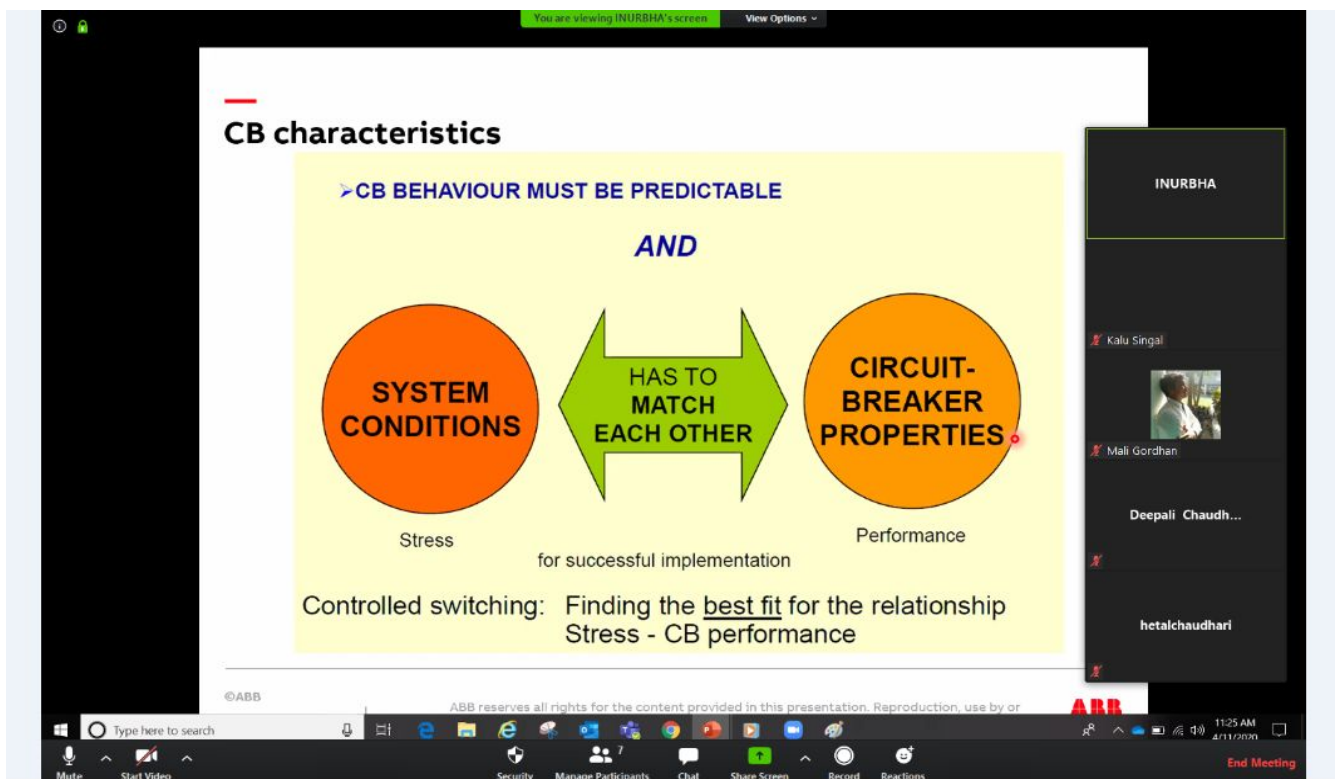
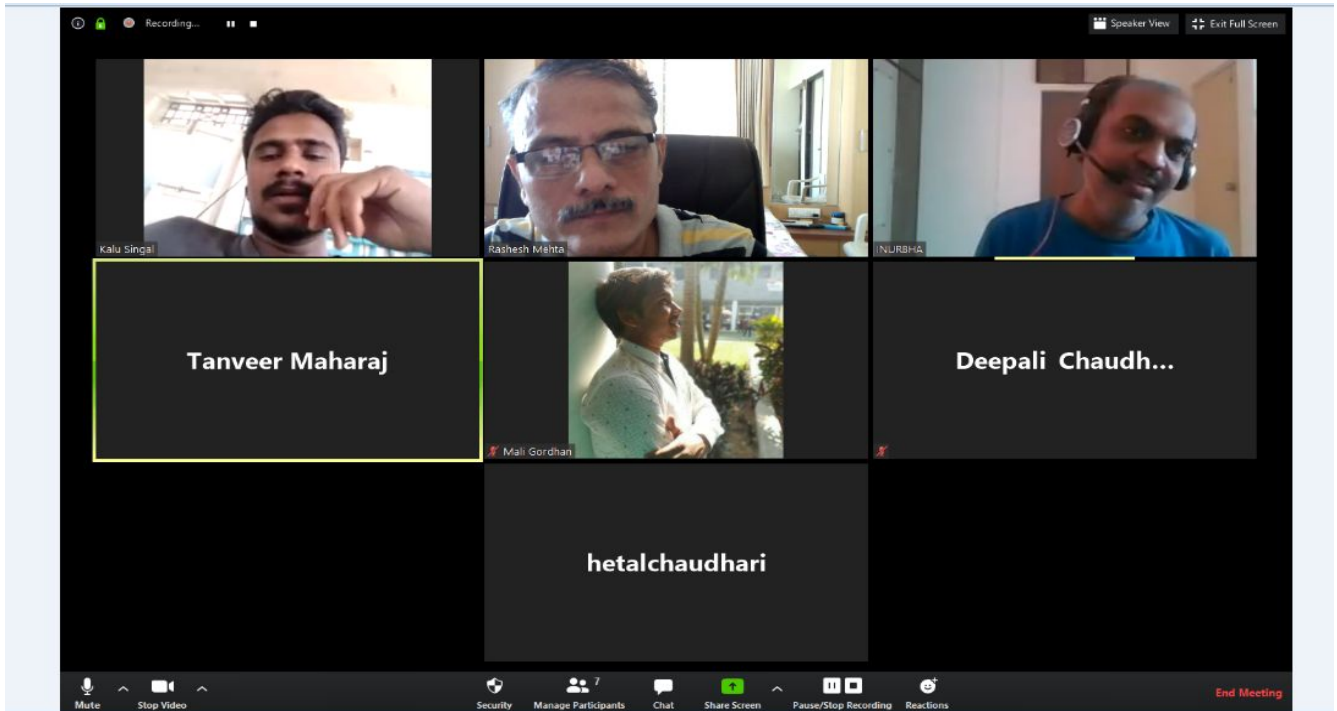
Time : 5.0 PM

Topic Discussed By Expert :

- Control switching relay works
- Circuit-breaker Characteristics
- Controlled energization
- Grounded-Ungrounded Reator

The Session was continue in evening. Where speaker started with how control switching relay works in brief , different characteristics of a circuit breaker, and detailed of controlled energization and how grounded and un-grounded reactor. In further more sir explain Magnetic-inrush-energization of atransformer on no load with a problem and solution. Residual flux

locking methods and detailed of how to take residual flux into account with a waveform.



Day 2 : 12 April 2020

Time : 9.30 AM

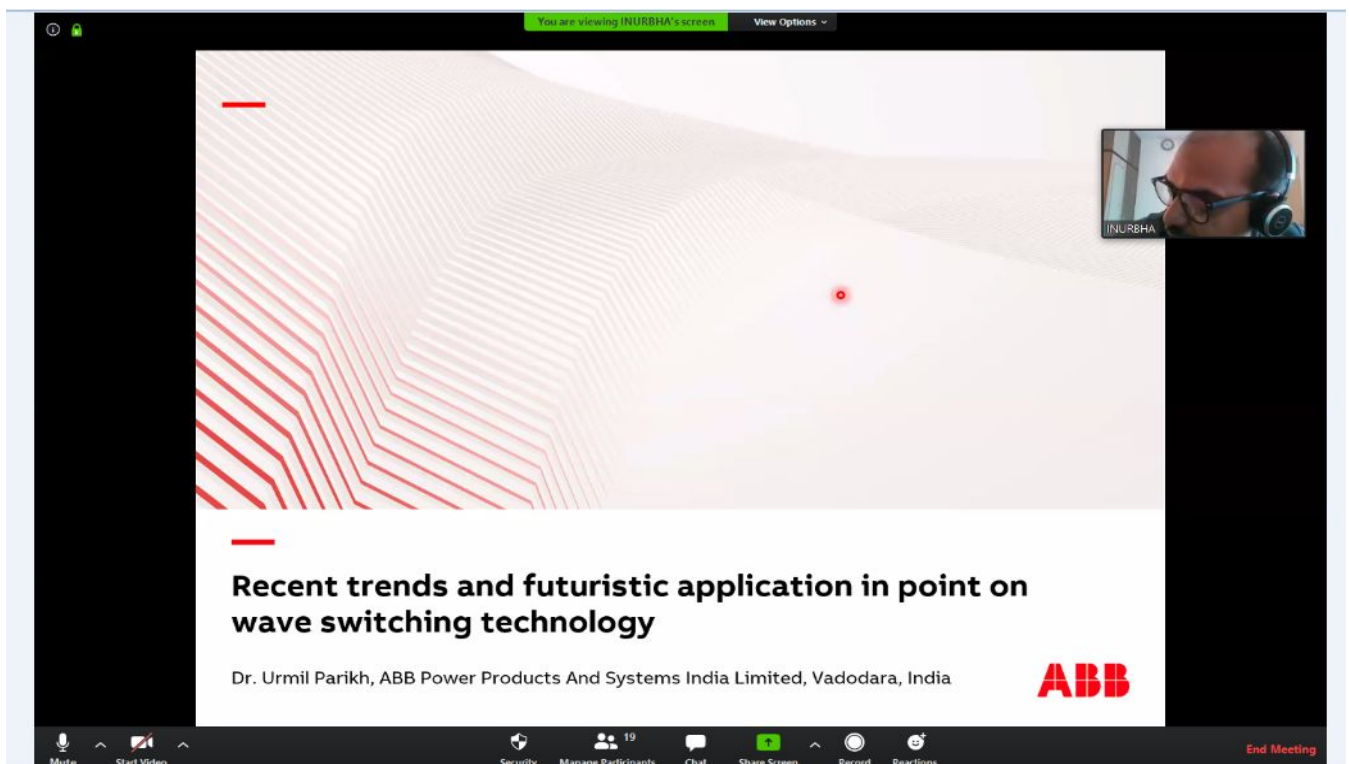
Topic Discussed By Expert :

- Transformer Switching
- Line application

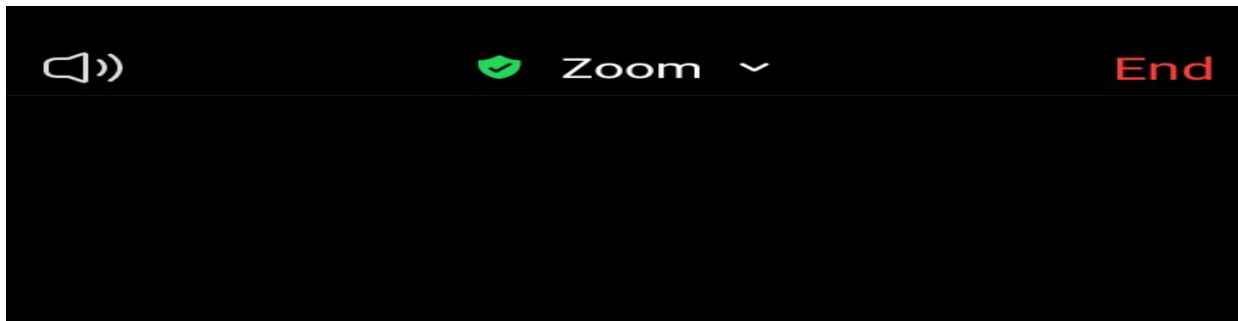
The second day session started with the transformer switching. Sir started with energization of star-delta transformer. How its connection in a real system. Further in a detailed he explained ICT graph waveform of De-energization , energization with non-optimized and with optimized etc.

After that he explain Capacitance switching , how opening and closing of a capacitor banks with the help of circuit and practical wave-forms. And at the last different case studies of a controlled switching.

Here is a screen shot of the session by expert Dr Urmil Parikh regarding Transformer switching.

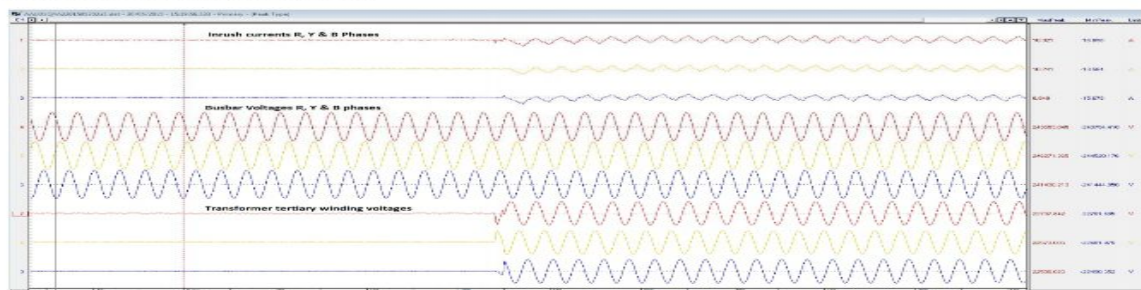


The screenshot shows a Zoom meeting interface. At the top, a green status bar reads "You are viewing INURBHA's screen" and "View Options". The main content is a presentation slide with a white background and red abstract line patterns. The slide title is "Recent trends and futuristic application in point on wave switching technology". Below the title, it says "Dr. Urmil Parikh, ABB Power Products And Systems India Limited, Vadodara, India". The ABB logo is in the bottom right corner of the slide. A small video inset in the top right shows Dr. Urmil Parikh wearing glasses and a headset. The Zoom control bar at the bottom includes icons for Mute, Start Video, Security, Manage Participants (19), Chat, Share Screen, Record, Reactions, and End Meeting.



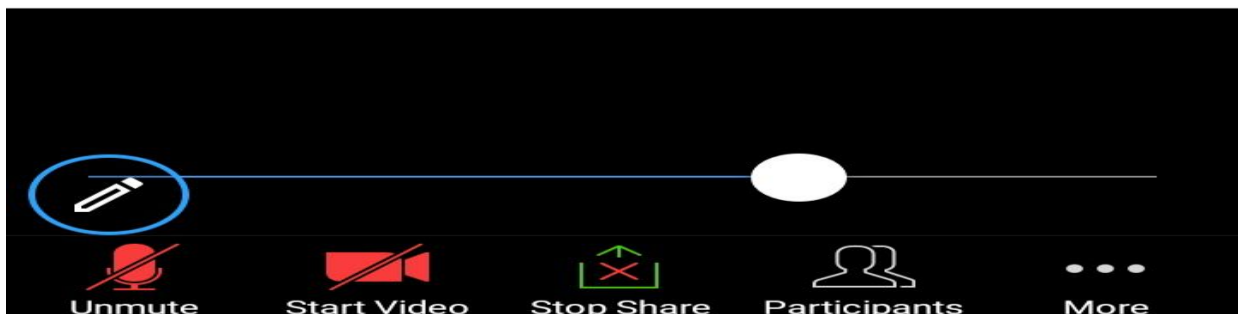
Transformer switching

Reduced inrush and TOV



©ABB
4/11/2020 | Slide 52

ABB reserves all rights for the content provided in this presentation. Reproduction, use by or disclosures to third parties without ABB's written permission is strictly forbidden.



Day 2: 12 April 2020

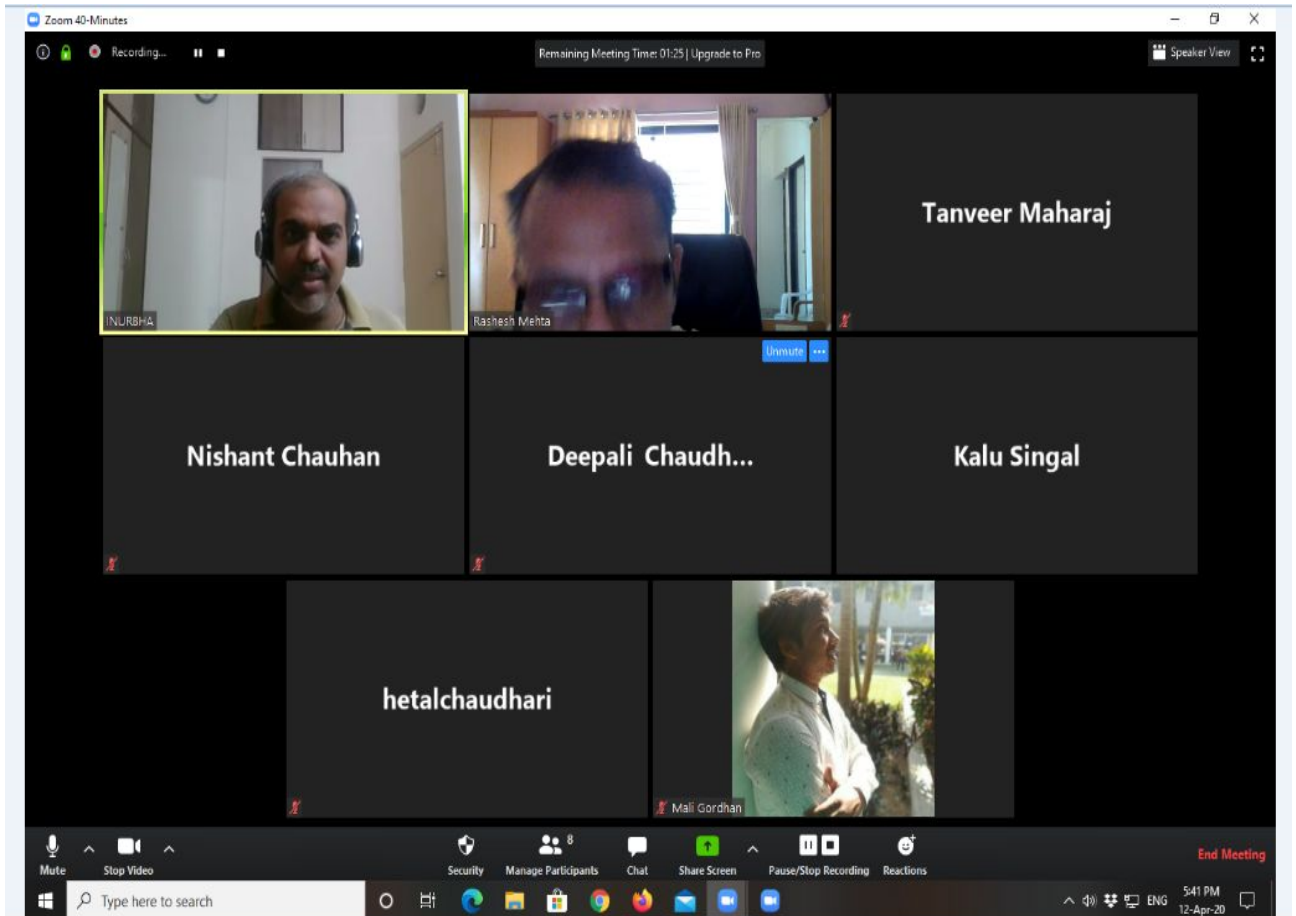
Time : 4:30 pm

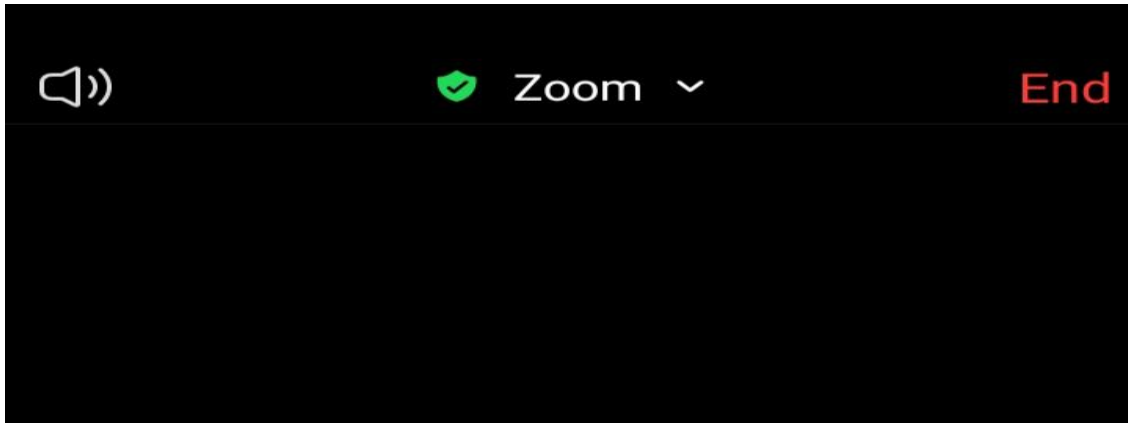
Topic Discussed By Expert : Reactor Switching

The second day session continue in evening. Where expert Dr. Urmil Parikh sir explained about reactor switching. In this session sir explained energization and de-energization of a reactor with a waveform. In further more how 3limb reactor forced re-ignition to avoid CB failure with NGR de-energization and

discussed about controlled energization of Discharged lines, capacitor bank with TPO. After sir explained in brief detailed about ferro-resonance due to a capacitor bank and transformer interaction.

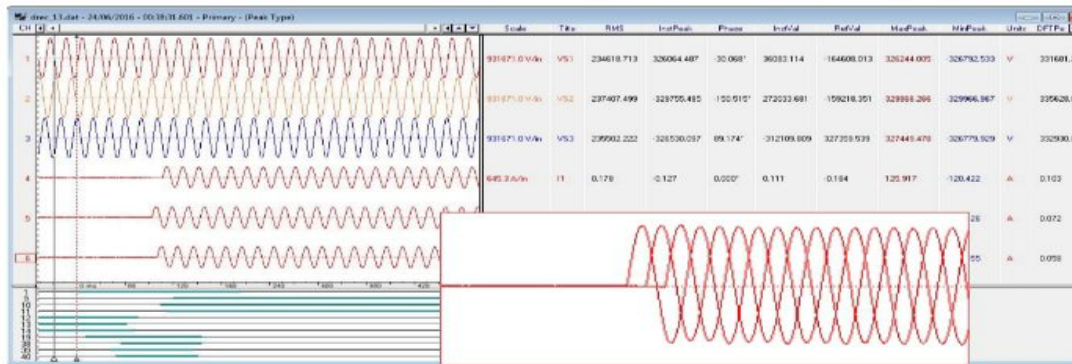
Here is a screen shot of the session by expert Dr Urmil Parikh regarding Reacor energization.





Reactor energization

Minimized asymmetric decaying-No protection mal-operation



Day 3: 19 April 2020

Time : 04:30 pm

Topic Discussed By Expert : Asset Management

This sessions aimed at explaining the term Asset Management. Started with predictive maintenance in the content for Smart Asset Management He started with an example of cricket giving an example of Air condition maintenance at home beginning from a very small level till the substation ,power transformer etc He

covered the session very interactive plus useful way. It was very interesting to know how only by regular checking of the condition of the asset ,its regular testing as well as a proper maintenance of asset can help to cut the cost make profit, avoiding uncertain tripping of breakers and failure of asset, better performance etc .

The following were the contents of the session

- Power Industry Environment & Business needs
- Predictive Analytics
- Smart Asset Management (SAM) Concept
- SAM for HV Switchgear Equipment
 1. Gas Insulated Substations
 2. Generator Circuit Breakers
 3. Live Tank and Dead Tank Circuit Breakers
 4. Transformers
- Overall SAM solutions

Here is a screen shot of the session by expert Dr Urmil Parikh regarding Asset Management.

The screenshot shows a video conference interface. At the top, there is a recording indicator and a status bar indicating 'You are viewing INURBHA's screen'. The main content is a presentation slide titled 'Case for predictive analytics' with the subtitle 'Improving operations by ...'. The slide features a box titled 'Main goals' containing a list of five items: 1. Reducing catastrophic failures, 2. Reducing unplanned outages, 3. Optimizing maintenance, 4. Increasing productivity, and 5. Managing asset lifecycle. To the right of the text are two images: the top one shows two workers in safety gear inspecting large industrial machinery, and the bottom one shows a worker on a ladder performing maintenance on a large cylindrical tank. A small video window in the top right corner shows the speaker, Dr. Urmil Parikh, wearing a headset. The name 'INURBHA' is visible below the video window.

Recording

You are viewing INURBHA's screen

View Options

Asset Management Solutions for HV equipment EHV CBs & Transformers

Expert Services

Asset Management Solutions

Monitoring and diagnostics

Sensor Technologies

Alarms & Events

Trend

Graphics

Video

Weather

Reports

Documentation

ERP/CMMS

Software

Asset Health

ERP: Enterprise resource planning
CMMS: Computerized maintenance management system

INURBHA

Conclusion

Session was really fruitful for all the participants, flow of the session was nicely planned and executed by the expert. Participants also participated actively by asking their queries and giving solution for a problem. At the end everyone gained quite a significant knowledge regarding about controlled switching of Circuit breaker , Energisation of shunt and capacitor banks, De-energisation of shunt reactor ,transformers.



The Institution of Engineers (India)



IE(I) ELECTRICAL STUDENTS' CHAPTER

**B.V.M. Engineering College (An Autonomous Institution)
Vallabh Vidyanagar, Gujarat**

Students' Advisor: Prof. Manish N. Sinha

Students' Chapter: Electrical Engineering

**REPORT
of
Expert lecture on “Machine Learning For Multidisciplinary Approach”**

Date: 9 February, 2019

Time: 11:30 am to 1:00pm

Venue: LRUC Hall

Coordinators: Prof. Manish N. Sinha

Total Participants: 20 (1st, 2nd, 3rd Year students, Electrical)

Introduction

In the field of computer science, Artificial Intelligence sometimes called machine intelligence which is demonstrated by machine, in contrast to the natural intelligence displayed by humans and other animals. In other words an Artificial Intelligence refers to intelligence displayed by machines that simulate human and animal intelligence.

Objective

1. To have a basic understanding of the some of the more advanced topic of AI such as learning, natural language processing, robotics, expert systems, and planning.
2. To have an understanding of the issues of knowledge representation and blind and heuristic search, as well as an understanding of other topics such as mini-max, resolution, etc. that plays an important role in AI programs.
3. To have a basic proficiency in a traditional AI language including an ability to write simple to intermediate programs and an ability to understand code written in that language.

Expert Talk

An expert lecture on “Machine Learning for Multidisciplinary Approach” was organized in LRUC Hall, B.V.M Engineering College, and V.V.Nagar under the IE (I) Students’ Chapter Electrical. Expert from IT Department BVM, Prof. Krupali Shah delivered expert lecture.

Prof. Krupali Shah shared her knowledge about an Artificial Intelligence. She talked about the history of AI. She also talked about Robotics and Products of Machine learning, and show some videos related to AI and ML.

She had also talk about the application of an Machine Learning in different engineering fields and Importance and scope of machine learning and AI in upcoming future.

Students participated in the session with full enthusiasm and took a lot of interest.

Following topics were discussed:

- Deep learning.
- Robotics.
- Natural Language Processing.
- Reinforcement Learning.
- Artificial Neural Network.
- Expert System.
- Fuzzy System.

Some glimpses of the Expert Talk







Conclusion

Overall, it was an informative lecture which will enhance the knowledge of students about the importance of an Artificial intelligence and the machine learning. They will also come to know how AI works in related to their respective engineering field.

Manish N. Sinha
(Students' Advisor of IE(I), EE Chapter)
Assistant Professor,
EE Department,
B.V.M. Engineering College,
Vallabh Vidyanagar.



Birla Vishvakarma Mahavidyalaya (BVM)

Engineering College

(An Autonomous Institution)

Information Technology Department

Student Activities Report

Academic Year 2016-17



Birla Vishvakarma Mahavidyalaya (BVM)

Engineering College

(An Autonomous Institution)

Information Technology Department

Student Activities Report

Academic Year 2016-17

(Semester-I)

Report of Student Activities for the academic year 2016-17

(Semester-I)

Title of the Activity (Expert talk / Workshop / Industry Visit)	Coordinators	Date/Duration	Resource Person	Targeted Audience	No. of Students
Big-Data Analytics	Prof. V. M. Agrawal Prof. B. A. Tanawala	17/09/2016	Mr. Raj Patel	4 th year IT & CE	64
BSNL Ahmadabad Industrial Visit	Prof. Zankhana Shah Prof. Keyur Brahmbhatt Prof. Samip Patel Prof. Nikita Patel	27/09/2016	-----	3 rd Year IT	54
Project Poster Presentation	Prof. Keyur Brahmbhatt Prof. Bijal Dalwadi	20/10/2016	Mr. Hardik Patel (Jury) Mr. Tejas Patel (Jury)	4 th year IT	81

1) One Day Workshop on Big-Data Analytics

About Workshop

Computer Engineering and Information Technology department of BVM Engineering College had organized One day Workshop on “**Big-Data Analytics**” for final year students on **17th September, 2016** for three hours. There were total **64 participants**, who attended the workshop, among them **52 from Computer engineering department** and **12 from IT department**. The expense of the workshop has been approved under Alumni fund.

The expert was invited from **Collabera Technologies PVT. Ltd., Vadodara**. The topics were covered in the workshop as below:

- Introduction to Big Data
- Introduction to Hadoop
- Introduction to NoSQL Databases
- Basic introduction to Map Reduce
- Basic Introduction to Hive
- Basic Introduction to SQOOP

The motive of this workshop was students can learn the grooming technologies in the area of Big Data and Hadoop. Also, it can helpful to the students for their project work in final year.

Date: 17th September, 2016

Venue: BVM Engineering College, V.V.Nagar

Expert Name: Mr. Raj Patel
Senior Technical Assistant
Collabera Technologies PVT. Ltd

Duration: 1 Day (3 hours)

Total Number of Students: 64 (52 CP , 12 IT)

Workshop Coordinators: Prof. B A Tanawala , Prof. V M Agrawal

Glimpse of the workshop:



2) Industrial Visit BSNL Ahmadabad

About Visit

The technical visit to RTTC, Ahmedabad had started on 27th September at 08:30 am from BVM Engineering College. There was one bus containing 54 students (Third year IT) and 4 faculties (Prof. Zankhana Shah, Prof. Keyur Brahmhatt, Prof. Samip Patel, Prof. Nikita Patel). The bus has been provided by CVM boarded up to Ahmedabad. The bus reached RTTC, Ahmedabad around 10:30 am. The tour started at 11:00 am where all the students were divided into 2 groups and escorted to the respective labs by the student monitors. Students visited 7 labs which were based on networking.

Students visited the following labs at RTTC, BSNL Ahmedabad:

- Telecom Museum
- Network Lab
- Broadband Lab
- OFC Lab (Optical Fiber Communication Lab)
- FTTH(Fiber to the Home)
- GSM Lab
- C-DOT Lab

Telecom Museum:

The first lab students visited was the Museum, where all the innovation before the time of Independence till today was shown to embark the

development in the Telecom Industry. Starting from the telephones with the circular dials students reached the end of the museum with the development and the usage of OFC (Optical Fiber Cables).students saw the pictures and some models of old telephone exchange offices.

Network Lab:

The second lab was the Network Lab where students learned about the different type of ports required establishing a connection between devices, and also learned about the advancing growth of the IT Department in the Telecommunications field.

Broadband Lab:

In the Broadband Lab students learned about the working of a broadband connection in detail. How customers get Internet at their home from Tier-1 and Tier-2 Communications Lab of Service Provider. Students saw a working Siemens DSLAM with optical fiber which was sorted data and voice signals.

Broadband Lab:

In the Broadband Lab students learned about the working of a broadband connection in detail. How people get Internet at their home from Tier-1 and Tier-2 Communications Lab of Service Provide.

Students saw a working Siemens DSLAM with optical fiber which was sorted data and voice signals.

FTTH Lab:

FTTH lab was the product lab and service lab where they explained the FTTH lab. They explained first with landline then after broadband connection. Students came to know about the information like splitters 2x32, 1x16, 1x8 are used to connect more than 1 or 2 people's phone line connection in one box and inside this Coupler and DCoupler technique is used using time division.

OFC Lab:

Then after Students visited OFC (Optical Fiber Connection) lab where students came to know about the working of OFC system. Also they learned about the conversion of electrical signal into optical signal, and due to this, students got to know about the use of unlimited bandwidth for their system.

GSM Lab:

In this lab, students learned about how a voice call is made between two devices and how many procedures were followed. Students also learned how a call maybe intercepted by the government. Why 4G is

cheaper than 2G and 3G, it was the critical discussion among the students and the experts.

C-DOT Lab:

How connection is established in the rural areas of India with the hardware provided by C-DOT was the key topic in this Lab. The space required by data centers and how the call logs are being recorded were also discussed. Students also learned how the PCBs are capable of storing the massive amount of data.

Students and faculties had taken lunch at around 02:30 pm and return to BVM after lunch. Thus the beautiful journey of industrial tour reached to a happy and beautiful conclusion where each and every student gain lots of knowledge based on networking & mobile communication on making this event a memorable event in their entire college life.

Date: 27th September, 2016

Pick up point: BVM Engineering College, V.V.Nagar

Place of Company: Regional Training and Telecom Centre -BSNL,Ahmedabad

Duration: 1 Day

Total Students: 54

Faculty Members: Prof. Zankhana Shah , Prof. Keyur Brahmbhatt,
Prof. Samip Patel , Prof. Nikita Patel

Glimpse of the visit :







PCO Card Type Telephone



1986 Macintosh SE by Apple.



Various equipments in the FTTH Lab.



64 - port DSLAM

3)PROJECT POSTER PRESENTATION

About Event

The project poster presentation event had organized by the department of Information Technology of BVM engineering college on 20th October 2016 at BVM Engineering College. Prof Zankhna. H. Shah was the convener of the event and Prof Keyur N Brahmbhatt, Prof. Bijal N Dalwadi were the coordinator of the event. The expert from the various industries judge the poster event and based on that best 3 projects were selected out of total 23 projects (06 IDP +17 UDP = 23 Groups, Total 81 Students).

Following students were awarded for prizes and certificates in the project poster presentation event.

RANK	NAME OF THE STUDENTS	TITLE OF THE POSTER	Amount (Rs.)
First	Rabbani Mohammad	VRSkaters	2000
	Maunil Swadas		
	Parth Updhayay		
	Urja Solanki		
Second	Ankita Vaghela	Mood Player	1500
	Disha Panchal		
	Saurabh Rathod		
	Arzoo Lakhwani		
Third	Rushikesh Bosamia	Robopet	500
	Maulik Desai		
	Kunal Thanki		
	Rahul Vazar		

Date: 20th October 2016

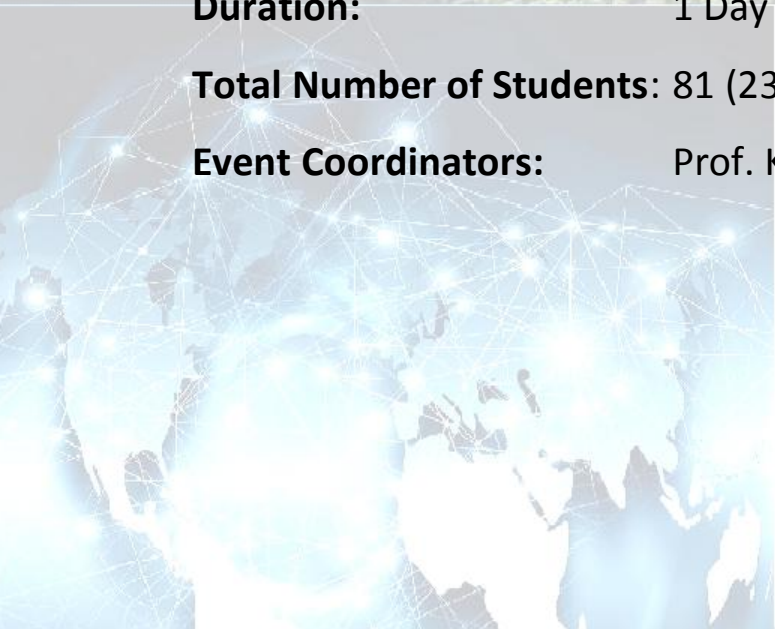
Venue: BVM Engineering College, V.V.Nagar

Jury Name: 1) Mr. Hardik Patel
Senior Project Manager, Massive Softech
2) Mr. Tejas Patel
CEO , Intellet Peritous

Duration: 1 Day

Total Number of Students: 81 (23 Projects)

Event Coordinators: Prof. Keyur Brahmhatt , Prof. Bijal Dalwadi



Glimpse of the Event









Birla Vishvakarma Mahavidyalaya (BVM)

Engineering College

(An Autonomous Institution)

Information Technology Department

Student Activities Report

Academic Year 2016-17

(Semester-II)

Report of Student Activities for the academic year 2016-17

(Semester-II)

Title of the Activity (Expert talk / Workshop / Industry Visit)	Coordinators	Date/Duratio n	Resource Person	Targeted Audience	No. of Students
Seminar on Digital India	Prof. Priyank Bhojak Prof. Prachi Shah	06/01/2017	-----	Ghana Village, Anand	----
Visit to 8th Vibrant Gujarat Global Summit	Prof. Keyur Brahmbhatt Prof. Nikita Patel	12/01/2017	-----	3rd & 4th year IT	35
Expert talk on Virtual Reality	Prof. Zankhana Shah Prof. Vishal Polara	04/02/2017	Mr. Harshit Lalpura	3rd year IT, CP, EL, ET.	127
Hands on Practice in “Arduino Board “	Prof. Kanu Patel Prof. Vatsal Shah	18/03/2017	Mr. Rahul Goradia	2nd & 3rd Year	16
Project Expo Event	Prof. Keyur Brahmbhatt Prof. Bijal Dalwadi	30/03/2017	Mr. Amar Dave Mr. Fenil Parikh	4th Year	----
PHP for Beginners	Prof. Keyur Brahmbhatt Prof. Chintan Mahant	31/03/2017	Mr. Bhvin Rana	3rd Year	36
Smart India Hackathone 2017	Prof. Priyank Bhojak	01/04/2017 to 02/04/2017	-----	3rd Year	06
ISRO Ahmadabad Visit	Prof. Vishal Polara Prof. Chintan Mahant Prof. Nikita Patel	04/04/2017	-----	2nd Year	48

1) Seminar on Digital India

(To Aware digital economy and cashless modes in rural area)

About Seminar:

Information Technology department of BVM Engineering College had organized Seminar on “Digital India” for creating awareness among village people about digital economy and cashless modes of transactions on 6th January 2017 at Ghana Village. There were total 10 students from 3rd year IT and 2 faculty members, who visited the village (Ghana) for Seminar under guidance of Prof. Zankhana Shah, Head, I.T Department and Dr. I.N.Patel, Principal, Birla Vishvakarma Mahavidyalaya.

Students gave information about online payment and aware people about digital economy, cashless modes as well as BHIM application. Faculties and students encouraged and motivated the people to use a digitally enabled cashless economic system for transfer of fund and also aware their family members and friends about it.

Overview of Digital India

Digital India is an initiative by the Government of India to ensure that Government services are made available to citizens electronically by improving online infrastructure and by increasing Internet connectivity. It was launched on 1 July 2015 by Prime Minister Narendra Modi. The initiative includes plans to connect rural areas with high-speed internet networks. Digital India Programme Includes various schemes like Digital Locker, e-education, e-health, e-sign and

national scholarship portal. The Ministry of Communications and IT is the nodal agency to implement the programme.

Date: 6th January 2017

Place of visit: Ghana Village, Anand

Duration: 1 Day

Total Students: 10

Faculty Members: Prof. Prachi Shah, Prof. Priyank Bhojak

Glimpse of the visit:





1) Visit to 8th Vibrant Gujarat Global Summit

About Visit:

The technical visit to 8th Vibrant Gujarat Global Summit, Gandhinagar had been organized on 12th January 2017. 8th Vibrant Gujarat Global Summit was an example of the visionary approach of the Government of Gujarat towards inclusive and sustainable development by ensuring policy coherence and effective investment promotion. 8th Vibrant summit advertised as a platform to understand and explore business opportunities in the State of Gujarat. Students visited different sections which were based on IT-ITES, Pharmaceuticals, Environments, Innovation and R&D etc. At the end of visit each and every student gain lots of knowledge based on different technical areas and making this event a memorable event in their entire college life.

Overview of Vibrant Gujarat

The Vibrant Gujarat Global Summit, which started in 2003 to rekindle the pace of investments in the state, has since established itself as one of the most important international business events in the country. Vibrant summit advertised as a platform to understand and explore business opportunities in the State of Gujarat. Having successfully organized seven constructive summits, Government of Gujarat had organized the 8th edition of the Vibrant Gujarat Global Summit from the 10th to 13th of January 2017 at Mahatma Mandir, Gandhinagar. The central focus of the Summit was “Sustainable Economic and Social Development”.

Date: 12 January 2017
Pick up point: BVM Engineering College, V.V.Nagar
Place of visit: Vibrant Summit 2017, Gandhinagar
Duration: 1 Day
Total Students: 35
Faculty Members: Prof. Keyur Brahmhatt, Prof. Nikita Patel

Glimpse of the visit:







3) Expert talk on Virtual Reality

About Expert Talk:

Information Technology department of BVM Engineering College had organized an expert talk on “Virtual Reality” for 3rd year students on 4th February, 2017. There were total 127 Participants, who attended the workshop.

A brief speech motivating students to pursue careers in innovative tech industry was given by Principal Dr. Indrajit Patel Sir. He also advised to make a 360 virtual tour of BVM which helps Alumni to look and relive their past. After that Head of the IT Department felicitated Mr.Harshit and made few comments on the academic performance of Mr.Harshit during his bachelor’s degree education.

The motive of this workshop was students can learn the principles of Virtual Reality including optics, displays, stereopsis, tracking, and major hardware platforms. Also, it can helpful to the students for their project work in final year.

Date: 4th February, 2017

Venue: BVM Engineering College, V.V.Nagar

Expert Name: Mr. Harshit Lalpura
Entrepreneur, Hashmedia , Ahmedabad

Duration: 1 Day (10:00 AM to 12:30 PM)

Faculty Coordinator: Prof. Zankhana Shah
Prof. Vishal Polara

Student Coordinator: Mr. Vatsal Patel, Ms. Nikita Sure.

Glimpse of the Expert Talk:





4)Hands on Practice in “Arduino Board”

About Workshop:

Information Technology department of BVM Engineering College had organized an one day workshop on “Basics of Arduino” for 3rd year and 2nd Year students on 18th March 2017. There were total 16 Participants, who attended the workshop.

In the first session students got familiar with various development boards of Arduino and learnt the development environment for Arduino. Working with Arduino I/O pin was taught initially and students run small practical like blinking LED, interfacing Pushbutton switch. In the second session after lunch Infrared LED based human entry door counter was implemented. Students learnt to interface 16x2 lcd with Arduino and displayed various data on display. Working with Analog pins was also covered in second session in which students perform analog to digital conversion and accordingly set the brightness of LED. Relay concept was demonstrated by experts and students learnt to control home appliances via Arduino. Students also learnt to work with infrared remote and emulated working of Projector IR remote. Using Ethernet Shield of Arduino web server was created and through local network demo of controlling home appliances was shown. So students learnt to implement simple practical of implementing IoT. Also, it can helpful to the students for their project work in final year.

Date: 18th March 2017

Venue: B401, B-Block, BVM Engineering College

Expert Name: Mr. Rahul Goradia ,Sagar Infotech.
Prof. Dhaval Tailor, ADIT, New V V Nagar

Duration: 1 Day (09:00 AM to 02:30 PM)

Faculty Coordinator: Prof. Vatsal Shah
Prof. Kanu G Patel

Student Coordinator: Mr. Vandan Dhuliya

Glimpse of the Workshop:





5) Project Expo Event

About Event:

The Project Expo event had been organized by the department of Information Technology on 30th March 2017 at BVM Engineering College. Prof. Zankhana Shah was the convener of the event and Prof. Keyur Brahmbhatt and Prof. Bijal Dalwadi were coordinators of the event. The expert from the various industries judge the event and based on that best 3 posters were selected out of total 23 posters (06 IDP +17 UDP = Total 81 Students).

Date:

30th March 2017

Venue:

BVM Engineering College, V.V.Nagar

Expert Name:

1) Mr. Amar Dave

CEO , Innoventix Solution, Ahmedabad

2) Mr. Fenil Parikh,

Tech director ,Stimulus Consultancy, Surat

Duration:

1 Day

Convener

Prof. Zankhana Shah

Faculty Coordinator:

Prof. Keyur Brahmbhatt

Prof. Bijal Dalwadi

Following students were awarded for prizes and certificates in the Project Expo event.

Dept	Total No. of IDP/UDP groups		No.of Project	Experts from Industry	Winner Details		
IT	UDP: 17	IDP: 06	23	Mr. Amar Dave (Innoventix Solution)	1 st	“VRSkaters”	Rabbani Mohammad (130080116030) Maunil Swadas (130080116052) Parth Updhayay (130080116053) Urja Solanki (130080116054) Project Guide : Prof. Vatsal Shah
				Mr. Fenil Parikh (Tech director, Stimulus)	2 nd	“Robopet”	Rushikesh Bosamia(130080116003) Maulik Desai (130080116009) Kunal Thanki (130080116022) Rahul Vazar (130080116058) Project Guide : Prof. Vishal Polara
				Mr. Fenil Parikh (Tech director, Stimulus)	3 rd	“Mobot”	Eva Khakhkhar (130080116012) Jaydeep Gabani (130080116013) Heet Kalariya (130080116016) Manan Trivedi (130080116027) Project Guide : Prof. Chintan Mahant

Glimpse of the Expert Talk:





6) PHP for Beginners

About Workshop:

Information Technology department of BVM Engineering College had organized an one day workshop on “PHP for Beginners” for 3rd year students on 31th March 2017. There were total 36 Participants, who attended the workshop. The motive of this workshop was students can design and implement a client-server internet application that accommodates specific requirements and constraints, based on analysis, modeling or requirements specification.

Date:	31th March 2017
Venue:	BVM Engineering College, V.V.Nagar
Expert Name:	Mr. Bhavin Rana, .Netxpert web Solution, Vadodara
Duration:	1 Day (09:00 AM to 3:00 PM)
Faculty Coordinator:	Prof. Keyur Brahmbhatt Prof. Chintan Mahant

Glimpse of the Workshop:





7) Smart India Hackathone 2017

About Event

Event Name: The Grand Finale of “Smart India Hackathon-2017”

Date: 1st - 2nd April-2017

Venue: Bhubaneswar, Orissa

Duration: 2 Days

Number of Students: 6 (Aseem Thakkar, Abhishek Shah, Brijesh Patel, Jay Patel, Ghanshyam Savaliya, Vruti Tankaria)

Team Leader: Aseem Thakkar (3rd Year IT Student)

Mentor: Prof. Priyank Bhojak

Team Name: Cye-Coders

Problem Statement: Android based app for sanctioned positions, filled positions, vacancies, due to retire for efficient manpower management.

Challenge Tag: #DBT8 (Department of Biotechnology)

Overview of Smart India Hackathon-2017

Our Hon’ble Prime Minister, Shri Narendra Modi, envisages a Digital India to bridge the digital divide in our country and further promote digital literacy in

order to make development a comprehensive mass movement and put governance within everyone's reach in India.

Smart India Hackathon 2017 was a computer programming competition which involved all Engineering colleges with a reach to approximately 30 Lakh students from across India. It was a plan to challenge the students to think out-of-the-box and offer innovative ideas to built smart applications which will help address major real time problems in our country.

Twenty-nine Departments of Government of India participated in this event. Each Department had identified few problem statements to which students were expected to provide innovative, sustainable digital solutions. This was the first effort by Government of India to involve young students in proposing solutions for problems faced by Departments in day-to-day functioning. This led the students to think out of box and provide innovative, disruptive and sustainable solutions, which could be pursued after the Hackathon for further refining of solutions.

The Students of 3rd year Information Technology had participated in this event under the guidance of Prof. Priyank Bhojak, Information Technology Department, and represented BVM Engineering College. The team (Cye-coders) got selected for the Grand Finale of "Smart India Hackathon-2017", which was scheduled on 1st - 2nd April, 2017 at Bhubaneswar, Orissa.

The Team Cye-Coders is really very thankful to Charutar Vidya Mandal , Dr. I. N. Patel, Principal , BVM Engineering Collage , Prof. Zankhana Shah, Head , Information Technology Department for giving Such a nice opportunity and guidance to take participation in this mega event.

They secured 7th rank in the Grand Finale of “Smart India Hackathon-2017” and they got prize amount of rupees 12500. Following students were awarded for prize and certificates.

	Enrollment No.	Name	Team
Team Leader	140080116006	Aseem Thakkar	Cye-Coders
Team Member 1	140080116001	Abhishek Shah	
Team Member 2	140080116028	Brijesh Patel	
Team Member 3	140080116031	Jay Patel	
Team Member 4	140080116052	Ghanshyam Savaliya	
Team Member 5	140080116057	Vruti Tankaria	
Mentor		Prof. Priyank Bhojak	

Glimpses of the Event:







Information Technology Department

8) Industrial Visit ISRO Ahmadabad

About Visit

The technical visit to ISRO, Ahmadabad had started on 04th April 2017 at 08:30 am from BVM Engineering College. There were 48 students (Second year IT) and 3 faculties (Prof. Vishal Polara, Prof. Nikita Patel, Prof. Chintan Mahant). Students visited Exhibition of various Satellite and Space-shuttle. The beautiful journey of industrial tour reached to a happy and beautiful conclusion where each and every student gain lots of knowledge based on Satellite communication and Space-shuttle.

About ISRO

India decided to go to space when Indian National Committee for Space Research (INCOSPAR) was set up by the Government of India in 1962. With the visionary Dr Vikram Sarabhai at its helm, INCOSPAR set up the Thumba Equatorial Rocket Launching Station (TERLS) in Thiruvananthapuram for upper atmospheric research.

Indian Space Research Organisation, formed in 1969, superseded the erstwhile INCOSPAR. Vikram Sarabhai, having identified the role and importance of space technology in a Nation's development, provided ISRO the necessary direction to function as an agent of development. ISRO then embarked on its mission to provide the Nation space based services and to develop the technologies to achieve the same independently.

Apart from technological capability, ISRO has also contributed to science and science education in the country. Various dedicated research centres and

autonomous institutions for remote sensing, astronomy and astrophysics, atmospheric sciences and space sciences in general function under the aegis of Department of Space. ISRO's own Lunar and interplanetary missions along with other scientific projects encourage and promote science education, apart from providing valuable data to the scientific community which in turn enriches science.

Date: 4th April 2017

Pick up point: BVM Engineering College, V.V.Nagar

Place of Company: ISRO, Ahmedabad

Duration: 1 Day

Total Students: 48

Faculty Members: Prof. Vishal Polara
Prof. Nikita Patel
Prof. Chintan Mahant



Glimpse of the visit







Report Created By

**Prof. Priyank Bhojak
Assistant Professor**

Information Technology Department

Birla Vishvakarma Mahavidyalaya (BVM)

Engineering College

(An Autonomous Institution)

*****_***_*****



Birla Vishvakarma Mahavidyalaya (BVM)

Engineering College

(An Autonomous Institution)

Information Technology Department

Student Activities Report

Academic Year 2017-18

(Semester-I)

Information Technology Department

Report of Student Activities for the academic year 2017-18

(June- Dec 2017)

Sr.	Title of the Activity (Expert talk / Workshop / Industry Visit)	Convener	Coordinators	Date/Duration	Resource Person/Industry
1	CodeVita	-----	Prof. Vatsal Shah	13/07/2017, 14/07/2017	TCS
2	Expert talk on “Cost Analysis of Algorithms ”	Dr.Keyur Brahmbhatt	Prof. Kanu Patel Prof. Vatsal Shah	15/07/2017	Mr. Jay Vala
3	How to crack GATE and How to crack PSU	Dr.Keyur Brahmbhatt	Prof. Krupali H. Shah	15/07/2017	Ms. NagisVahora
4	Expert talk on “Career Opportunities” By Endeavor	Dr.Keyur Brahmbhatt	Prof.Prachi Shah Prof.Priyank Bhojak	18/07/2017	Endeavor
5	Event on “Jumping into Computers”	Dr.Keyur Brahmbhatt	Prof. Vishal Polara Prof. Hiren Patel	22/07/2017	ISTE Students Chapter
6	Startup India Yatra	-----	Prof. Chintan Mahant	23/07/2017	Mr. Mohan Iyer , Nijanshi Thakkar
7	Workshop on "JavaScript technologies jQuery and AJAX"	Dr.Keyur Brahmbhatt	Prof. Vishal Polara Prof. Hiren Patel	29/07/2017	Mr.Maunil Swadas
8	Industry Visit	Dr.Keyur Brahmbhatt	Prof. Krupali H. Shah	01/08/2017to 02/08/2017	Atlanta Transformer, Fine Cast Pvt,Ltd, AMUL Dairy, Rhino machines Pvt., Ltd
9	Village Visit	Dr.Keyur Brahmbhatt	Prof. Kanu Patel	04/08/2017	Napad Vanto,Anand
10	MYSY Awareness Program	Dr.Keyur Brahmbhatt	Prof. Kanu Patel	13/09/2017	Prof. Kanu Patel
11	Expert talk On “3D Computer Graphics and Animation Techniques”	Dr.Keyur Brahmbhatt	Mrs. Zankhana H. Shah	22/9/2017	Dr. Narendra M. Patel,BVM
12	Industry Visit to “ISRO Ahmadabad”	Dr.Keyur Brahmbhatt	Prof. Nilesh Prajapati Prof. Samip Patel	23/09/2017	ISRO Ahmadabad

13	Expert talk on “4G /LTE /Recent advanced versions of Wi-Fi ”	-----	Prof. Vishal Polara Prof. Chintan Mahant	23/09/2017	Mr. Harshavadan Jani, GM , Reliance Jio Infocomm.
14	Project Presentation Event	Dr.Keyur Brahmbhatt	Dr.Keyur Brahmbhatt Prof. Chintan Mahant	09/10/2017	Mr. Deep Trivedi(Moweb Pvt.Ltd) Mr. Utsav Thakar (Investsis Pvt.Ltd)
15	Workshop on Android Application Development	Dr.Keyur Brahmbhatt	Mrs. Zankhana H. Shah	16/11/2017	---

1)CodeVita

Event Name:	Code-Vita
Date:	13-07-2017, 14-07-2017
Venue:	BVM Engineering Collage
Industry Name:	TCS
Duration:	2 days
Total Number of Students:	43
Event Coordinator:	Prof. Vatsal Shah

Overview of Topic

TCS CodeVita, a programming competition, is TCS way of attracting young impressionable college students to adopt this culture and experience joy of programming. TCS feels strongly about promoting the culture of Programming-As-A-Sport. After having run two seasons of the competition in India, CodeVita had gone Global in 2014, students from 6 Continents participated and total 1,32,066 students had registered for the contest across the globe. CodeVita is a team contest. A team must have 2 members. The contest will comprise of 3 rounds of coding. The registration portal provides necessary workflows to form the team online.

About Event

Birla Vishvakarma Mahavidyala Engineering College, organized two days event on "CodeVita" for 3rd & 4th year students on 13-14/07/2017. There were total 43 Participants from Information Technology department.

The motive of this event was

- ✓ Provide students an opportunity to showcase their programming talent and earn peer recognition and honour
- ✓ Provide an opportunity to showcase offerings of TCS to the academic world

2)Expert talk on “Cost Analysis of Algorithms”

Event Name:	Cost Analysis of Algorithms
Date:	15/07/2017
Venue:	B401, B-Block, BVM Engineering College, V.V.Nagar
Expert Name:	Mr. Jay Vala Assistant Professor ,IT Department G.H.Patel Collage of Engineering
Total Number of Students:	19
Event Coordinators:	Prof. Kanu Patel Prof. Vatsal Shah
Event Convener:	Dr. Keyur Brahmbhatt

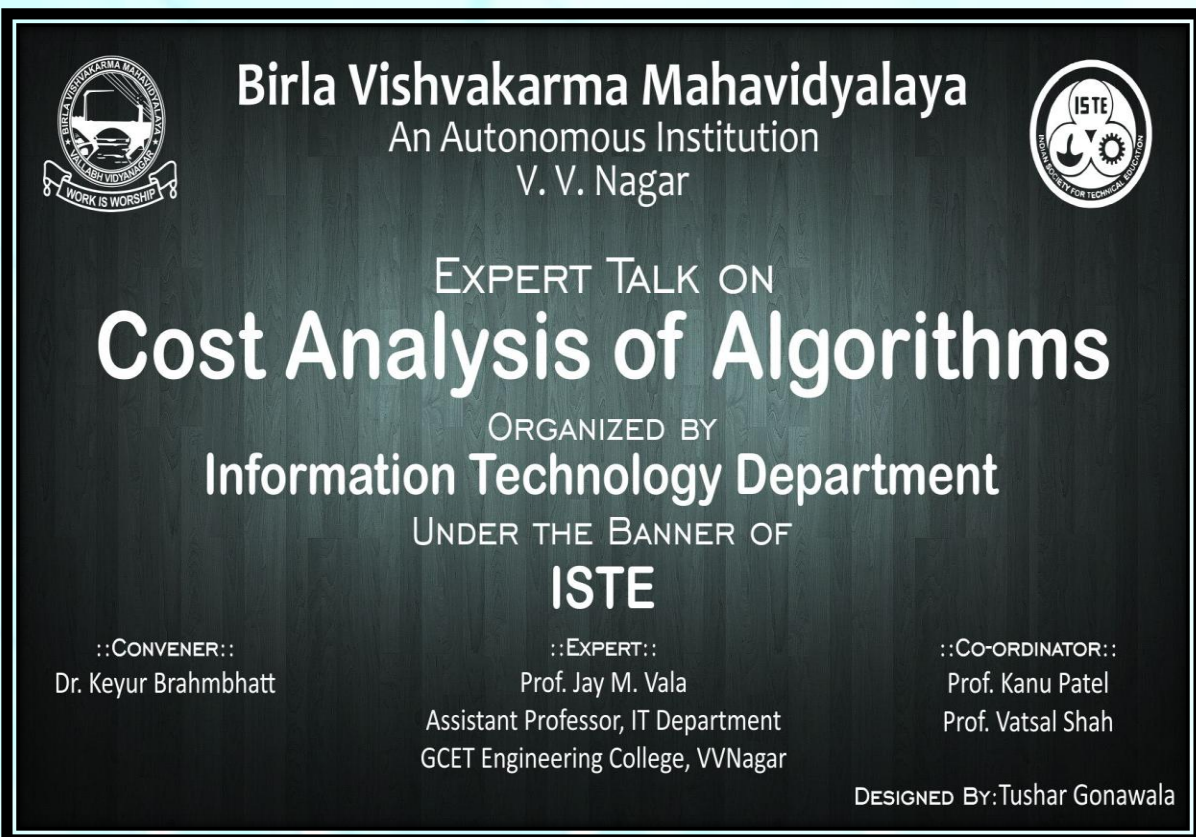
About Expert talk



On date 15th July, 2017 IT department of BVM orgnized expert talk on "Cost analysis of algorithms". The talk was conducted by one of the experts Mr Jay Vala, Assistant Professor at IT Department; GCET College. Around 19 students from 3rd level IT branch took part in this event. Main focus of the expert talk was on to find cost of algorithms. Duration of talk is 2hr starting from 10:30 to 12:30 PM. Sir has disscus about algorithm efficiency, type of notation and amortize analysis. While analyzing the given fragment of code various programming synatx will use, So for those statement we have to find the cost using this amortize approch.

The motive of workshop:

Cost analysis is very important concept of algorithm, its use to find the cost of any algorithm, there are three different techniques to estimate the cost of algorithm. In computer science, amortized analysis is a method for analyzing a given algorithm's time complexity, or how much of a resource, especially time or memory, it takes to execute. The motivation for amortized analysis is that looking at the worst-case run time per operation can be too pessimistic.

Banner:



 **Birla Vishvakarma Mahavidyalaya**
An Autonomous Institution
V. V. Nagar 

EXPERT TALK ON
Cost Analysis of Algorithms
ORGANIZED BY
Information Technology Department
UNDER THE BANNER OF
ISTE

::CONVENER::
Dr. Keyur Brahmhatt

::EXPERT::
Prof. Jay M. Vala
Assistant Professor, IT Department
GCET Engineering College, VVNagar

::CO-ORDINATOR::
Prof. Kanu Patel
Prof. Vatsal Shah

DESIGNED BY: Tushar Gonawala

Glimpses of the Event:





બિરલા વિશ્વકર્મા મહાવિદ્યાલય ખાતે 'કોસ્ટ એનાલિસિસ ઓફ અલગોરિધમ' વિષયે સેમિનાર



આણંદ, તા. ૧૬
ચારૂતર વિદ્યાભંડળ સંચાલિત
બિરલા વિશ્વકર્મા મહાવિદ્યાલય
એન્જિ. કોલેજ ખાતે આઈએસટીઈ
તથા આઈટી ડિપાર્ટમેન્ટ અંતર્ગત
ડો. ઈન્દ્રજીત એન. પટેલ
... પાન ૧નું ચાલુ
પીચોને અસર કરે તે પ્રકારના તમામ
પી ચિદંબરમ પહેલાથી કરી ચક્યા છે

(પ્રિન્સિપાલ, બી.વી.એમ.
એન્જિ. કોલેજ) તથા ડો. કેયુર
બ્રહ્મભટ્ટ (હેડ, આઈટી
ડિપાર્ટમેન્ટ)ના માર્ગદર્શન હેઠળ
કોસ્ટ એનાલિસિસ ઓફ
અલગોરિધમ વિષય પર એક
દિવસીય સેમિનારનું આયોજન
કરાયું હતું.
જેમાં એક્ષપર્ટ તરીકે જીસેટ

એન્જિ. કોલેજના અધ્યાપક પ્રો. જય
વાલાએ વિદ્યાર્થીઓને અલગોરિધમ
એફિસીયન્સી, કોમ્પ્લેક્સીટી
એનાલિસિસ તથા એમોટાઈઝર
એનાલિસિસ વિશે માર્ગદર્શન પૂરું
પાડ્યું હતું. કાર્યક્રમને સફળ બનાવવા
માટે પ્રોગ્રામ કો-ઓર્ડિનેટર પ્રો. કનુ
પટેલ તથા પ્રો. વત્સલ શાહે જહેમત
ઉઠાવી હતી.

3)How to crack GATE and How to crack PSU

Event Name:	How to crack GATE and How to crack PSU
Date:	15-7-2017
Venue:	B304, B-Block, BVM Engineering College, V.V.Nagar
Expert Name:	Ms. NagisVahora
Duration:	9:00-10:30
Total Number of Students:	21
Workshop Coordinator:	Prof. Krupali H. Shah
Event Convener:	Dr. Keyur Brahmbhatt

Overview of Topic

GATE exam plays a very pivotal role in career of any students. The key points regarding this exams and strategic planning for the exam was discussed. Advantages of clearing GATE exams were discussed. Also it was discussed in detail how GATE exam can play a pivotal role for students aspiring to clear PSU exams.

About Event

Information Technology and Electronics department of BVM Engineering College had organized One day Workshop on “How to crack GATE and How to crack PSU” for 2nd ,3rd and 4thyear students on 15-7-2017, 2017 for 1.5Hours. There were total 21 participants, who attended the workshop, among them 12 from 2nd year,4 from 3rd year and 5 from 4th year. The expert was invited from Gateforum, Vallabh Vidyanagar.

The topics were covered in the workshop as below:

1. Gate exam pattern was discussed covering following topics:
 - a. Total no. of questions.
 - b. Total marks
 - c. Negative marking.
2. Advantages of GATE were discussed like:
 - a. 12,400 per month stipend.
 - b. Abroad study in Singapore and Germany.
 - c. IIMs opportunities.
 - d. 25,000 per month as stipend(if opt FMP program through GATE).
3. Cut offs for various branches for GATE 2017 were discussed.
4. Importance of GATE exams for PSU jobs was discussed in detail.

The motive of this workshop was students can learn basics of clearing GATE and also the PSU (Public Sector Undertaking) Exams.

Glimpses of the Event



બિરલા વિશ્વકર્મા મહાવિદ્યાલય ખાતે
**ઉચ્ચ શૈક્ષણિક કારકિર્દી માર્ગદર્શન
વિષયે સેમિનાર યોજાયો**



આણંદ, તા. ૨૨
ચારૂતર વિદ્યામંડળ સંચાલિત
બિરલા વિશ્વકર્મા મહાવિદ્યાલય
એન્જિ. કોલેજ ખાતે આઈ.ટી. તથા
ઈલેક્ટ્રોનિક્સ એન્જિ. વિભાગ દ્વારા
ડો. ઈન્દ્રજીત એન. પટેલ
(પ્રિન્સિપાલ, બી.વી.એમ.) ડો.
કેચુર બ્રહ્મભટ્ટ (હેડ, આઈ.ટી.) તથા
ડો. તન્મય પવાર (હેડ,
ઈલેક્ટ્રોનિક્સ)ના માર્ગદર્શન હેઠળ “
હાઉટુ કેક ગેટ એક્ઝામ એન્ડ હાઉ
ટુ કેક પબ્લિક સેક્ટર યુનિટ

(પી.એસ.યુ.) એક્ઝામ” વિષય
ઉપર એક દિવસીય સેમિનારનું
આયોજન થયું હતું. જેમાં ગેટ
ફોરમના નાજસ વહોરાએ ઉપસ્થિત
વિદ્યાર્થીઓને વિવિધ કોમ્પીટીટીવ
એક્ઝામમાં સફળતા કેવી રીતે
મેળવવી એ વિશે માર્ગદર્શન પૂરું
પાડ્યું હતું.

આ પ્રોગ્રામને સફળ બનાવવા
માટે પ્રોગ્રામ કો ઓર્ડિનેટર્સ પ્રો. કૃપાલી
શાહ તથા ડો. ડી. એલ. વાલાએ ભારે
જહેમત ઉઠાવી હતી.

4) Expert talk on “Career Opportunities” By Endeavor

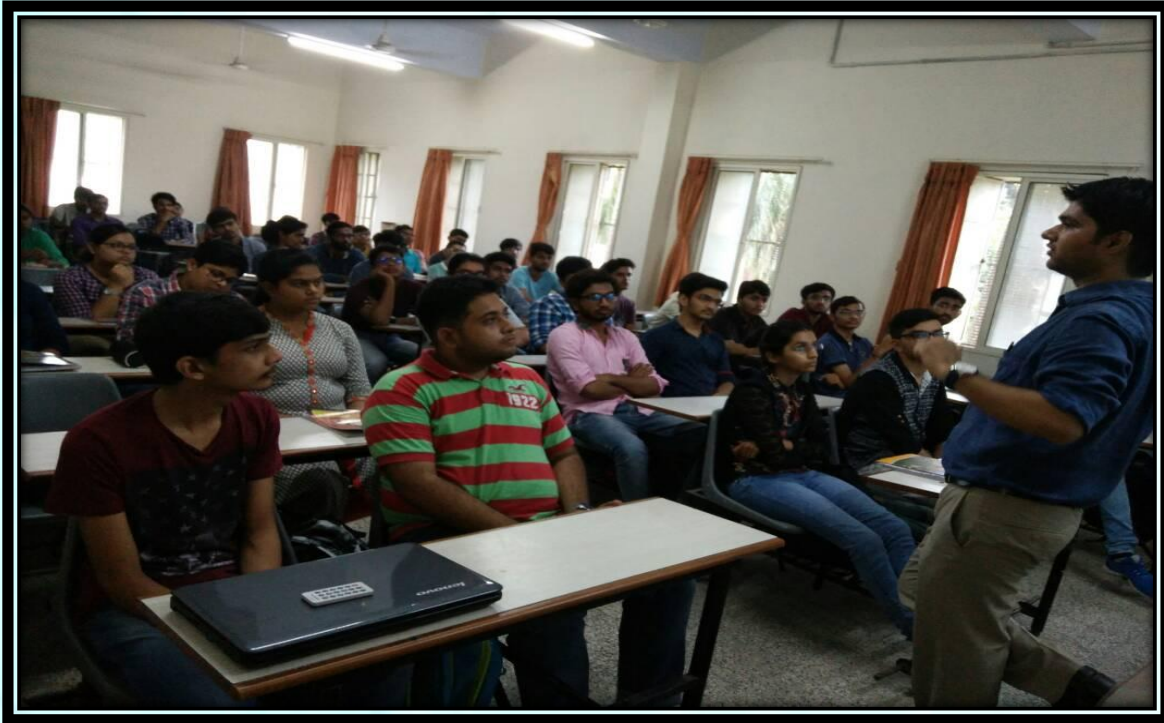
Event Name:	“Career Opportunities” By Endeavor
Date:	18/07/2017
Venue:	B304 ,B-Block BVM Engineering College, V.V.Nagar
Industry Name:	Endeavor
Duration:	2 hour
Total Number of Students:	51
Event Coordinators:	Prof.Prachi Shah Prof.Priyank Bhojak
Event Convener:	Dr. Keyur Brahmbhatt

About Expert talk

Information Technology department of BVM Engineering College had organized expert talk on “Career Opportunities” associate with Endeavor Careers for 3rd year students on 18/07/2017 for 2 Hours. There were total 51 Participants, who attended the expert talk. The expert was invited from Endeavor industry.

Endeavor’s DNA is designed to shape not just the aptitude, but also the attitude of young aspirants and inspire a confidence in them as they get ready to take on life head on. With an ever improving team that supports the highest level of service delivered in the industry, Endeavor has created a niche which is unmatched. This resonates in the slow but steady growth of the company which reinsures growth with a cautious but long term approach.

Glimpses of the Event:



5)Event on “Jumping into Computers”

Event Name:	Jumping into Computers (ISTE Students Chapter)
Date:	22-7-2017
Venue:	BVM Engineering College, V.V.Nagar
Duration:	1 day
Total Number of Students:	73
Event Coordinator:	Prof. Hiren Patel Prof. Vishal Polara
Event Convener:	Dr. Keyur Brahmbhatt

About Event

Birla VishvakarmaMahavidyala Engineering College, Gujarat organized an activity on theme of “Jumping into Computers” on 22nd July 2017 for student of second year Computer Engineering and Information Technology Department where 73 students participated in the activity. The programme was coordinated by Prof. Hiren Patel, Faculty Advisor of ISTE Students’ Chapter under guidance of Principal Dr.Indrajit Patel and head of department Dr.Keyur Brahmbhatt.

The activity was organized and evaluated in form of competition. Following were the toppers at the end of evaluation:

Sr.	Name	Department-College
1	MananGabani	CP – BVM
2	SmitKadiya	IT – BVM
3	RohanBarkhatariya	CP – BVM

Event Description:

Event consists of two rounds. First round will consist of paper based test on technical questions (crosswords, MCQ& et all). Second round will be based on coding(C++), where on solving one question, candidate will get a clue to solve second question.

Glimpses of the Event





Information Technology Department

6) Event on “STARTUP INDIA YATRA”

Event Name:	STARTUP INDIA YATRA
Date:	23-7-2017
Venue:	Auditorium, BVM Engineering College
Duration:	1 day
Estimated students	250
Department Coordinator:	Prof.Chintan Mahant

About Event

Start up India Yatra is a unique initiative by the Start up India hub of Government of India to reach out to students and entrepreneurial aspirants residing/studying or working on path breaking ideas in every smallest town or city of Gujarat. This yatra was the ultimate platform for such student startup/ideas to interact and connect with eco system partners, prospective incubation centers, mentors and investors who might in future would be investing in those ideas.

The top teams who got selected at venue would then be participating in the grand finale at IIM-A, where they would be competing against such ideas coming from 3 other venues. Students with their own startup ideas or just students who might not have an idea, but have the zeal to generate an idea during the event to solve a real life problem were participated in event.

SCHEDULE:

- Arrival of Guests at BVM, Conference Room: 8.30 am
- Session with the guest and expert in principal conference room: 9.00 to 9:30am
- Registration and tea/coffee 9:00 to 9:30am
- Formal inaugural program at BVM Auditorium: 9.30 to 10:30am

PROCEEDINGS:

Invocation:	Lighting of lamp and Prayer
Welcome & Introduction:	Dr. Bhargav C. Goradiya
Floral Welcome:	
Opening remarks	Dr. I. N. Patel (Principal)
Address by	Mr. Yash Saxena
Address by	Mr. Kalp Bhatt
Address by	Mr. Mitul Dadhanania
Address by	Ms. Jasleen Lamba
Address by	Er. Jagdish Patel
Address by	Dr. Dhaval Patel
Vote of Thanks	Dr. Rajvirsinh Rana
National Anthem	

Guests/Dignitaries on Dais

(1) Dr. I. N. Patel (2) Er. Jagdish Patel (3) Dr. Dhaval Patel (4) Dr. B. C. Goradiya
(5) Ms. Jasleen Lamba (6) Mr. Kalp Bhatt (7) Mr. Mitul Dadhanania (8) Mr. Yash Saxena

Masters of Ceremony(for inaugural ceremony): (i) Mohan Iyer (ii) Nijanshi Thakkar

Session I	Dr. Dhaval Patel	What is Anand is doing in terms of Startup India	10:30 to 11:00am
Session II	Mr. Mitul Dadhanania	what is web chankya and what has his journey been in starting up	11:00 to 11:30am
Session III	Miss Jasleen Lamba	What is Startup India, How does it help students in specific locations	11:30 to 12:30 pm
Lunch break			12:30 to 1:30 pm
Parallel session I	Expert Panel	Idea Pitching and Selection of winner	1:30 pm onwards
Parallel session II	Mr. Yash Saxena	Ideation Workshop	1:30 pm onwards

In the event Tushar Gonawala and Pancham Khaitan are selected for next round from IT department. Following were the Students Winner list from BVM Collage:

No.	Name	Mobile No.	Idea	College
1	Gautam Vivekanandan	8758192989	Run-A-Way	BVM
	Shikhar Maheshwari			BVM
2	Shubh Majumdarr	7405542192	Organic Compose Farming	BVM
2	Tushar Gonawala	7984182301	Mason-Augmented Reality	BVM
4	Pancham Khaitan	9825626797	Targeted advertising with indoor tracking	BVM
	Varis Bhalala			BVM
8	Adarsh Parmar	7600056773	Water Cool Condenser in commercial AC	BVM
	Yash Tarpara			BVM
9	Saifuddin Dalal	9574520618	Modified Engineering Compass	BVM
10	Pranav Pandya	9510052183	Solar Drone	BVM
	Shaaqib mansuri	7984525942		BVM
	Shah Chancy	9408450105		BVM

Glimpses of the Event



બિરલા વિશ્વકર્મા મહાવિદ્યાલય ખાતે “સ્ટાર્ટઅપ ઇન્ડિયા યાત્રા” વિષયે પરિસંવાદ યોજાયો



આણંદ, તા. ૨૯ ચારૂતર વિદ્યામંડળ સંચાલિત બિરલા વિશ્વકર્મા મહાવિદ્યાલય ખાતે સ્ટાર્ટઅપ ઇન્ડિયા યાત્રા અને ઓપન ફ્યુચર ખાતે સ્ટાર્ટઅપ ઇન્ડિયા યાત્રા વિષય પર એક દિવસીય વર્કશોપ અને સ્પર્ધાનું આયોજન થયું હતું.

ઉલ્લેખનીય છે કે ભારત સરકાર દ્વારા આયોજિત સ્ટાર્ટઅપ ઇન્ડિયા હબનો મૂળ ઉદ્દેશ દેશના અલગ અલગ ભાગમાંથી આંતરેન્યોર ને તૈયાર કરવા તથા તેમના માટેની

જરૂરિયાતો પૂર્ણ કરવા સ્ટાર્ટઅપ પ્લેટફોર્મ ઉભું કરવાનો છે.

આ પ્રસંગે યશ સક્સેના (ઓપન ફ્યુચર) કલ્પ ભટ્ટ (આંતર પ્રિન્યોર), મીતુલ દધાનીયા (આંતર પ્રિન્યોર, વેબ યાજ્ઞક્ય), જસ્વીન લાંબા (સ્ટાર્ટઅપ હબ, દિલ્હી), ડૉ. ઇન્દ્રજીત પટેલ (પ્રિન્સિપાલ, BVM), ડૉ. ભાર્ગવ સી. ગોરડીયા (હેડ, EC), પ્રો. જે. એન. જૈન (IIT Cell), હાજર રહ્યા હતા. કાર્યક્રમની શરૂઆત પ્રાર્થના ગીતથી થઈ હતી. આ પ્રસંગે ડૉ.

ભાર્ગવ ગોરડીયાએ સ્ટાર્ટઅપ નું મહત્વ સમજાવ્યું હતું.

ડૉ. ઇન્દ્રજીત પટેલે આંતર પ્રિન્યોરશીપ માટે જરૂરી સ્કીલ તથા તેના દ્વારા દેશની સેવામાં યોગદાનનું મહત્વ સમજાવ્યું હતું. આ કોન્ટેસ્ટમાં ૨૯૫ થી વધુ વિદ્યાર્થીઓએ ભાગ લીધો હતો. જેમાં ૧૪ જેટલા બિઝનેસ આઈડીયા IIM માટે પસંદ કરાયા. અંતે ડૉ. રાજવિરસિંહ રાણાએ આભારવિધિ કરી હતી.

બી.વી.એમ. ખાતે સ્ટાર્ટઅપ ઈન્ડિયા દ્વારા પરિસંવાદ યોજાયો

આણંદ, તા. ૨૮ ચાફ્ટર વિદ્યામંડળ સંચાલિત બિરલા વિશ્વકર્મા મહાવિદ્યાલય ખાતે સ્ટાર્ટઅપ ઈન્ડિયા યાજ્ઞા અને ઓપન ફ્યુઝલ ના સંયુક્ત ઉપક્રમે સ્ટાર્ટઅપ ઈન્ડિયા યાત્રા વિષય પર એક દિવસીય વર્કશોપ અને કોમ્પીટીશનનું આયોજન થયું.

આ કાર્યક્રમમાં કોલેજના ઈ.સી. હેડ ડો. ભાગવ ગોરડીયાએ સ્ટાર્ટઅપનું મહત્વ સમજાવ્યું હતું. આચાર્ય ડો. ઈન્દ્રજીત પટેલે આંત્રપ્રેન્યોરશીપ માટે જરૂરી સ્કીલ તથા તેના દ્વારા દેશની સેવામાં યોગદાનનું મહત્વ સમજાવ્યું હતું. આ કોન્ટેસ્ટમાં ૨૯૫ જેટલા વિદ્યાર્થીઓએ ભાગ લીધો હતો. જેમાં ૧૪ બિઝનેસ આઈડીયા આઈઆઈએમ માટે પસંદ થયા હતા. અત્રે ઉલ્લેખનીય છે કે ભારત સરકાર દ્વારા આયોજિત સ્ટાર્ટઅપ ઈન્ડિયા હબનો મૂળ ઉદ્દેશ દેશના અલગ અલગ ભાગમાંથી આંત્રપ્રેન્યોરને તૈયાર કરવા તથા તેમના માટેની



બી.વી.એમ ખાતે યોજાયેલા સ્ટાર્ટઅપ ઈન્ડિયા પરિસંવાદમાં સ્વાગત પ્રવચન કરતા આચાર્ય ડો. ઈન્દ્રજીત પટેલ બાજુમાં સ્ટાર્ટઅપ ઈન્ડિયા અને ઓપન ફ્યુઝલના અધિકારીઓ છે. નીચેની તસ્વીરમાં વિદ્યાર્થીઓ નજરે પડે છે.

(તસ્વીર : સલીમ, મમતા સ્ટુડીઓ, વિદ્યાનગર)

જરૂરીયાતો પૂર્ણ કરવા પ્લેટફોર્મ ઉભું કરવાનો છે. આ પ્રસંગે યશ સક્સેના (ઓપન ફ્યુઝલ) કલ્પ ભટ્ટ (આંત્રપ્રેન્યોર), મીતુલ દધાનીયા (આંત્રપ્રેન્યોર, વેબ

ચાણક્ય), જસ્વીન લાંબા (સ્ટાર્ટઅપહબ, દિલ્લી), પ્રો. જે.એન. જેન હાજર રહ્યા હતા. અંતે ડો. રાજવિરસિંહ રાણાએ આભારવિધિ કરી હતી.



STARTUP INDIA YATRA

1000 ENTREPRENEURS. 24 STATES. 1 COUNTRY



ORGANISERS:

#startupindia



VENUE PARTNERS



7)Workshop on “JavaScript technologies jQuery and AJAX”

Event Name:	JavaScript technologies jQuery and AJAX
Date:	29-7-2017
Venue:	BVM Engineering College, V.V.Nagar
Duration:	1 day
Expert Name:	Mr.Maunil Swadas
Total Number of Students:	60
Workshop Convener:	Dr. Keyur Brahmbhatt
Workshop Coordinator:	Prof. Hiren Patel Prof.Vishal Polara
Student Coordinator	Elize Modi Bhairavi Vaidya

About Workshop

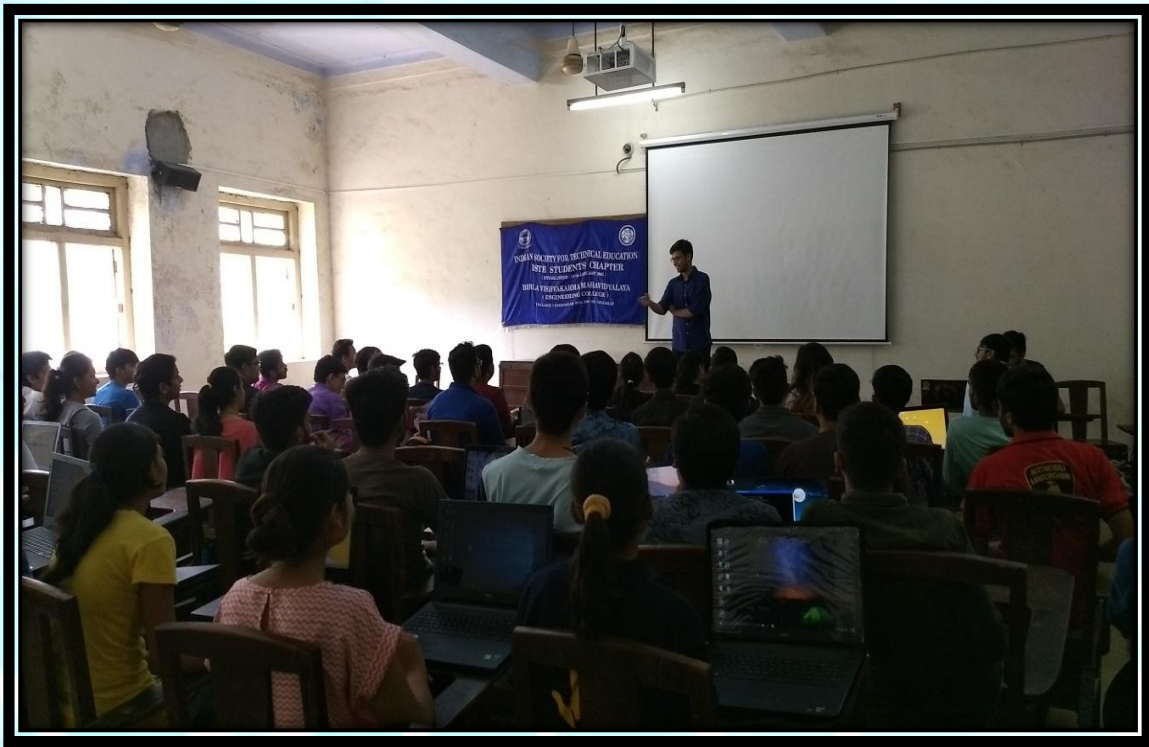
Birla Vishvakarma Mahavidyala Engineering College, VallabhVidyanagar, Gujarat organized an Workshop on theme of "JavaScript technologies jQuery and AJAX" on 29th July 2017 for students of 3rd year Computer Engineering and Information &Technology Department. The session was delivered by Mr.Maunil Swadas. The programme was coordinated by Prof. Hiren Patel, under guidance of Principal Dr.Indrajit Patel and head of department Dr.Keyur Brahmbhatt and Dr. D. G. Thakore.

A workshop on JavaScript technologies jQuery and AJAX, used for the web development. Both the technologies play a major role in the creative single page web applications. With the help AJAX the application connectivity can be done to the backend will be shown. The session was conducted by an expert of the field Mr. Maunil Swadas, ex BVMite who is currently working with this technologies.

The motive of workshop:

Students were able to develop their ideas on website development also able to create single page applications also enhance their knowledge on the implementation of these technologies.

Glimpses of the Event





8) Industry Visit: (1st Year Bridge Course)

Visit:	Industry Visit for 1st Year Bridge Course
Industry:	Atlanta Transformer, Fine Cast Pvt,Ltd, AMUL Dairy, Rhino machines Pvt., Ltd
Date:	01/02-08-2017
Total Number of Students:	50
Event Coordinator:	Prof. Krupali H. Shah
Event Convener:	Dr. Keyur Brahmbhatt

About Event

The Industry visit for 1st Year Bridge course had started on 1st and 2nd august from BVM Engineering College to different Industry. Student Visited total four Industry (Atlanta Transformer, Fine Cast Pvt,Ltd, AMUL Dairy, Rhino machines Pvt., Ltd) under the coordination of Prof. Krupali H. Shah. Details about Industry were following.

AMUL Dairy

Students had a very interesting experience at Amul dairy Anand, as this visit had combination of technical and management exposure. Students showed keen interest in asking questions about the management of the milk which is taken from rural area to the plants also about the supply chain management system of the prepared good. Students had very good technical exposure as they were able to see the process of packing which is completely automatic. They also showed keen interest in undergoing industrial training.

Atlanta Transformer

From the visit students came to know the process involved in making a Transformer. Students witnessed the practical model of a 132/66Kv transformer. All the components, types of windings, process of windings were explained excellently.

Fine Cast Pvt.Ltd

Technical staff of Fine cast industry explained various technologies regarding casting to the students and also provided clarification to their queries. Overall visit was very informative and students were happy to visit Fine cast industry. It may help students to easily understand the concept of casting, pattern making, foundry, etc.

Rhino machines Pvt. Ltd

Students were introduced to the new technology of sand reclaiming technology which is green and clean for our environment. Sand Reclamation can be termed as the process of reconditioning of used sand in a foundry without lowering its original properties, which are particularly required for foundry application. Unlike mechanical reclamation, 100% sand, except those reduced to dust, is reclaimed to better-than-new condition

Glimpses of the Event



Information Technology Department



Information Technology Department

9)Village Visit: (1st Year Bridge Course)

Visit:	Village Visit for 1st Year Bridge Course
Village:	'Napad Vanto' ,Anand
Date:	04-08-2017
Total Number of Students:	50
Event Coordinator:	Prof. Kanu Patel
Event Convener:	Dr. Keyur Brahmbhatt
Event Convener:	Dr. Keyur Brahmbhatt

About Village Visit...

BVM had arranged a village visit tour for the 1st year students. In IT department, Prof. Kanubhai Patel organized a one day village visit tour. Morning at 9 o'clock all the students of IT department were come at college campus. The number of students were present on that day. All the students were excited. The name of the village when we were visited its 'Napad Vanto' located at Taluka: Anand Dist: Anand, Gujarat. About 12 kms. Far from our college. First of all we were visited at Gram-Panchayat office and meet Sarpanch of the village. And then all the students were divided in 5 groups. Each group had one group leader. Almost 3000 family were stay there. The populations of the village were 14,260. In the village about 84.45% people educated. Agriculture is the main occupation of the villagers. The main product of farming is tobacco. Most of the villagers had there own animals like cows, buffaloes, etc. Most of the lands were used in farming. There were two type of road in the village. The road was clean. The bus-station was also in the village but not railway station. There were four primary school and

one secondary school in the village and two small hospitals. There were a big lake middle in the village. There were drange systems in whole village covering all the houses. There were pumping station for drinking water. There were electricity in the village. We enjoy lot whole day in village. End of the day, we all were come on our college with a great memory.

Glimpses of the Event





10) MYSY Awareness Program

Event Name:	MYSY Awareness Program
Date:	13-09-2017
Total Number of Students:	300 +
Venue:	Auditorium, BVM Engineering College
Duration:	1 day
Event Coordinator:	Prof. Kanu Patel
Event Convener:	Dr. Keyur Brahmbhatt
Guided By:	Dr. Indrajit N Patel

About MYSY...

The Education Department Resolution for Mukhyamantri Yuva Swavalamban Yojana in a year ago. The Gujarat government begins Gujarat Mukhyamantri Yuva Swavalamban Yojna (MYSY) for affirmation understudies in their first year degree courses or first year and Second year confirmation courses, who are qualified according to the states of this plan, can now make an online application to profit by this plan. The Gujarat (MYSY) Mukhyamantri Yuva Swavalamban Yojna has its own particular authority connect at mysy.guj.nic.in.

Glimpses of the Event



11) 3D Computer Graphics and Animation Techniques

Event Name:	Expert talk On “3D Computer Graphics and Animation Techniques”
Date:	22-09-2017
Time:	4:00 pm to 5:00 pm
Total Number of Students:	65
Expert Speaker:	Dr. Narendra M. Patel, Associate Professor, Computer Engg. Department, BVM
Event Coordinator:	Mrs. Zankhana H. Shah
Event Convener:	Dr. Keyur Brahmbhatt

About Event...

An expert talk on “3D Computer Graphics and Animation Techniques” was organized on 22nd September, 2017 at 4:00 pm for 3rd year IT students. Dr. Narendra M. Patel, Associate Professor, Computer Engg. Department, BVM rendered his service as an expert speaker. Mrs. Zankhana Shah coordinated the activity.

Dr. Narendra M. Patel briefed the students about 3D computer graphics and its importance in the world of animations and automations. He also explained the boundaries between computer graphics, image processing and computer vision. The students were briefed about different techniques of rendering a 3D model in 2D screen. The different techniques and methods of adding more realism in an image were also discussed. Dr. N. M. Patel also gave brief overview of importance of curves and surfaces in rendering a 3D model. He also explained the students, how a 3D model like cube can be generated on 2D screen using different transformations like projections and rotations. Later, different animation techniques and methodology were discussed in brief. He nicely explained the way

of generating simple animation sequence by the concepts of generating key frames. At the end, he insisted the students to perform the same in laboratory either using OpenGL or TurboC.

Glimpses of the Event





12) Industry Visit to “ISRO Ahmadabad”

Event Name:	Industry Visit to “ISRO Ahmadabad”
Date:	23-09-2017
Pick up point:	BVM Engineering College, V. V. Nagar
Place of Industry Visit:	ISRO Ahmadabad
Total Number of Students:	25
Event Coordinator:	Prof. Nilesh Prajapati Prof. Samip Patel
Event Convener:	Dr. Keyur Brahmhatt

About Visit...

The industrial visit to ISRO, Ahmadabad had started on 23rd September, 2017 at 07:45 am from BVM Engineering College. 25 students of second year IT have taken part in this industrial visit which is coordinated by Prof. Nilesh B. Prajapati & Prof. Samip A. Patel. Students visited Exhibition of various Satellite and Space-shuttle from which they gained lots of knowledge about technologies, software and components used in space as well as in satellites. Students also got knowledge about “Mission Mars”. Memorable part of visit is, Students met and made fruitful conversations about "mission Mars" and how IT engineers can contribute in space technologies with Mr. Kalpesh Patel, who was the developer of camera for mission Mars. The beautiful journey of industrial tour reached to a happy and beautiful conclusion where each and every student gain lots of knowledge based on Satellite communication and Space-shuttle.

Glimpses of the Event



13) 4G /LTE /Recent advanced versions of Wi-Fi

Event Name: Expert talk on “4G /LTE /Recent advanced versions of Wi-Fi

Date: 23-09-2017

Expert Speaker: Mr. Harshavadan Jani ,GM ,
Reliance Jio Infocomm.

Event Coordinator: Prof. Vishal Polara
Prof. Chintan Mahant

Event Convener: Dr. Keyur Brahmbhatt

About Event...

A One Day Expert Talk Sessions on 4G-LTE technologies by Mr. Harshavadan Jani, GM, Network Department Reliance Jio Infocomm. Computer, Electronics, and Electronics and Communications Engineering , Information Technology Departments, ISTE Students' Chapter BVM and ISTE BVM Jointly Organized a One-Day Expert Lecture Sessions on 4G – LTE Technologies, by Mr. Harshavadan Jani, GM, Network Department Reliance Industries, for the Students, on 23rd September 2017 - Saturday.

The motivation for arranging this talk was to introduce the students to the most recent advancements in the field of Wireless Communication and Mobile Computing and also to get inputs for continuously updating our syllabuses and make them more and more industry relevant. About 90 students and several faculty members attended the program.

Glimpses of the Event



14) PROJECT POSTER PRESENTATION EVENT

Event Name:	Project Poster Presentation Event
Date:	09-10-2017
Total Number of Students:	63
Expert Name :	Mr. Deep Trivedi (Moweb Pvt.Ltd) Mr. Utsav Thakar (Investsis Pvt.Ltd)
Event Coordinator:	Dr.Keyur Brahmbhatt Prof. Chintan Mahant

About Event...

The Project poster presentation event organized by the department of Information Technology of BVM engineering college on 09thOctober 2017 at BVM Engineering College. Dr. KeyurBrahmbhatt and Prof.ChintanMahant were coordinators of the event. The expert from the various industries judge the event and based on that best 3 posters were selected out of total 18 posters (06 IDP +12 UDP = Total 63Students).

Following students were awarded for prizes and certificates in the Project Poster Presentation event which was conducted on 09th October 2017 at IT department of BVM Engineering College, V. V. Nagar.

Dept	Total No. of IDP/UDP groups		No. of Project	Experts from Industry	Winner Details		
	UDP:	IDP:					
IT	12	06	18	Mr. Deep Trivedi (MowebPvt.Ltd)	1 st	“Driving Simulation for RTO testing”	Abhishek Shah (140080116001) Aseem Thakkar (140080116006) GhanshyamSavaliya (140080116052) Jay Patel (140080116031)
				Mr. UtsavThakar (InvestsisPvt.Ltd)	2 nd	“MASON”	Tusharonawala(140080116059) Rahul Pipaliya(140080116044) Rudra Patel (140080116050) Rushang Patel (140080116064)
					3 rd	“FORCAS”	Vatsal Patel (140080116043) Tirth Patel (140080116042) Adhunik Rajput (140080116002)

Glimpses of the Event



Information Technology Department



15) Workshop on "Android Development"

Event Name:	One day workshop on "Android Development"
Date:	20-11-2017
Venue:	LRUC Hall, BVM
Duration:	8:30 am to 2:00 pm
Total Number of Participants:	18
Resource Person:	Pancham Khaitan (Student of 4th year IT & Lead, Google Developer Student Club, BVM)
Event Coordinators:	Prof. Zankhana Shah
Event Convener:	Dr. Keyur Brahmbhatt

About Event...

Developer Student Club, managed by Google, Birla Vishvakarma Mahavidyalaya chapter organized a one day workshop on Android Development on Sunday, 12th November, 2017. The workshop was conducted at the LRUC, BVM Library from 08:00 am - 02:00 pm. The workshop focused on understanding the basics of Java for Android Development and also on Android app development combining the concepts of Java and Android framework.

The host of this workshop was Pancham Khaitan — 4th year IT student, and lead of Developer Student Club, BVM. For assistance, students of 4th year IT, namely Varis Bhalala, Ghanshyam Savaliya and Jay Patel helped students clear their doubts, in case of any.

The Developer Student Club is managed by Google, and as it was the second workshop on Android, Google expected to get as minimum entries as possible. A total 18 students attended the workshop. Starting with Java, they built 3 apps on Android and then there was a 50-minute **Hackathon** that allowed the participants to build an app using the concepts they understood that day.

The event ended with a positive response from the students expressing their willingness to attend the next workshop as well, if any.

Glimpses of the Event





બીવીએમમાં એન્ડ્રોઇડ એપ્લિકેશન ડેવલપમેન્ટ વિષયે વર્કશોપ



આણંદ, તા. ૧૬
ચારુતર વિદ્યામંડળ સંચાલિત બિરલા વિશ્વકર્મા મહાવિદ્યાલય ખાતે ગુગલ સ્ટુડન્ટ ડેવલપર્સ ક્લબ અંતર્ગત એન્ડ્રોઇડ એપ્લિકેશન ડેવલપમેન્ટ વિષય પર એક દિવસીય વર્કશોપનું આયોજન કરવામાં આવ્યું હતું. જેમાં ૩૦થી વધારે વિદ્યાર્થીઓએ ઉત્સાહપૂર્વક ભાગ લીધો હતો. વર્કશોપના અંતે ૫૦ મિનિટનું ડેક્શનનું પણ આયોજન કરવામાં આવ્યું હતું.

ઉલ્લેખનીય છે કે અઘતન ટેકનોલોજીના યુગમાં ઘણી બધી

ઓપરેટીંગ સિસ્ટમમાં એન્ડ્રોઇડ અગ્રેસર છે. જેથી વિદ્યાર્થીઓ તેની વિવિધ એપ્લિકેશનથી માહિતગાર થાય તથા સરળ એપ્લિકેશન ડિઝાઇન શીખી શકે તે આ વર્કશોપનો મુળ ઉદ્દેશ્ય હતો.

સમગ્ર કાર્યક્રમનું સંચાલન ચોથા વર્ષના આઈ.ટી. એન્જિનિયરીંગના વિદ્યાર્થીઓ જય પટેલ, પંચમ ખેતાન, વારીસ, ઘનશ્યામ દ્વારા પ્રો. ઝંખના શાહ (ફેકલ્ટી મેન્ટર, ગુગલ સ્ટુડન્ટ ડેવલપર્સ ક્લબ), ડૉ. કેચુર બ્રહ્મભટ્ટ (હેડ, આઈ.ટી. એન્જિ.) તથા સંસ્થાના પ્રિ. ડૉ. ઈન્દ્રજીત એન. પટેલના માર્ગદર્શન



હેડળ થયું હતું.



Report Created By

**Prof. Priyank Bhojak
Assistant Professor**

Guided By:

**Dr. Keyur Brahmhatt
(Head, IT department)**

Information Technology Department

Birla Vishvakarma Mahavidyalaya (BVM)

Engineering College

(An Autonomous Institution)

*****_***_*****

Information Technology Department



Birla Vishvakarma Mahavidyalaya (BVM)

Engineering College

(An Autonomous Institution)

Information Technology Department

Student Activities Report

Academic Year 2017-18

(Semester-II)

Report of Student Activities for the academic year 2017-18

(Semester-II)

Sr.	Title of the Activity (Expert talk / Workshop / Industry Visit)	Convener	Coordinators	Date/Durati on	Resource Person/Industry
1	Awareness workshop for "Smart India Hackathon 2018"	Dr.Keyur Brahmbhatt	Prof.Priyank Bhojak	09/01/2018	LDCE , Ahmedabad
2	Expert talk on "Career Development"	Dr.Keyur Brahmbhatt	Prof. Zankhana Shah	09/01/2018	Mr. Bhavin Shah
3	Workshop on "IOT Applications in Smart Cars and Smart Health Monitoring"	-----	Prof. ChintanMahant	20/01/2018	Mr. Bhaskar Trivedi
4	Workshop on "Machine Learning and its tools"	Dr.Keyur Brahmbhatt	Prof. Vatsal Shah , Prof. Bijal Dalwadi	03/02/2018	Dr. Amit Thakkar
5	Expert talk on "Importance of Programming"	Dr.Keyur Brahmbhatt	Prof. Vishal Polara, Prof. Nilesh Prajapati	10/02/2018	Prof. Priyang Bhatt
6	Workshop on "Android Development"	Dr.Keyur Brahmbhatt	Prof. Zankhana Shah	11/02/2018	Mr. Pancham Khaitan
7	Expert Talk on "WORDPRESS"	Dr.Keyur Brahmbhatt	Prof. Nilesh B. Prajapati	10/03/2018	Mr. Jay Amin
8	Expert Talk on "Awareness of cyber Security and its tools"	Dr.Keyur Brahmbhatt	Prof. Kanu Patel Prof.PriyankBhojak	24/03/2018	Mr. Deven Gol
9	PROJECT EXPO-2018	Dr.Keyur Brahmbhatt	Dr.Keyur Brahmbhatt Prof. Chintan Mahant	20/04/2018	Mr. Sagar Sheth Mr. Sagar Shah
10	Industrial Visit at Aimtron	Dr.Keyur Brahmbhatt	Prof. Bijal Dalwadi, Prof. Vatsal Shah, Prof. Vishal Polara	21/04/2018	Aimtron, Vadodara
11	Expert talk on "Web Development Using PHP"	Dr.Keyur Brahmbhatt	Dr.Keyur Brahmbhatt Prof. Chintan Mahant	21/04/2018	Prof.Nilay Ganatra

1) Awareness workshop for “Smart India Hackathon 2018”

Event Name:	Awareness workshop for “Smart India Hackathon 2018”
Date:	09/01/2018
Venue:	L.D.College, University Area, Navrangpura, Ahmadabad, Gujarat.
Duration:	1 Day
Number of Students	29
Workshop Coordinators:	Prof. Priyank Bhojak, Prof. Dipan Parikh , Prof. Parul Panchal

About Workshop

Our Hon’ble Prime Minister, Shri NarendraModi, envisages a Digital India to bridge the digital divide in our country and further promote digital literacy in order to make development a comprehensive mass movement and put governance within everyone’s reach in India. In order to work towards our PM’s vision, MHRD, All India Council for Technical Education (AICTE), Inter Institutional Inclusive Innovation Center (i4C), and Persistent Systems organized Smart India Hackathon 2017, a unique initiative to identify new and disruptive digital technology innovations for solving the challenges faced by our country. The initiative was a huge success. To reiterate the efforts towards our PM’s vision, MHRD, AICTE, i4C, and Persistent Systems is proud to propose the 2nd edition of this initiative - **Smart India Hackathon 2018.**

The technical visit to Awareness workshop for 'Smart India Hackathon 2018, Ahmedabad had started on 09 January 2018 from BVM Engineering College. There was one bus containing 29 students and 3 faculties (Prof. DipanParikh ,Prof. PriyankBhojak,Prof. Parul Panchal).

The motive of this workshop was students can Aware about 'Smart India Hackathon 2018 competition as well as information about registration, eligibility for Student Team Members in SIH 2018. Also it can help to ignite the students to become as entrepreneur, for new inventions, Confidence building.

Glimpses of the Event:





2)Expert talk on “Career Development”

Event Name:	Expert talk on “Career Development”
Date:	09/01/2018
Venue:	Auditorium, BVM
Resource Person:	Mr. Bhavin Shah (1992 Batch Alumnus, EL branch, Project Manager, Oracle Corporation.
Duration:	9:30 am to 10:45 am
Number of Students:	80 (IT/CP/EL/EC/EE branches)
Event Coordinators:	Prof. Zankhana Shah

About Event

Computer, IT, Electronics, EC an Electrical departments of Birla Vishvakarma Mahavidyalaya had organized an expert talk on "career development" on Tuesday, 9th January, 2018 at BVM auditorium from 9:30 am to 10:45 am. The talk focused on following important aspects related to students' career development:

- Role of inner strength and weakness in Career Development
- Career Orientation
 - Advancement: Influence, impact and visibility
 - Security: company loyalty, symbols of appreciation
 - Challenge: excitement, adventure, “cutting edge” work
 - Freedom: control over own work
 - Balance: better work life balance, self-development
- Corporation Business Units
- Shared partnership between the employee and the manager
- Achieving short-term and long-term goals with proper planning and execution

The host of this workshop was Mr. Bhavin Shah. he has done his Bachelors in Electronics from BVM and Masters in Computer Engineering from Stevens Institute of Technology, New Jersey USA. He has overall 20 years of experience and has worked for Intel Corporation and Hewlett Packard Enterprise and currently working for Oracle Corporation, USA.

The talk ended with a positive response from the students and fruitful question-answer session.

Glimpses of the Event:



3) IOT Applications in “Smart Cars and Smart Health Monitoring”

Event Name:	IOT Applications in “Smart Cars and Smart Health Monitoring”
Date:	20/01/2018
Venue:	LRUC hall, BVM Library
Resource Person:	Mr. Bhaskar Trivedi E-Infochips
Duration:	1 Day
Number of Students:	80
Workshop Coordinator:	Prof. Chintan Mahant

About Event

Computer and Electronics Engineering Departments, jointly organized an expert lecture on was "IOT Applications in Smart Cars and Smart Health Monitoring", at LRUC hall, BVM Library, on Saturday, 20/1/2018, during 11.30 AM to 1.00 PM, with an industry expert Mr. Bhaskar Trivedi from E-Infochips, as an Industry Institute Interaction activity under TEQIP-III. The Information Technology and Electronics and Communication departments also participated at organizing the program, under the banners and academic partnership of

1. ISTE Chapter BVM
2. ISTE Students' Chapter BVM
3. I.E. (I) Electronics Engg. Students' Chapter

The lecture was inaugurated by the principal sir Dr. I N Patel BVM engineering college.

The expert lecture was delivered by Mr. Bhaskar Trivedi and his team from E-infochips, Ahmedabad.

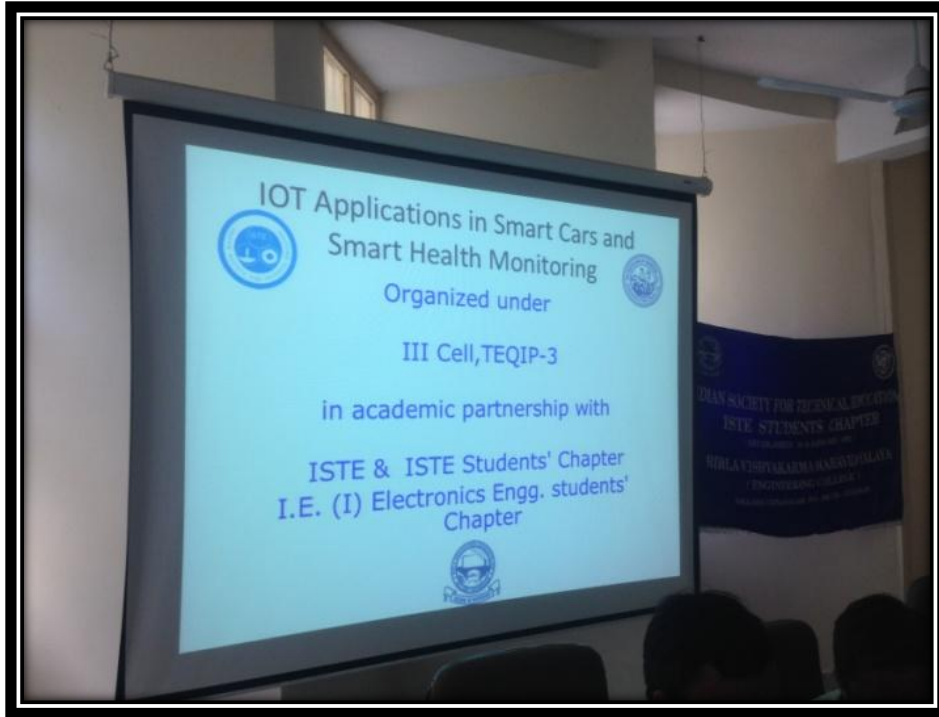
It was good experts lecture with illustrating the applications of IOT in Smart Cars and Health Monitoring in near future.

Nearly 80 students participated from CP,EL,EC and IT departments. Many heads and faculty members from various departments were also present. Prof. S A Bakhru Computer Engineering department, Dr.

Deepak Vala, Electronics Engineering Department, Prof. Chintan Mahant from IT and Prof. Hiren Patel from EC departments coordinated the program.

Glimpses of the Event :





4)Workshop on “Machine Learning and its tools”

Event Name:	Workshop on “Machine Learning and its tools”
Date:	03/02/2018
Venue:	B304, B-Block BVM Engineering College
Resource Person:	Dr. Amit Thakkar Associate Professor, ITDept, Charusat
Duration:	1 Day
Number of Students	24
Workshop Coordinators:	Prof. Vatsal Shah , Prof. Bijal Dalwadi
Event Convener:	Dr. Keyur Brahmhatt

About Event

On date 3rd February, 2018 IT department of BVM organized one day workshop on "Machine Learning and its tools". Workshop was conducted by expert Dr. Amit Thakkar, Associate Professor at Information Technology Department, Charusat College. Around 24 students from 3rd level IT branch took part in this workshop. Main focus of the workshop was to do hands on practical with Machine learning tools. There is a wide range of open source machine learning frameworks available like orange tool, Apache Singa, Amazon Machine Learning (AML) etc. Machine learning explores the area of algorithms, which can make high end predictions on data. In recent times, machine learning has been deployed in a wide range of computing tasks, where designing efficient algorithms and programs becomes rather difficult, such as email spam filtering, optical character recognition, search engine improvement, digital image processing, data mining, etc.

Overall student learnt the basics of working with various machine learning framework. Feedback students was collected and it suggested that they welcomed this initiative and they are motivated to explore more dimension in this platform also they are willing to use this tools in their projects in future.

Glimpses of the Event :



5) Expert talk on “Importance of Programming”

Event Name:	Expert talk on “Importance of Programming”
Date:	10/02/2018
Venue:	B-302, IT Department
Expert Name:	Prof. Priyang Bhatt, GCET engineering college
Duration:	2 Hours
Total Number of Students:	27
Workshop Coordinators:	Prof. Vishal Polara, Prof. NileshPrajapati
Event Convener:	Dr. Keyur Brahmhatt

About Workshop

Information Technology department of BVM Engineering College had organized One day expert talk on “Importance of programming ” for first year students on 10/02/2018 for 2 Hours. There were total 27 Participants, who attended the workshop. The expert was invited from GCET Engineering College. The topics were covered in the expert talk as below:

- Way of writing of simple program
- Common mistakes in programming
- Way to improve programming

The motive of this workshop/event was students can learn Importance of Programming and how to improve programming skill as well as debugging capability to solve the errors.

Glimpses of the Event :



6) Workshop on “Android Development”

Event Name:	Workshop on “Android Development”
Date:	11/02/2018
Venue:	B Block, IT Department, BVM
Resource Person:	Mr. Pancham Khaitan (4 th Year, IT, Tech Lead, DSC)
Duration:	10:00 am to 04:00pm
Number of Students:	31
Event Coordinator:	Prof. Zankhana Shah
Event Convener:	Dr. Keyur Brahmhatt

About Event

Developer Student Club, managed by Google, Birla Vishvakarma Mahavidyalaya chapter organized a workshop on Android Development on Sunday, 11th February, 2018. The workshop was conducted at B-304, IT Department from 10:00 am - 04:00 pm.

The resource person of this workshop was Pancham Khaitan — 4th year IT student, and lead of Developer Student Club, BVM. For assistance, Abhishek Shah (4th year, IT) and Megharth Lakhtariya (3rd year, IT) helped students clear their doubts, in case of any.

28 students of various branches of BVM, 02 students of GCET and 01 student of V P Science attended the workshop. Starting with Java, they built 3 apps on Android. First they made basic hello world app. They developed an app that used the functionality of Intents and Toasts. Later they understood the concept of RecyclerView and implemented it with Shared Preferences to save their data locally. Later, there was a 20-minute discussion round which allowed the participants to brainstorm on new ideas using the concepts they understood that day.

The event ended with a positive response from the students expressing their willingness to attend the next workshop as well, if any.

Glimpses of the Event:



7)Expert Talk on “WORDPRESS”

Event Name:	Expert Talk on “WORDPRESS”
Date:	10/03/2018
Venue:	B-302, B Block, IT Department, BVM
Resource Person:	Mr. Jay Amin TOPS Technology Pvt Ltd, Ahmedabad
Duration:	10:00 am to 12:30 pm
Target Audience:	4 th Semester Students (55 Students)
Event Coordinator:	Prof. Nilesh B. Prajapati
Event Convener:	Dr. Keyur Brahmhatt

About the Expert talk:

Information Technology Department of BVM engineering organized an Expert talk on “WORDPRESS” on 10th March, 2018, Saturday for 2nd Year (4th Semester) students. This expert talk was organized in Information Technology department at B-302 during 10:00 am to 12:30pm. The main agenda of this talk is to enhance the knowledge of students in area of web site development using open source software WORDPRESS.

The expert for this expert talk was Mr. Jay Amin, Technical Expert, TOPS Technology Pvt Ltd., Ahmedabad. He has explored his expertise in website development using open source software among the students. He has also cleared doubts and queries of the students during the sessions. He has also shown the hands-on session to the students which make them more suitable for web site designing using open source technology. Total 55 students of the 2nd year have actively taken part in this expert talk. Students have done fruitful discussion with expert for clearing their doubt and exploring ideas for website development.

Overall the event was successful and student given their positive feedback for this event, also given their readiness for attending this kind of more expert talk and workshop in area of website development.

Glimpses of the Expert talk:



8)Expert Talk on “Awareness of Cyber Security and its tools”

Event Name:	Expert Talk on "Awareness of cyber Security and its tools"
Date:	24/03/2018
Venue:	B-401, B Block, IT Department, BVM
Resource Person:	Mr. Deven Gol Assistant Professor, GCET Engineering Collage
Duration:	09:30 am to 12:00 noon
Target Audience:	2 nd and 4 th Semester Students (38 Students)
Event Coordinator:	Prof. Kanu Patel Prof. Priyank Bhojak
Event Convener:	Dr. Keyur Brahmhatt

About the Expert talk:

Information Technology Department of BVM engineering organized an Expert talk on “Awareness of cyber Security and its tools” on 24th March, 2018, Saturday for 1st year 2ndYear students. This expert talk was organized in Information Technology department at B-401 during 09:30 am to 12:00 noon. The main agenda of this talk is to enhance the knowledge of students in area of cyber security and information about different cyber security tools.

The expert for this expert talk was Mr. Deven Gol, Assistant Professor GCET Engineering Collage. He has explored his expertise in Information Security and cyber security among the students. Total 38 students of the 1st and 2nd year have actively taken part in this expert talk.

Overall the event was successful and student given their positive feedback for this event, also given their readiness for attending this kind of more expert talk and workshop in area of cyber security.

Glimpses of the Expert talk:



9) “PROJECT EXPO-2018”

Event Name:	“PROJECT EXPO-2018”
Date:	20/04/2018
Venue:	IT Department, BVM
Resource Person:	Mr. Sagar Sheth (Streebo Academy) Mr. Sagar Shah (IndusFace Pvt.Ltd)
Target Audience:	4 th Year Students
Event Coordinator:	Dr.Keyur Brahmbhatt Prof. Chintan Mahant
Event Convener:	Dr. Keyur Brahmbhatt

About the Event:

The Project Expo-2018 event organized by the department of Information Technology of BVM engineering college on 20th April 2018 at BVM Engineering College. Dr. Keyur Brahmbhatt and Prof.Chintan Mahant were coordinators of the event. The expert from the various industries judge the event and based on that best 3 posters were selected out of total 18 posters (06 IDP +12 UDP = Total 63 Students).

Following students were awarded for prizes and certificates in the Project Expo-2018 event which was conducted on 20th April 2018 at IT department of BVM Engineering College, V. V. Nagar.

Dept	Total No. of IDP/UDP groups	No.of Project	Experts from Industry	Winner Details	Dept	Total No. of IDP/UDP groups	No.of Project
IT	UDP: 12	IDP: 06	18	Mr. SagarSheth (Streebo Academy)	1 st	“Driving Simulation for RTO testing”	Abhishek Shah (140080116001) Aseem Thakkar (140080116006) GhanshyamSavaliya (140080116052) Jay Patel (140080116031)
				Mr. Sagar Shah(IndusFacePvt .Ltd)	2 nd	IoT Secured, Managed Society	Brijesh Patel (140080116028) AkshayAghera (140080116003) Prem Patel (140080116038) Maulik Patel (140083116009)
				Mr. Sagar Shah(IndusFacePvt .Ltd)	3 rd	“MASON”	Tusharonawala (140080116059) Rahul Pipaliya (140080116044) Rudra Patel (140080116050) Rushang Patel (140080116064)

Glimpses of the Event:





10) Industrial Visit at “Aimtron”, Vadodara

Event Name:	Industrial visit at Aimtron
Date:	21/04/2018
Venue:	Vadodara
Resource Person:	Mr. Prasant
No of Students:	34
Event Coordinator:	Prof. Bijal Dalwadi Prof. Vatsal Shah Prof. Vishal Polara
Event Convener:	Dr. Keyur Brahmhatt

About Industrial visit

A team of IT department inclusion of Prof. Bijal Dalwadi, Prof. Vatsal Shah ,Prof. Vishal Polara along with 3rd year IT students had visited Aimtron company at 10:30 am. They had given warm welcome to us and given presentation about their company’s manufactures. Aimtron’s India-based manufacturing facility is located in the city of Vadodara, Gujarat and also has partnerships with PCB suppliers in Shenzhen, China. Aimtron company manufactures PCB as per their Client's request. They had us visited the plant of PCB’s manufacturing. After that we had visited plant of assembling components into the PCB.

Glimpses of the Industrial visit:



11) Expert Talk on “Web Development Using PHP”

Event Name: Expert talk on “Web Development Using PHP”

Date: 21/04/2018

Venue: IT Department, BVM

Resource Person: Prof. Nilay Ganatra
CHARUSAT University, Changa

No of Students: 38

Event Coordinator: Dr.Keyur Brahmbhatt
Prof. Chintan Mahant

Event Convener: Dr. Keyur Brahmbhatt

About the Expert talk:

Information Technology Department of BVM engineering college organized Expert Talk on “Web Development Using PHP” on 21st April 2018 at BVM Engineering College. Dr. Keyur Brahmbhatt and Prof.Chintan Mahant were coordinators of the event. The expert Prof.Nilay Ganatra from CHARUSAT University, Changa was conducted the session. Total 38 students were participated in this workshop.

The motive of this workshop was students can design and implement a client-server internet application that accommodates specific requirements and constraints, based on analysis, modeling or requirements specification.

Glimpses of the Expert talk:





Report Created By

**Prof. Priyank Bhojak
Assistant Professor**

Guided By:

**Dr. Keyur Brahmbhatt
(Head, IT department)**

Information Technology Department

Birla Vishvakarma Mahavidyalaya (BVM)

Engineering College

(An Autonomous Institution)

*****_***_*****



Birla Vishvakarma Mahavidyalaya (BVM)

Engineering College

(An Autonomous Institution)

Information Technology Department

Student Activity Details

Academic Year 2018-19

(Semester-I)

Student Activities for the academic year 2018-19

(Semester-I)

Sr.	Title of the Activity (Expert talk / Workshop / Industry Visit)	Convener	Coordinators	Date/Duration	Resource Person/Industry
1	Hands on "Unity" - An open source software for graphics applications	Dr.Keyur Brahmbhatt	Prof. Zankhana Shah	28 th July, 2018	Mr. Rahul Mehta, Mr. Raj Kadhi (4th Year IT Students)
2	Introduction to Microsoft Azure and Amazon RDS	Dr.Keyur Brahmbhatt	Prof. BIjal Dalwadi, Prof. Vatsal Shah	28 th July, 2018	Prof. Nirav Bhatt, Assistant Professor, CHARUSAT
3	Scope and need of Cyber Security	Dr.Keyur Brahmbhatt	Prof. Vishal Polara, Prof. Krupali Shah	21 th July, 2018	Mr. Jenil Desai (Alumni) IT manager , Axis Bank
4	Importance of Aptitude Preparation and the Donald Trump Effect	Dr.Keyur Brahmbhatt	Dr. Keyur Brahmbhatt, Prof.Chintan Mahant	7 th Sept,2018	Mr.Jaydev Jivani, Endeavor careers pvt. ltd
5	Expert Talk on “Android Programming”	Dr.Keyur Brahmbhatt	Prof. Vikram Agrawal, Prof. Priyank Bhojak	8 th Sep, 2018	Mr. Shreyansh Bhavsar, L&OD Specialist, Rishabh Software.
6	Expert Talk on “Importance of Programming”	Dr.Keyur Brahmbhatt	Dr. Keyur Brahmbhatt, Prof.Kanu Patel	8 th Sep, 2018	Prof. Priyang Bhatt Assistant Professor, GCET, V V Nagar.
7	Expert Talk on “Word Press”	Dr.Keyur Brahmbhatt	Prof. Nilesh Prajapati	8 th Sep, 2018	Prof. Nayan Mali, Assistant Professor, ADIT , New V V Nagar.

1) Expert talk with hands on session on “UNITY”

Event Name:	Expert talk with hands on session on “UNITY”
Date:	28 th July, 2018
Venue:	B Block, IT Department, BVM
Resource Person:	Mr. Rahul Mehta, Mr. Raj Kadhi (4th Year IT students)
Duration:	9:00 am to 11:00 am
Total Number of Participants:	35
Event Coordinator:	Prof. Zankhana Shah

About Expert talk:

As a part of Peer-to-Peer Learning activity, Information Technology Department had organized an expert talk with hands on session on “UNITY” on 27th July, 2018 at B302, B Block. 35 students of 3rd year IT actively participated in the session. The session was conducted by Mr. Rahul Mehta and Mr. Raj Kadhi, 4th year IT students and coordinated by Prof. Zankhana Shah.

It was explained to participants how Vuforia Software Development Kit (SDK) is used for augmented reality which enable Computer Vision technology to recognize and track planar images (Image Targets) and simple 3D objects, such as boxes, in real-time.

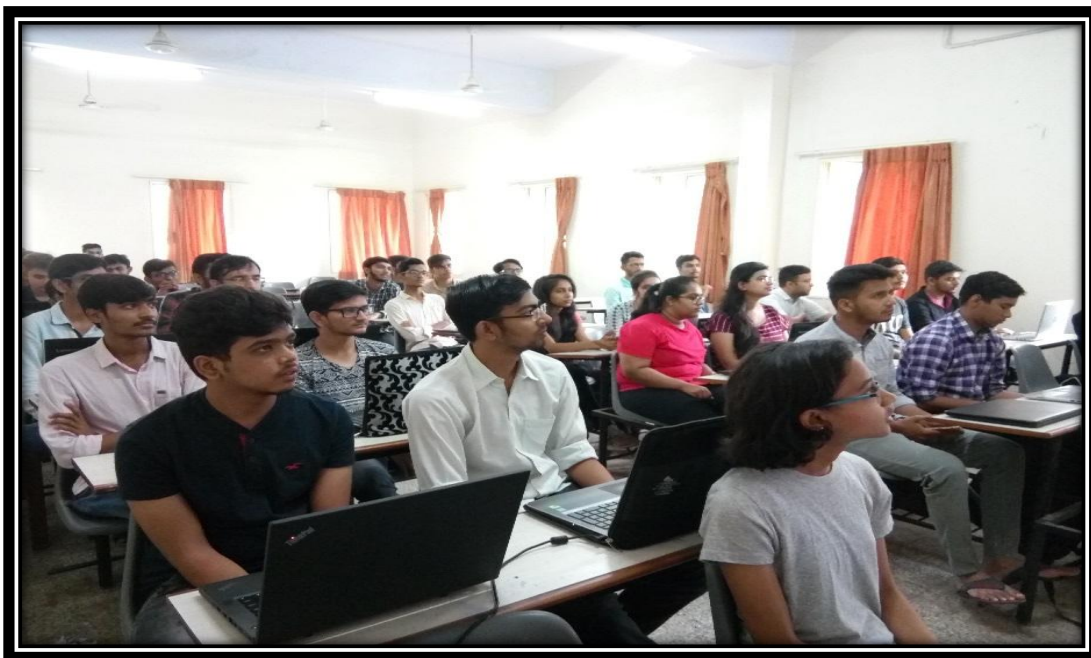
Following concepts were covered in the session: -

- Introduction to Augmented Reality and its advantages.
- Augmented Reality (AR) vs Virtual Reality (VR).
- How to install Unity software and explain its features.
- How to get Vuforia SDK and get developer key.
- The real-time android application that is used to scan a physical 3D object and augment it with a 3D virtual object.

Outcome:

- The session ended with an enthusiastic note on exploring open source software and platforms for developing user friendly graphics applications.
- Students learned how to create animation using graphics concepts.
- Students learned to develop graphics application using concepts of 2D and 3D.

Glimpses of the Event:



2) Expert talk on “Introduction to Microsoft Azure & Amazon RDS”

Event Name:	Expert talk on “Introduction to Microsoft Azure & Amazon RDS”
Date:	28/07/2018
Venue:	B-302 , IT Department
Expert Name:	Prof. Nirav Bhatt, Charusat, Changa
Duration:	2 Hours
Total Number of Students:	22
Workshop Coordinators:	Prof. Bijal Dalwadi, Prof. Vatsal Shah

About Expert talk

Information Technology department of BVM Engineering College had organized One day expert talk on “Introduction to Microsoft Azure & Amazon RDS” for second year students on 28/07/2018 for 2 Hours. There were total 22 Participants, who attended the expert talk. The main agenda of this talk is to enhance the knowledge of students in area of cloud services provided by Microsoft azure and scale a relational database in the cloud.

Expert talk was conducted by expert Prof. Nirav Bhatt, Assistant Professor at Information Technology Department, Charusat. He has explored his expertise in Microsoft azure and Amazon rds among the students.

Overall the event was successful and student given their positive feedback for this event, also given their readiness for attending this kind of more expert talk.

Glimpses of the Event :



3) Workshop on “Scope and need of Cyber Security”

Event Name:	Workshop on “Scope and need of Cyber Security”
Date:	21/07/2018
Venue:	B-304, IT Department
Expert Name:	Mr. Jenil Gohil, IT Manager Axis Bank, Mumbai Head Branch
Duration:	2 Hours
Total Number of Students:	28
Event Coordinators:	Prof. Krupali Shah, Prof. Vishal Polara

About Workshop

Information Technology department of BVM Engineering College had organized One day workshop on “Scope and need of Cyber Security” for third year students on 21/07/2018 for 2 Hours. The entire motivational talk was about “What to do during B.Tech and then what to do after B.Tech”. During this lecture students learned many things about the emerging Information Technology field. The emerging IT field is the Cyber Security. In the Cyber Security what type of the possible things and what to learn in this field was taught. There were total 28 Participants, who attended the expert talk.

In brief he told that “take a decision for what to do after B.Tech at this time and start the preparation in that way”. After lecture completed the Q&A session was there about the talk.

Glimpses of the Event:



4) Importance of Aptitude Preparation and the Donald Trump Effect

Event Name:	Importance of Aptitude Preparation and the Donald Trump Effect
Date:	07/09/2018
Expert Name:	Mr.Jaydev Jaswani, Endeavor Carrier Pvt Ltd, Vallabh Vidhyanagar
Duration:	1 Hour
Total Number of Students:	56
Event Coordinators:	Dr.Keyur Brahmhatt Prof.Chintan Mahant

About Workshop

Information Technology Department of BVM engineering college organized Expert Talk on “Importance of Aptitude Preparation and the Donald Trump Effect” on 7th September 2018 for 3rd year IT students. Dr.Keyur Brahmhatt and Prof.Chintan Mahant were coordinators of this event. The expert Mr.Jaydev Jaswani, Endeavor Carrier Pvt Ltd, Vallabh Vidhyanagar was conducted the session. Total 56 students were participated in this Expert Talk. The expert Mr.Jaydev Jaswani explained how to do preparation for aptitude. The most interactive topic was the Donald Trump effect. Students got knowledge of how actual recruitment happens in the different MNC companies via Donald Trump effect.

Glimpses of the Event:



5) Expert Talk on “Android Programming”

Event Name:	Expert Talk on “Android Programming”
Date:	08/09/2018
Venue:	B-309, IT Department
Expert Name:	Mr. Shreyansh Bhavsar, L&OD Specialist, Rishabh Software.
Duration:	2 Hours
Total Number of Students:	37
Event Coordinators:	Prof. Vikram Agrawal, Prof. Priyank Bhojak

About Workshop

Information Technology department of BVM Engineering College had organized One day expert talk on “Android Programming” for 3rd year students on 08/09/2018 for 2 Hours. There were total 37 Participants, who attended the expert talk. The expert was invited from Rishabh Software , Baroda. The topics were covered in the expert talk as below:

- Introduction to Android Architecture.
- Importance of Android technology.
- Introduction to Android ecosystem, tools and environment, android core components, Activity lifecycle using recycler view.

The motive of this workshop/event was students can understand Android Architecture and develop simple Android Application.

Glimpses of the Event:



6) Expert Talk on “Importance of Programming”

Event Name:	Expert Talk on “Importance of Programming”
Date:	08/09/2018
Venue:	B-302, IT Department
Expert Name:	Prof. Priyang Bhatt, GCET engineering college
Duration:	2 Hours
Total Number of Students:	63
Event Coordinators:	Dr. Keyur Brahmhatt Prof. Kanu Patel,

About Workshop

Information Technology department of BVM Engineering College had organized One day expert talk on “Importance of programming ” for first year students on 08/09/2018 for 2 Hours. There were total 63 Participants, who attended the expert talk. The expert was invited from GCET Engineering College. The topics were covered in the expert talk as below:

- ✓ Way of writing of simple program
- ✓ Common mistakes in programming
- ✓ Way to improve programming

The motive of this workshop/event was students can learn Importance of Programming and how to improve programming skill as well as debugging capability to solve the errors.

Glimpses of the Event:



7) Expert Talk on “WORDPRESS”

Event Name:	Expert Talk on “WordPress”
Date:	08/09/2018
Venue:	B-302, IT Department
Expert Name:	Prof. Nayan Mali, Assistant Professor,ADIT
Duration:	2 Hours
Total Number of Students:	52
Event Coordinators:	Prof. Nilesh Prajapati, Prof. Krupali Shah

About Expert Talk

Information Technology Department Of BVM Engineering College Had Organized One Day Expert Talk On “Wordpress” For Second Year Students On 08/09/2018 For 2 Hours. There Were Total 52 Participants, Who Attended The Expert Talk

Wordpress Is An Online, Open Source Website Creation Tool Written In PHP. But In Non-Geek Speak; It’s Probably The Easiest And Most Powerful Blogging And Website Content Management System (Or CMS) In Existence Today.

Following contents were covered:

Wordpress login, exploring the wordpress dashboard, using the wordpress admin bar, exploring wordpress settings, wordpress posts vs. Pages, creating a wordpress post, adding links in wordpress, adding images in wordpress, using the wordpress media library, formatting wordpress posts, scheduling wordpress posts, wordpress categories & tags, creating a wordpress page, applying a wordpress page template, wordpress plugins,installing wordpress pluginswordpress theme, using wordpress widgets, how to install a wordpress theme, creating a custom menu in wordpress, managing comments in wordpress.

Glimpses of the Event:





Report Created By

**Prof. Priyank Bhojak
Assistant Professor**

Guided By:

**Dr. Keyur Brahmhatt
(Head, IT department)**

Information Technology Department

Birla Vishvakarma Mahavidyalaya (BVM)

Engineering College

(An Autonomous Institution)

*****_***_*****



**BIRLA VISHVAKARMA MAHAVIDYALAYA
ENGINEERING COLLEGE**



DEPARTMENT ACTIVITY REPORT

INFORMATION TECHNOLOGY DEPARTMENT

Academic Year 2018-19 (Semester-II)

Student Activities for the academic year 2018-19

(Semester-II)

Sr.	Title of the Activity (Expert talk / Workshop / Industry Visit)	Convener	Coordinators	Date	Resource Person/Industry
1	Expert talk on “AngularJS”	Dr.Keyur Brahmbhatt	Prof. Vishal A. Polara Dr Nilesh B. Prajapati	05-01-2019	Prof. Nayan Mali ADIT
2	Expert talk on “Software Testing”	Dr.Keyur Brahmbhatt	Dr. Z, H. Shah Prof.Chintan Mahant	24-01-2019	Ms. Sapna Kothare, TCS
3	Hands on Practices in Arduino Board	Dr.Keyur Brahmbhatt	Prof. Vatsal Shah Prof. Kanu Patel	09-02-2019	Prof. Dhaval Tailor , ADIT
4	Expert talk on “Software Testing & Quality Assurance”	Dr.Keyur Brahmbhatt	Dr. Z, H. Shah Prof. Chintan Mahant	16-02-2019	Mr. Maulik Shah, Technical Lead, E- infochip
5	Expert talk on “Cloud computing using AWS”	Dr.Keyur Brahmbhatt	Prof. Bijal Dalwadi Prof. Priyank Bhojak	16-02-2019	Prof. Sandip Patel, Charusat
6	Expert talk on “Scope and Opportunities at IT industries”	Dr.Keyur Brahmbhatt	Dr. Z, H. Shah Prof. Chintan Mahant	20-02-2019	Mr. Neel Raval, Cloud Consultant, Ericsson, USA
7	Expert talk on “Importance of Programming”	Dr.Keyur Brahmbhatt	Dr. Keyur Brahmbhatt Prof. Vishal A. Polara	22-02-2019	Prof. Priyank Bhatt, GCET
8	Expert talk on “Data science and its applications”	Dr.Keyur Brahmbhatt	Prof. Vikram Agrawal Prof. Prachi Shah	23-02-2019	Prof. Vinita Shah, GCET
9	Industrial visit TOPS Technologies and ISRO	Dr.Keyur Brahmbhatt	Dr. N. B. Prajapati Prof. B. N. Dalwadi Prof. V. A. Polara	01-03-2019	TOPS Technologies and ISRO
10	Industrial visit RTTC, BSNL Ahmedabad	Dr.Keyur Brahmbhatt	Prof. Kanu Patel Prof. Priyank Bhojak Prof. Prachi Shah	08-03-2019	RTTC, BSNL
11	Expert Talk on “Agile Software Development”	Dr.Keyur Brahmbhatt	Dr. Z, H. Shah Prof. Chintan Mahant	07/03/2019	Mr.Gaurav Ghilani TCS,Mumbai
12	Expert talk on “PHP for Beginner”	Dr.Keyur Brahmbhatt	Dr. Keyur Brahmbhatt Dr. N. B. Prajapati,	09-03-2019	Prof. Nayan Mali ADIT

1.)Expert talk on “AngularJS”

Event Name:	Expert talk on “AngularJS”
Date:	5 th January 2019
Venue:	B Block, IT Department, BVM
Resource Person:	Mr. Nayan Mali, Assistant Professor, ADIT College V.U.Nagar
Duration:	10:30 AM to 12:30 PM
Total Number of Participants:	44
Convener:	Dr.Keyur Brahmhatt
Coordinators:	Prof. Vishal A. Polara Dr Nilesh B. Prajapati

About Expert talk:

On date 5th January, 2019, IT department of BVM had organized an expert talk on "AngularJS". The talk was conducted by one of the experts Mr Nayan Mali, Assistant Professor at IT Department; ADIT College. Around 44 students from 2nd level IT branch took part in this event. Main focus of the expert talk was on to about basics of AngularJS and its current applications. Duration of talk is 2hrs starting from 10:30AM to 12:30 PM. Sir had discussed about the current scenario of what is needed in the field of IT, how to use benefit from the technologies currently in use.

Outcome:

With AngularJS, Students can use HTML as the template language and it allows for the extension of HTML’s syntax to convey the application’s components effortlessly. Angular makes much of the code otherwise students would have to write completely redundant.

Glimpses of the Event:



2.)Expert talk on “Software Testing”

Event Name:	Expert Talk on “Software Testing”
Date:	24/01/2019
Venue:	LRUC Hall
Expert Name:	Ms.Sapana Kothari (TCS,Mumbai)
Duration:	10:00 am to 12:00 noon
Total Number of Students:	68
Convener:	Dr.Keyur Brahmbhatt
Coordinators:	Dr.Zankhana Shah Prof.Chintan Mahant

About Expert Talk

Information Technology department of BVM Engineering College had organized One day expert talk on “Software Testing” for 2ndyear IT/CP students on 24/01/2019 for 2Hours. There were total 68Participants, who attended the expert talk. The expert was invited from TCS, Mumbai.

The topics were covered in the expert talk as below:

Types of Different Testing Techniques:

This topic is relevant to the subject Software Engineering. The topic explores the various types of software testing techniques available for testing the software after completion.

Expert also explained the working of white box and black box testing in detail.She also explains different testing tools are used in different companies for testing the software.

Glimpses of the Event:



3.)Hands on Practices in “Arduino Board”

Event Name:	Hands on Practices in “Arduino Board “
Date:	9 th February 2019
Venue:	B401, B-Block BVM Engineering College
Expert Name:	Prof. Dhaval Tailor Asst. Prof., EE Dept., ADIT
Time:	9:00 am to 3:00 pm
Total Number of Students:	24
Convener:	Dr.Keyur Brahmbhatt
Coordinators:	Prof. Vatsal Shah Prof. Kanu G Patel

About Expert talk

On date 9th February, 2019 IT department of BVM organized one day workshop on "Hands on Practices in Arduino Board". Workshop was conducted by two experts Dhaval Tailor, Assistant Professor at Electrical Department; ADIT College. Around 24 students from 3rd level IT branch took part in this workshop. Main focus of the workshop was to do hands on practical with Arduino uno board. Arduino is an open source development board used by developers and hobbyist for creating projects and prototypes. Arduino has vast collection of supporting libraries developed by open source users across the world. Learning this platform might help students in rapid prototype development their project. Keeping these facts in mind content of workshop was designed and delivered.

Glimpses of the Event :



4.)Expert talk on “Software Testing & Quality Assurance ”

Event Name:	Expert Talk on “Software Testing & Quality Assurance”
Date:	16/02/2019
Venue:	B305, IT department
Expert Name:	Mr.Maulik Shah (Technical Lead, e-Infochip,Ahmedabad)
Duration:	10:00 am to 12:00 noon
Total Number of Students:	44
Convener:	Dr.Keyur Brahmbhatt
Coordinators:	Prof.Chintan Mahant Dr.Zankhana Shah

About Expert talk

Information Technology department of BVM Engineering College had organized One day expert talk on “Software Testing” for 3rdyear students under the banner of ISTE student chapter on 16/02/2019 for 2Hours. There were total 44Participants, who attended the expert talk. The expert was invited from e-Infochip, Ahmedabad. The topics were covered in the expert talk as below:

Software testing and quality assurance

This topic is relevant to the 6th semester subject of Software Engineering for IT students. The topic explores the various terminologies, workflows and implementation patterns of various software testing methodology and quality assurance cycle which has great significance in any IT industry

The motive of this event was students can learn the knowledge to move forward in the field of software testing and QA.

Glimpses of the Event :



5.)Expert talk on “Cloud computing using AWS”

Event Name:	Expert Talk on “Cloud computing using AWS”
Date:	16/02/2019
Venue:	Lab 4, B-Block
Expert Name:	Prof. Sandip Patel, Charusat
Duration:	10:00 am to 1:00 pm
Total Number of Students:	39
Convener:	Dr.Keyur Brahmhatt
Coordinators:	Prof. Bijal Dalwadi, Prof. Priyank Bhojak

Overview of Topic

Cloud computing is the on-demand delivery of compute power, database storage, applications, and other IT resources through a cloud services platform via the Internet with pay-as-you-go pricing. Cloud computing provides a simple way to access servers, storage, databases and a broad set of application services over the Internet.

About Expert talk

Information Technology department of BVM Engineering College had organized One day Expert talk on “Cloud computing using AWS” for 2ndyear students on 16th February,2019 for 03Hours. There were total 39Participants, who attended the Expert talk. The expert was invited from Charusat, changa.

The topics were covered in the Expert talk as below:

- AWS rekognition
- EC2, S3, IAM
- How to create virtual machine on AWS
- Static web hosting

The motive of this expert talk was students can learn Cloud Computing skills with AWS, how to set up things to work in an environment with multiple possibilities at a single stop.

Glimpses of the Event :



6.)Expert Talk on “Role of IT Engineer in Industry”

Event Name:	Expert Talk on “Role of IT Engineer in Industry”
Date:	20/02/2019
Venue:	B305,IT department
Expert Name:	Mr.Neel Raval (Cloud Consultant at Ericsson, USA)
Duration:	9:30am am to 10:30 am
Total Number of Students:	17
Convener:	Dr.Keyur Brahmbhatt
Coordinators:	Dr.Zankhana Shah, Prof.Chintan Mahant

About Expert Talk

Information Technology department of BVM Engineering College had organized One day expert talk on “Role of IT Engineer in Industry” for 2nd , 3rd and 4th year students on 20/02/2019 for 1 Hour. There were total 17 Participants, who attended the expert talk. The expert is our alumni of IT department and currently he is working with Ericsson, USA. This expert talk was coordinated by Dr.Zankhana Shah and Prof.Chintan M Mahant. The topics were covered in the expert talk as below:

Role of IT Engineer in Industry

In this topic the expert mainly cover how IT engineer can choose the different field after completion of their graduation. He mentioned the different roles like system analyst, developer, QA analyst with their responsibilities to the company. He also discussed his roles and responsibilities towards his company. At the end he motivated the students to opt jobs in IT industries.

Glimpses of the Event :



7.) Expert talk on “Importance of Programming”

Event Name:	Expert talk on “Importance of Programming”
Date:	22th February, 2019
Venue:	B302, B-Block BVM Engineering College
Expert Name:	Prof. Priyang Bhatt, Assistant Professor, GCET College V. V. Nagar
Duration:	9:15 AM to 10:30 AM
Total Number of Students:	38
Convener:	Dr.Keyur Brahmbhatt
Coordinators:	Dr. Keyur Brahmbhatt Prof. Vishal A. Polara

About Expert talk

On date 22th February, 2019, IT department of BVM had organized an expert talk on "Importance of Programming". The talk was conducted by one of the experts Prof. Priyang Bhatt, from GCET College. Around 38 students from 1st level IT branch took part in this event. Main focus of the expert talk was on to about basics of Programming and its current applications. Duration of talk is 1hrs starting from 9:15AM to 10:30 AM. Sir had discussed about the current scenario of what is needed in the field of IT, how to use it for benefit of creating solutions.

Glimpses of the Event :



8.)Expert talk on “Data science and its applications”

Event Name:	Expert talk on “Data science and its applications”
Date:	23 rd February, 2019
Venue:	B-401, B Block, IT department, BVM
Expert Name:	Prof. Vinita Shah, GCET Engineering College
Duration:	10:30 am to 12:30 pm
Total Number of Students:	30
Convener:	Dr.Keyur Brahmhatt
Coordinators:	Prof. Vikram Agrawal Prof. Prachi Shah

Overview of Topic

Data science helps to go at a granular level to mine and understand complex behaviors, trends and inferences. It helps surfacing hidden insight that can help enable companies to make smarter business decisions which in turn makes students skilful enough for employability.

About Expert talk

Information Technology department of BVM Engineering College had organized one day expert talk on “Data science and its applications” for 2ndyear IT students on 23rd February, 2019 for 2Hours. There were total 30Participants, who attended the expert talk. The expert was invited from GCET Engineering College, V.V.Nagar. The topics that were covered in the expert talk are as below:

- Introduction to Data Science.
- Problems solving using data science techniques like data mining and machine learning.
- Life cycle of data science.
- Tools (languages) used for data science.
- Demonstration of Some python libraries like data visualization, face detection, eye detection.

The motive of this expert talk was that the students can understand the concepts related to the field of Data Science and know about its various applications.

Glimpses of the Event :



9.) Industrial visit TOPS Technologies and ISRO

Starting Date & Time:	01 st March, 19 - 8:30AM
Pickup point:	BVM engineering college, V.V.Nagar
Venue & Place of Company:	TOPS Technologies pvt ltd., Ahmedabad, Indian Space Research Centre (ISRO)
Duration:	1 Day
Convener:	Dr.Keyur Brahmhatt
Coordinators:	Dr. Nilesh Prajapati Prof. Vishal Polara Prof. Bijal Dalwadi
Total Number of Students:	40 (8 girls + 32 boys)

About Visit:

Our tour started with a lot of excitement & enthusiasm. The technical visit to TOPS, Indian Space Research Centre (ISRO), Science city, Ahmedabad was organised on 1st March 2019. We started our journey from college at 08:30 am. There were 40 students (Second year IT) and 3 faculties (Dr. Nilesh Prajapati, Prof. Vishal Polara, Prof.Bijal Dalwadi) in total. The bus was provided by BVM. Around 10:30 am, we reached TOPS Technologies, Ahmedabad.

After reaching we were briefed about the company and how the IT industry works currently. Later we were taken for a visit to the workspace where its employees were where working and also we got a chance to interact with them as how everything works, which software they use, which are the departments and their job profiles.

Later on, we went to another centre of TOPS for an expert lecture on game development on unity; where we were shown how games are developed in unity have to use the layer and the packages provided there. Later, We went further went to science city for our lunch. After which we visited the “Beyond the Earth” named exhibition.

Glimpses of the Event :



Birla Vishvakarma Mahavidyalaya Engineering College
(An Autonomous Institution)



10.) Industrial Visit at “Regional Telecom Training Centre (RTTC – BSNL), Ahmedabad”

Event Name:	Industrial Visit at Regional Telecom Training Centre (RTTC – BSNL), Ahmedabad
Starting Date & Time:	08 th March, 2019 - 8:30AM
Pickup point:	BVM engineering college, V.V. Nagar
Venue & Place of Company:	RTTC (BSNL), Ahmedabad
Duration:	1 Day
Convener:	Dr.Keyur Brahmhatt
Coordinators:	Prof.Kanu Patel Prof.Priyank Bhojak Prof.Prachi Shah
Total Number of Students:	31 (12 girls + 19 boys)

About Visit

Our tour started with a lot of excitement & enthusiasm. The technical visit to RTTC (BSNL), Ahmedabad was organized on 8th March, 2019. We started our journey from college at 08:30 am. There were 31 students (Third year IT) and 3 faculties (Prof.Kanu Patel, Prof.Priyank Bhojak, Prof. Prachi Shah) in total. The bus was provided by BVM. Around 10:30 am, we reached RTTC (BSNL), Ahmedabad.

After reaching RTTC, we were briefed about the centre, how they work currently and about the upcoming projects of BSNL. Also, we inquired about the training provided by them to students of engineering college.

Later the students were taken for a visit to the workspace where its employees were working. They explained that how different laboratories are setup and how everything works, which software they use, which are the departments and their job profiles.

Birla Vishvakarma Mahavidyalaya Engineering College
(An Autonomous Institution)

Glimpses of the Event :



11.) Expert Talk on “Agile Software Development”

Event Name:	Expert Talk on “Agile Software Development”
Date:	07/03/2019
Venue:	B304, IT department
Expert Name:	Mr.Gaurav Ghilani (TCS,Mumbai)
Duration:	10:00 am to 12:00 noon
Total Number of Students:	62
Convener:	Dr.Keyur Brahmhatt
Coordinators:	Dr.Zankhana Shah Prof.Chintan Mahant

About Expert Talk

Information Technology department of BVM Engineering College had organized One day expert talk on “Agile Software Development” for 3rd and 4th year (TCS placed) students on 07/03/2019 for 2 hours. There were total 62 participants, who attended the expert talk. The expert was invited from TCS, Mumbai. The topics were covered in the expert talk as below:

Type of Agile software:

This topic is relevant to the 6th semester subject of Software Engineering for IT students. The topic explores the various types of agile software available for rapid software development. Types of Agile development like ADP, DSD, Crystal, Scrum etc. He also discussed how agility is applied to software development in today's scenarios.

Detail explanation of Scrum:

He explained Scrum which is a very important technique for agile software development. In Scrum every project team meets every day for 15 minutes to discuss the next action plan of the project and what you have done after the last meeting.

The motive of this event was that students can learn the knowledge to move forward in the field of Software Analyst and software development.

Glimpses of the Event:



12.) Expert talk on “PHP for Beginners”

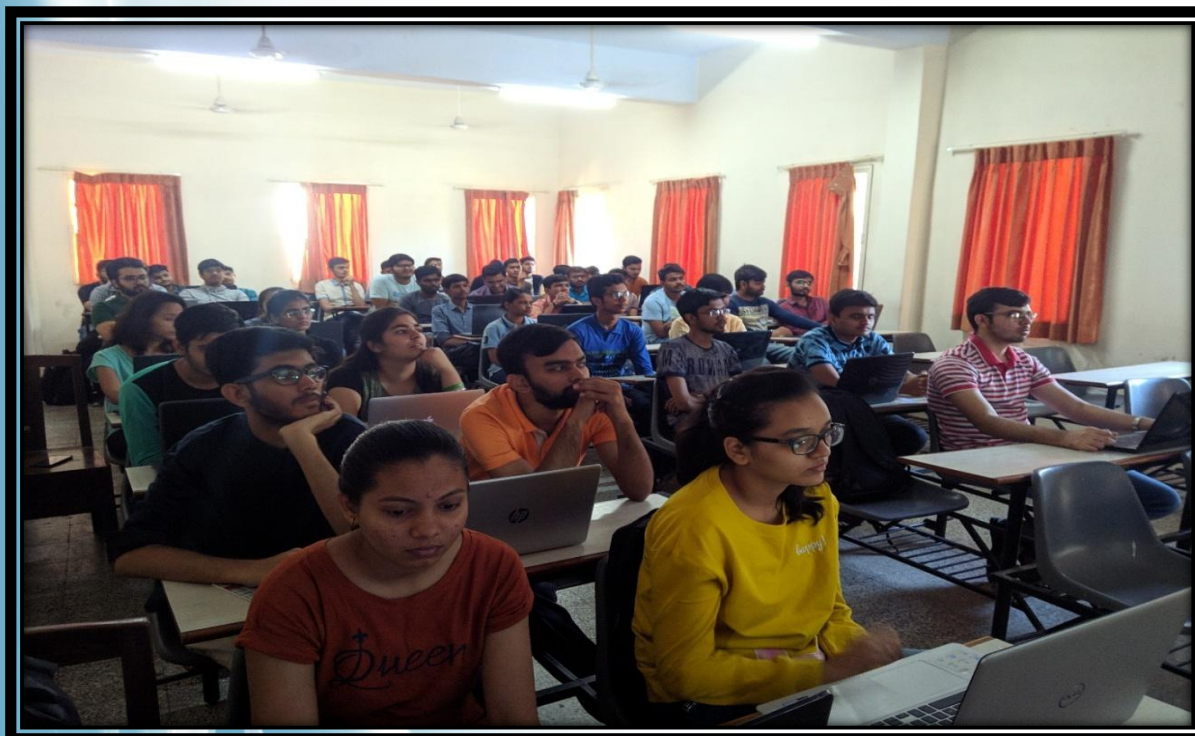
Event Name:	Expert talk on “PHP for Beginners”
Date:	09 th March, 2019
Venue:	B -302, B-Block BVM Engineering College.
Expert Name:	Prof. Nayankumar Mali, Assistant Professor, ADIT Engineering College
Duration:	10:00 am to 1:30 pm
Total Number of Students:	44 Students (2 nd year IT)
Convener:	Dr.Keyur Brahmbhatt
Coordinators:	Dr.Keyur Brahmbhatt Dr. N. B. Prajapati

About Expert Talk

Information Technology department of BVM Engineering College had organized One day expert talk on “PHP for Beginner” for 2ndyear students on 09/03/2019 during 10:00 am to 1:30pm. There were total 44Participants, who attended the expert talk. The expert was invited from ADIT engineering college, New V. V. Nagar. Main focus of the hands-on session was introduction to PHP and a hands-on session on it. Duration of the event was of 3:30hrs starting from 10:00AM to 1:30PM. In the event expert has given knowledge on the basics PHP and how touse it.

The motive of this event was students can learn basics of developing interactive websites.PHP are a scripting language generally used to make websites. PHP is mainly used for design server-side applications. Actually, PHP is a server-side scripting language which is used for connect Web Page with a Database such as asp or jsp.Skills related to the field of Web Development were developed in the seminar, It was all about php, its basics, its syntax, and how to implement it in our project.

Glimpses of the Event:



BVM એન્જિનિયરીંગ કોલેજમાં 60 તજજ્ઞોએ 167 ઉપરાંત અધ્યાપકોને તાલીમ આપી

ટેક્સવીપ શી અને ગુજરાત અંતર્ગત જુદા-જુદા ચાર વિષય પર શોર્ટ ટર્મ ટ્રેનિંગ પ્રોગ્રામ

નવગુજરાત સમય > આહંદ

વલ્લભ વિદ્યાનગર સ્થિત ચાર્ટર્ડ વિદ્યામંડળ સંચાલિત બીવીએમ એન્જિનિયરીંગ કોલેજમાં ટેક્સવીપ શી અને ગુજરાત અંતર્ગત પાયથાન એન્ડ ઈટ્સ એપ્લિકેશન, એડવાન્સ ઈન રિન્યુએબલ એનર્જી સોર્સિસ, રિસેન્ટ એડવાન્સ ઈન સ્ટ્રક્ચરલ એન્ડ જ્યોમેટ્રીકલ એન્જિનિયરીંગ તથા રિસેન્ટ ટ્રેન્ડ ઈન આઈટી, મશીન લર્નિંગ, બિગ ડેટા એન્ડ આઈઓટીએમ એમ ચાર અલગ અલગ વિષય પર શોર્ટ ટર્મ ટ્રેનિંગ પ્રોગ્રામનું આયોજન કરવામાં આવ્યું હતું. જેમાં અઈએસઈ, એનઆઈટી અને ઉદ્યોગોમાંથી 60 તજજ્ઞ દ્વારા 167 ઉપરાંત અધ્યાપકોને તાલીમ પૂરી પાડવામાં આવી હતી.



કોમ્યુનિટીમાં તથા લીડરશીપ વિશે જણાવ્યું હતું. તેમજ ભવિષ્યમાં સોફ્ટવેરના વિષય પર ટ્રેનિંગ પ્રોગ્રામનું આયોજન કરવા સૂચન કર્યું હતું. બીવીએમ કોલેજના પ્રિન્સિપાલ ડો.ઈન્દ્રજીત પટેલે સીવીએમના

સ્થાપનાકાળથી શિક્ષણના અત્યાધુનિકરણ માટે સરદાર પટેલથી લઈને વર્તમાન અખંધ ભીખુભાઈ પટેલના યોગદાન વિશે જણાવ્યું હતું. બીવીએમને ટેક્સવીપ શીના સહાયકોને પસંદગી પામવા બદલ ટેક્સવીપ શી કમિટીનો આભાર માન્યો હતો. ડો.એસ.ડી.ધોમીને ટેક્સવીપ શી અંતર્ગત થતી પ્રવૃત્તિ વિશે જણાવ્યું હતું. ડો.એ.કે.વર્મા, પ્રો.બી.એસ.પટેલ, ડો.યુ.કે.જાલિયા, ડો.એમ.ના શાહ શોર્ટ ટર્મ ટ્રેનિંગ પ્રોગ્રામ વિશે માહિતી આપી હતી.

આ પ્રસંગે પાટલ યુનિવર્સિટીના પ્રોવોસ્ટ ડો.એમ. એન.પટેલ, કમ્યુટર એન્જિનિયરીંગના હેડ ડો.દરેક શાકોર, મિકેનિકલ એન્જિનિયરીંગના હેડ ડો.પી. એમ.જયોર્જ સ્ટ્રક્ચરલ એન્જિનિયરીંગના હેડ ડો.એ.કે. વર્મા, આઈટી એન્જિનિયરીંગના હેડ ડો.કે.પુરુષોત્તમ, ડો.પી.એમ.પટેલ ઉપસ્થિત રહ્યા હતા. કાર્યક્રમનું સંચાલન ડો.કીરિશ્ચ પટેલે કર્યું હતું. અંતમાં ડો.કેમુર શ્રાલભદ્રે સર્વેનો આભાર વ્યક્ત કર્યો હતો.

બિરલા વિશ્વકર્મા મહાવિદ્યાલય ખાતે વેબસાઈટ ડિઝાઈનિંગ તથા યુ-ટ્યુબ ચેનલ ક્રિએશન વિષયે વર્કશોપ



આહંદ, તા. ૭

બિરલા વિશ્વકર્મા મહાવિદ્યાલય ખાતે ઈલેક્ટ્રોનિક્સ એન્ડ કોમ્યુનિકેશન ડિપાર્ટમેન્ટ દ્વારા એસટીઈ ટેકસ્ટી ચેપ્ટર અંતર્ગત વેબસાઈટ ડિઝાઈનિંગ તથા યુ-ટ્યુબ ચેનલ ક્રિએશન વિષય પર એક દિવસીય વર્કશોપનું આયોજન કરવામાં આવ્યું હતું.

વર્કશોપના પ્રારંભે ડો. ભાગવ ગોરડિયાએ ઉપસ્થિત રૂપ અધ્યાપકોનું અભિવાદન કર્યું હતું. તથા એક્સપર્ટની પરિચય આપ્યો હતો. આ પ્રસંગે સંસ્થાના પ્રિન્સિપાલ ડો. ઈન્દ્રજીત એન. પટેલે જણાવ્યું હતું કે, ટીકિંગ એક્ટિવિટી ઉપરાંત એજ્યુકેશન, લાઈફ લોન્ગ લર્નિંગ પર પણ અધ્યાપકોએ ધ્યાન આપવું જોઈએ અને તેના માટે વીકલી અવસંના રૂપ ટકાવવા જોઈએ. ઉપરાંત તેમણે પોતાના પોલિટેકનિક કોલેજના કેનેડા - ઈન્ડિયા પ્રોજેક્ટના કોર્ડિનેટર તરીકેના અનુભવો જણાવ્યા હતા. ઉપરાંત તેમણે આ પ્રકારના ટ્રેનિંગ પ્રોગ્રામનું નિતરંર પણ આયોજન થતું રહે તેવી શુભેચ્છા પાઠવી હતી.

ગુજરાત ઈન્ડસ્ટ્રીઅલ હેકાથોન ૨૦૧૯ના રાજ્યકક્ષાએ ફાયનલ રાઉન્ડ માટે બિરલા વિશ્વકર્મા મહાવિદ્યાલયની પ ટીમોની પસંદગી

આહંદ, તા. ૨૬

ગુજરાત રાજ્ય શિક્ષણ વિભાગ તથા એસએસઆઈપી ના સંયુક્ત ઉપક્રમે યોજાએલ ગુજરાત ઈન્ડસ્ટ્રીઅલ હેકાથોન ૨૦૧૯ના રિજિયોનલ રાઉન્ડના પરિણામ સ્વરૂપે ફાઈનલ રાઉન્ડ માટે સમગ્ર રાજ્ય માંથી ૧૭૧ ટીમોની પસંદગી કરવામાં આવી છે. જેમાં બિરલા વિશ્વકર્મા મહાવિદ્યાલયની પ ટીમો ક્વોલિફાય થઈ છે. જેમાં અલગ અલગ પ્રકારની ઈન્ડસ્ટ્રી જેવી કે લાઈ સ્ટેલ, પ્લસ્ટિક સેક્ટર યુનિટ, ઓરિયમ સ્ટેલ, સ્મોલ સ્ટેલ તથા કોર્પોરેટને લગતા પ્રોબ્લેમ્સ પર ૧૭૧ ટીમ દે તથા ૭ એપ્રિલ ૨૦૧૯ના રોજ પહિલ દિન દર્શાવે તે દિવસે યુનિવર્સિટી, ગાંધીનગર ખાતે કોર્ટિંગ કરશે.

ઉપરોક્ત ઉમેન્ટમાં બીવીએમ એન્જિનિયરીંગ કોલેજમાંથી ચીલી કોપ ડિસીઝ પ્રિવેન્શન પર પ્રો. અમિત ચોક્સીના માર્ગદર્શન હેઠળ શામર, ધૈર્ય, કરદાન, કૈવલ્ય, આદિત્ય, જય, ડિઝાઈન એન્ડ સિમ્યુલેશન ઓફ શન્ટ એક્ટિવ ફિલ્ટર યુસીંગ ફરી લોજીક પર પ્રો. સ્વામિભાઈ આર્યાના માર્ગદર્શન હેઠળ દિપ્તેશ, ફુલાલ, સ્માઈટ પાર્કિંગ સિસ્ટમ પર પ્રો. મયુર એમ.



સેવક ના માર્ગદર્શન હેઠળ વેદાંત, પ્રથમ, દેવ, નિર્ભય, પ્રથમેષ, સ્ટુડન્ટ ઓન લાઈન એટેન્ડન્સ મોનિટરીંગ સિસ્ટમ પર પ્રો. પ્રિયંક ભોજકના માર્ગદર્શન હેઠળ રવિ, પ્રિયાંક, પરીક્ષિત, સંદીપ, તુષા રિઝવાન, જિમી તથા ડેવલપિંગ ઈન હાઈસ પ્રોડિક્ટિવ એનાલિટિક્સ ટૂલ ફોર ઈમ્પ્રોવિંગ પ્લાન્ટ અવેલેબિલિટી પર પ્રો. મોસીન હસનના માર્ગદર્શન હેઠળ રાજેશ, પ્રણવ, ઋત્વિક, માનસ, સાગર, ચિંતન, મયંક, આકાશ પોતાના પ્રોજેક્ટ રજૂ કરશે.

ગુજરાત ઈન્ડસ્ટ્રીઅલ હેકાથોન ૨૦૧૯ના રાજ્યકક્ષાએ ફાઈનલ રાઉન્ડમાં અલગ અલગ ઈન્ડસ્ટ્રી સેક્ટરમાં વિજેતાને ૫૦,૦૦૦ બીજા તથા ત્રીજા ક્રમકે મેળવનાર ટીમને અનુક્રમે ૩૫,૦૦૦ તથા ૨૫,૦૦૦ રૂપાઈ આપવામાં આવશે. ઉપરાંત ઈન્ડસ્ટ્રી ઈવેલ્યુએશન પ્રમાણે પસંદગી પામેલ ટીમને Proof of concept માટે ૨,૦૦,૦૦૦ રૂપાઈની મદદ એસએસઆઈપી દ્વારા કરવામાં આવશે. બીવીએમની પ ટીમની પસંદગી બદલ સંસ્થાના પ્રિન્સિપાલ તેમજ ચાર્ટર્ડ વિદ્યામંડળ દ્વારા અભિનંદન પાઠવાયા હતા.

બીવીએમમાં એમવાયએસવાય સ્કોલરશીપ માર્ગદર્શન અંગેનો સેમિનાર

આહંદ, તા. ૨૮

ચાર્ટર્ડ વિદ્યામંડળ સંચાલિત બિરલા વિશ્વકર્મા મહાવિદ્યાલય, વલ્લભ વિદ્યાનગર ખાતે 'મુખ્યમંત્રી યુવા સ્વાવલંબન યોજના - 'MYSY' સ્કોલરશીપનો માર્ગદર્શન આપતો સેમિનાર સંસ્થાના આચાર્ય ડો. ઈન્દ્રજીત પટેલ, પ્રો. કિર્તીકુમાર જે. શર્મા, પ્રો. કનુ પટેલ અને રશિતભાઈની હાજરીમાં યોજાયો હતો.

ગુજરાત સરકાર દ્વારા તેજસ્વી વિદ્યાર્થીઓને અભ્યાસ માટે પ્રોત્સાહન તથા કારકિર્દી ઘડતરની સમાન તક માટે આ જનકલ્યાણકારી યોજનાનો પ્રારંભ ૨૦૧૧માં થયો હતો. બીવીએમ હેલ્પસેન્ટર આણંદ જિલ્લામાં આવેલા ચાર હેલ્પસેન્ટર પૈકીનું એક અગ્રેસર હેલ્પસેન્ટર છે. જેમાં એન્જિનિયરીંગની તમામ શ્રાચ માટે ૮૦ પરસેન્ટાઈલથી વધુ મેળવતા અને પાત્રતા ધરાવતા વિદ્યાર્થીઓને આ યોજના અંતર્ગત સ્કોલરશીપ મેળવવા માટે તમામ



આચાર્ય ડો. ઈન્દ્રજીત પટેલે પ્રકારના સ્કોલરશીપની ઉપયોગીતા વિશે ભાર મૂકી અને આયોજકોને અભિનંદન પાઠવાયા હતા.

સંસ્થાના MYSY ના નોડલ ઓફિસર પ્રો. કિર્તીકુમાર જે. શર્માએ ઉચ્ચ શિક્ષણ સહાય માટેની પાત્રતા, સહાય અને સરકારી પરિષ્કેપની માહિતી આપી હતી. MYSY ના કોર્ડિનેટર પ્રો. કનુ પટેલે ઓનલાઈન ફોર્મ કેવી રીતે ભરવું તેની માહિતી આપી હતી. સેમિનારના અંતે વિદ્યાર્થીના સવાલોના જવાબ આપવામાં આવ્યા હતા.



Report Created By:

Prof. Priyank Bhojak
(IT Department)

Guided By:

Dr. Keyur Brahmhatt
(Head, IT Department)

INFORMATION TECHNOLOGY DEPARTMENT
Birla Vishvakarma Mahavidyalaya



**BIRLA VISHVAKARMA MAHAVIDYALAYA
ENGINEERING COLLEGE**
(An Autonomous Institution)



INFORMATION TECHNOLOGY DEPARTMENT

Activity Report : 2019- 20

CHARUTAR VIDYAMANDAL

CVM was established in the year 1945 by Shri Bhaikaka and Shri Bhikhubhai as a charitable trust with a prime objective of rural development through education to bring about the social awakening, social upliftment, and enrichment. In the 1990s. In 1994, Dr. C L Patel took over the reigns of CVM as the chairman, and through his dynamic leadership, missionary zeal and visionary outlook. CVM rejuvenated the ongoing education system but added a modern education campus at New Vallabh Vidyanagar. Recently, Er. Bhikhubhai Patel took a charge. He is a visionary personality with a goal to enhance the quality of education using recent technological advancements. It runs 48 institutions from KG to Post Doctorate, almost in all branches of education and catering more than 50,000 students from 21 states and 12 countries across the world.

ABOUT DEPARTMENT

The Departments of Information Technology is one of the most efficient departments of Institute. The departments has highly qualified, well experienced and dedicated faculty members. The department is equipped with advanced instruments and equipment for research facilities. Experts from leading industries and educational institutes are invited frequently for guest lectures on recent developments for the benefit of students and staff.



OBJECTIVES

The objective of expert lectures is to explore particular subject with interaction with industry experts. Expert session provide platform to students to express their ideas and view. Student gets benefit to relate theoretical with practical inputs of field. Series of such expert talk, workshop and industrial visit pour an extra enthusiasm to student to give practical approach to their study.



INSTITUTE GLANCE

Birla Vishvakarma Mahavidyalaya Engineering College was established in 1948 from donations made by the Birla Education Trust on the behest of Sardar Vallabhbhai Patel, the first Home Minister of independent India. Functioning under the umbrella of Charutar Vidya Mandal (CVM), BVM is the first engineering college of Gujarat state established way back in 1948. BVM is the first Autonomous Engineering institute of Gujarat to obtain academic autonomy for all its UG & PG programs, by University Grant Commission (UGC). More than 20000+ engineers have graduated from BVM College engaged in varieties of field across the globe. Institute offers 08 B.Tech and 08 M.Tech degree courses. The college is affiliated to the Gujarat Technological University. It is a matter of pride, that the Institute has successfully completed prestigious World Bank Assistance Project, TEQIP-II of INR 10 crores and further has been continuing with TEQIP-III grant of INR 7 crores. Majority programs of BVM are awarded accreditation by NBA-AICTE.



Er. Bhikhubhai Patel

CHAIRMAN, CVM

CVM is one of India's leading NGO and non-profitable charitable organization working in the field of education founded to cater education to the rural mass of Gujarat. In this age of the Global Village, when global interdependence and competition are upon us, CVM is trying to educate and train our youngsters to keep up and keep pace with the best and the brightest in the world. CVM is offering all the programmes of study appropriate to the modern age, and maintaining high standards of education. CVM is always supporting all the activities for Students and faculties' development. Our all institutes are trying best by organizing such a expert talk, workshop and industrial visit so that students and faculties get benefitted and enhanced their knowledge. Once again, we wish all our students and faculty a successful and rewarding career.

Dr. Indrajit Patel

PRINCIPAL, BVM

Technical Education is the backbone of every nation and is the stepping stone for a country to move into the niche of a developed nation. BVM Engineering College is one of among reputed technical institutes imparting finest quality education. The evolution of the institute over the past six decades has witnessed strong blend of state-of-the-art infrastructure and intricately intertwined human resource committed to provide professional education with thrust on creativity and innovation. BVM is continuously involved in organizing seminars, workshops, Expert talks and Webinars at Various platforms to give students practical approach to their study. I am confident that the college, with its rich legacy, will continue to shape the future of the young minds of our country and transform their potential into successful careers resulting in national development. BVM is constantly taking step towards development of students, faculties and industry academia partnerships.



Dr. Keyur N. Brahmabhatt

HEAD, IT DEPARTMENT

The Information Technology Department is one of the vibrant department of our college which was started in the year 2001 with intake capacity of 60 seats. We have a highly committed and competitive team of faculty fraternity, who experiments and adapts new innovative pedagogy methods for making all the technical concepts clear as well to keep our students abreast with the latest technologies, skills and developments emerging in this field. At BVM we have kept special provision on Saturday for learning beyond curriculum and as part of that department organizes a number of workshops, seminars and guest lectures by inviting reputed experts from industry and academia. The department is proud of running certification programs like Red hat Academy, AWS and few others which provides an edge to the students over the students from other institutes. We are a team working with the vision: "Produce IT engineers with technological and proficient abilities to work on real challenges of the industries and societal needs."

STUDENT ACTIVITIES FOR THE ACADEMIC

YEAR 2019-20

(Semester-I)

Sr.	Title of the Activity (Expert talk / Workshop / Industry Visit)	Convener	Coordinators	Date	Resource Person/Industry
1	Expert Talk on “Hands-on version control on git and github”	Dr.Keyur Brahmbhatt	Prof. Bijal Dalwadi Prof Prachi Shah	29-06-2019	Prof. Sagar Patel, Charusat
2	Expert talk on “Cross Platform App Development using Flutter”	Dr.Keyur Brahmbhatt	Dr. Zankhana Shah, Prof. Prachi Shah	02-07-2019 to 04-07-2019	Mr. Fardeen Khan (4th Year IT student)
3	Expert talk on “Real Applications of Technologies”	Dr.Keyur Brahmbhatt	Prof. Krupali Shah	07-07-2019	Mr. Mihir Khandhar, DAIICT, Gandhinagar
4	Expert Talk on “Blockchain Technology: A future Perspective”	Dr.Keyur Brahmbhatt	Dr.Keyur Brahmbhatt Prof.Chintan Mahant	20-07-2019	Mr.Sohil Shah Adrixus Technologies
5	Expert talk on “Importance of Programming”	Dr.Keyur Brahmbhatt	Prof. Prachi Shah	27-07-2019	Prof. Priyang Bhatt GCET
6	Expert Talk on “Network and Server Administrator”	Dr.Keyur Brahmbhatt	Dr.Nilesh Prajapati Prof.Chintan Mahant	27-07-2019	Mr. Devang Patel All Script India LLP ,vadodara
7	Expert talk on “Internet addiction”	Dr.Keyur Brahmbhatt	Dr. Nilesh Prajapati, Prof. Prachi Shah	07-09-2019	Prof. Mosin Hasan, BVM Engineering College
8	Expert talk on “Graphics Application Development using UNITY”	Dr.Keyur Brahmbhatt	Dr. Zankhana Shah	16-09-2019 to 19-09-2019	Mr. Fardeen Khan (4th Year IT student)

STUDENT ACTIVITIES FOR THE ACADEMIC

YEAR 2019-20

(Semester-II)

Sr.	Title of the Activity (Expert talk / Workshop / Industry Visit)	Convener	Coordinators	Date	Resource Person/Industry
1	Expert talk on “Laravel:Web Application Framework”	Dr.Keyur Brahmbhatt	Prof. Krupali H. Shah	04/01/2020	Mr.Parth Surti 3rd year IT Student
2	Industrial Visit at “Serpent Consultancy Services Private Ltd.”	Dr.Keyur Brahmbhatt	Prof. Vishal Polara, Prof. Chintan Mahant Prof. Bijal Dalwadi	04/01/2020	Serpent Consultancy Services Private Ltd. Gandhinagar
3	Expert talk on “RHA Kick Start”(Red hat academy)	Dr.Keyur Brahmbhatt	Dr. Vatsal Shah Prof. Priyank Bhojak	01/02/2020	Mr. Nilesh Vaghela, Electromech Ahmedabad
4	Expert talk on “React Native : Open-source mobile application Framework”	Dr.Keyur Brahmbhatt	Prof.Dharmesh Patel Prof.Priyank Bhojak	08/02/2020	Mr. Krupal Agravat ,Codentic Software,V V nagar
5	Expert talk on “Hands-on session of GitHub on different IDE”	Dr.Keyur Brahmbhatt	Prof. Bijal Dalwadi Prof. Prachi Shah	14/02/2020	Prof. Sagar Patel, Assistant Proferssor, CSPIT, Changa
6	Expert talk on “Data Analytics and Business Intelligence: How qlik helps!”	Dr.Keyur Brahmbhatt	Dr.Nilesh Prajapati Dr. Zankhana Shah	29/02/2020	Mr. Hardik Patel Manager, R&D at Qlik ,Vadodara
7	Expert talk on "Bootstrap"	Dr.Keyur Brahmbhatt	Dr.Keyur Brahmbhatt Prof.Chintan Mahant	14/03/2020	Mr.Parth Surti 3rd year IT Student

1) Expert Talk on “Hands-on version control on git and github”

Event Name:	Expert Talk on “Hands-on version control on git and github”
Date:	29 th June 2019
Venue:	Lab 5, B-Block
Expert Name:	Prof. Sagar Patel, Charusat
Duration:	10:00 am to 1:00 pm
Total Number of Students:	30
Event Coordinators:	Prof. Bijal Dalwadi Prof Prachi Shah

Overview of Topic

Version control allows you to keep track of your work and helps you to easily explore the changes you have made, be it data, coding scripts, notes, etc. With version control software such as Git, version control is much smoother and easier to implement. Using an online platform like Github to store your files means that you have an online back-up of your work, which is beneficial for both you and your collaborators.

About Expert talk

Information Technology department of BVM Engineering College had organized One day Expert talk on “Hands-on version control on git and github” for 3rd year students on 29th June, 2019 for 03 Hours. There were total 30 Participants, who attended the Expert talk. The expert was invited from Charusat, Changa.

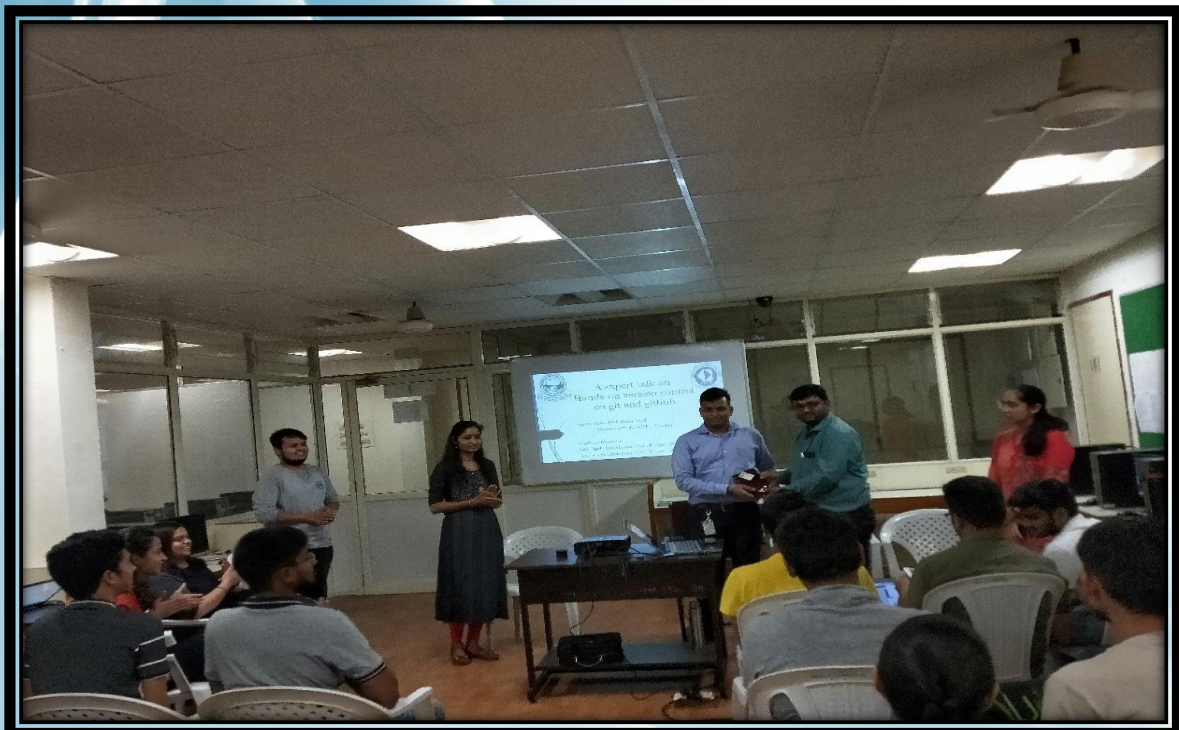
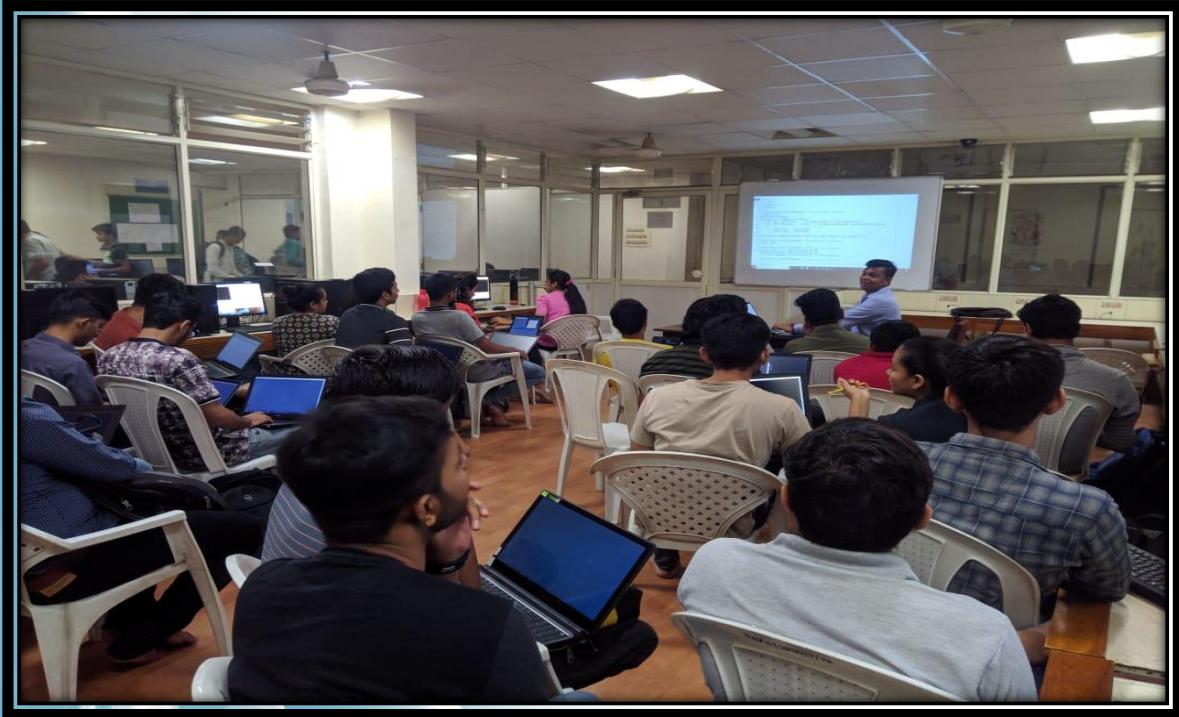
The topics were covered in the Expert talk as below:

- Installing Git
- Creating new local Git repository
- Cloning a Git repository
- Creating a GitHub repository
- Adding, pushing and committing changes
- Conflict resolution

*Birla Vishvakarma Mahavidyalaya Engineering College
(An Autonomous Institution)*

The motive of this expert talk was students can learn Git and Github, keep track of their work, also keep online back-up of their work.

Glimpses of the Event:



2) Expert talk on “Cross Platform App Development using Flutter”

Event Name:	Expert talk on “Cross Platform App Development using Flutter”
Date:	2 nd July to 4 th July, 2019
Duration:	09:00 am to 10:15 am
Venue:	B Block, IT Department, BVM
Resource Person:	Mr. Fardeen Khan (4th Year IT student)
Event Coordinator	Dr. Zankhana Shah, Prof. Prachi Shah
Student Coordinator	Mr. Himanshu Thacker ,3rd Year IT Student
Number of Participants	42

Objective:

Learn to use Flutter framework, a powerful cross-platform application development framework by google. Deliver the knowledge of how to get started with mobile app development in Flutter.

About Expert talk

As a part of Peer-to-Peer Learning activity, Information Technology Department had organized Three Day workshop on “Cross Platform Development using Flutter” from 16th September to 19th September, 2019 during 08:30 am to 10:15 am under the banner of ISTE Student Chapter. 42 students of 3rd& 4thyear IT actively participated in sessions. The sessions were conducted by Mr. Fardeen Khan, Mr. Arjun Khunti and Mr. BhavyankVithalani of 4th year IT. The workshop was coordinated by Dr. Zankhana Shah and Prof. Prachi Shah.

Following concepts were explained with hands on training:

- ✓ Introduction to Mobile Application Development and conventional tools.
- ✓ Introduction to Flutter, new cross platform application development framework

Birla Vishvakarma Mahavidyalaya Engineering College
(An Autonomous Institution)

- ✓ Comparison of Flutter with other popular frameworks
- ✓ Installation of Android SDK and Flutter in Android Studio/Visual Studio Code
- ✓ Getting familiar with the software's interface and options
- ✓ Introduction to Dart, the primary language used in Flutter
- ✓ Hands on development of a simple Favorites app for handling UI design, user interaction, event handling, navigation and local storage.

Outcome:

- The sessions ended with an enthusiastic note on exploring mobile app development using single codebase in a much easier and faster method compared to conventional toolkits.
- Students learned how to create simple applications in Flutter.

Glimpses of the Event:



*Birla Vishvakarma Mahavidyalaya Engineering College
(An Autonomous Institution)*



3) Expert talk on “Real Applications of Technologies”

Event Name:	Expert talk on “Real Applications of Technologies”
Date:	07 July 2019
Venue:	4 th floor F-Block, CE Department
Expert Name:	Mr. Mihir Khandhar, M.Tech DAIICT, Gandhinagar
Duration:	1.5 Hours
Total Number of Students:	15
Event Coordinators:	Prof. Krupali Shah

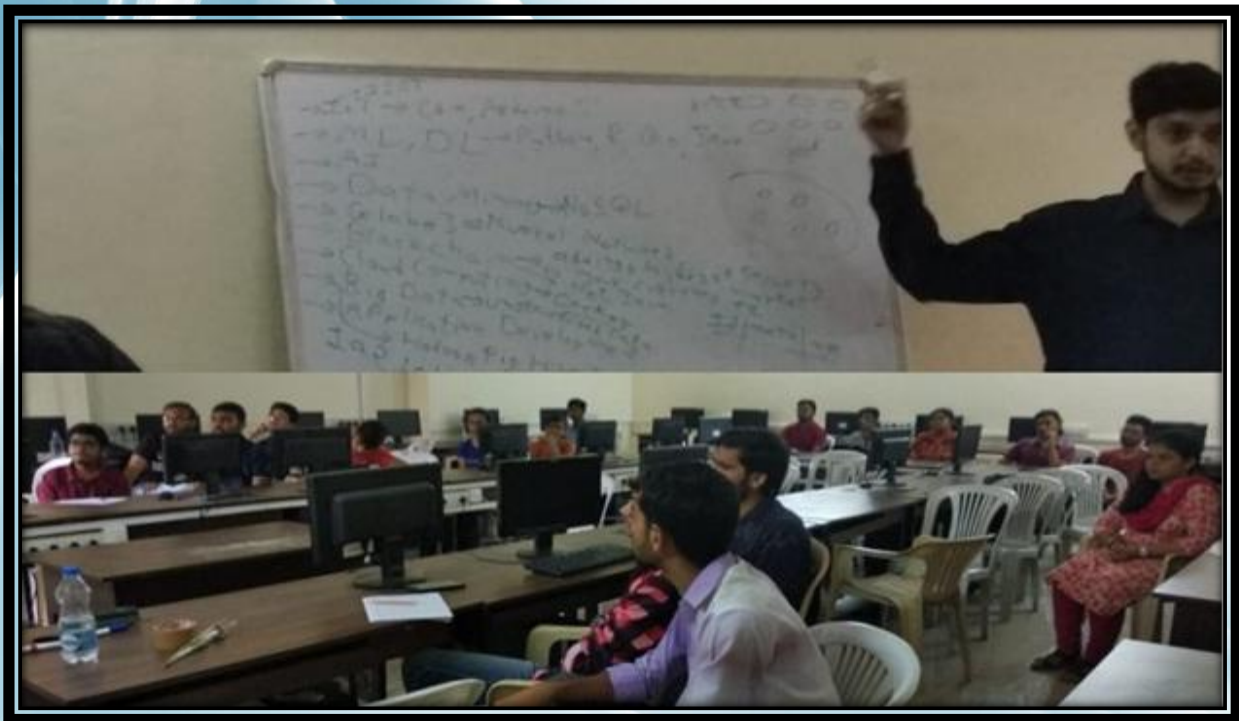
Overview of Topic

The student study many subjects in their curriculum. But students are not aware where in real life that technology will be implemented. The workshop gave glimpses of use of technologies for real life applications.

About Expert talk

The aspects of application development like frontend, backend and database was discussed. The technologies used at each level were discussed. Also various advanced topics like AI, Machine learning, IoT, Data Analytics, Cyber Security were discussed and tools used in each of these were discussed and explained.

Glimpses of the Event:



4) Expert Talk on “Blockchain Technology: A future Perspective”

Event Name:	Expert Talk on “Blockchain Technology: A future Perspective”
Date:	20/07/2019
Venue:	B304, IT department
Expert Name:	Mr.Sohil Shah CEO, Adrixus Technologies, Vadodara
Duration:	10:00 am to 12:00 noon
Total Number of Students:	30
Event Coordinators:	Dr.Keyur Brahmhatt Prof.Chintan Mahant

About Expert Talk

Information Technology department of BVM Engineering College had organized One day expert talk on “Blockchain technology: A future Perspective” for 3rd year students on 20/07/2019 for 2 Hours. There were total 33 Participants, who attended the expert talk. The expert was invited from eAdrixus Technologies, Vadodara. The topics were covered in the expert talk as below:

Basics of blockchain Technology:

In this topic expert explained the basics of blockchain. The topic explores the various terminologies, various types of blockchains etc. Expert also explained the various aspects of blockchain. He also demonstrated some practicals on blockchain so students got idea how actually blockchain can provide security. The motive of this event was students can learn the knowledge to move forward in the field of Security.

Glimpses of the Event:



5) Expert talk on “Importance of Programming”

Event Name: Expert talk on “Importance of Programming”

Date and time: 27th July, 2019

Expert Name: Prof. Priyang Bhatt,
GCET Engineering College

Venue: B308, B Block, IT department, BVM

Total Number of Students: 54

Faculty Coordinator: Prof. Prachi Shah

About Expert talk

Information Technology department of BVM Engineering College had organized one day expert talk on “Importance of Programming” for 1st year IT students on 27th July, 2019 for 2 Hours. There were total 54 Participants, who attended the expert talk. The expert was invited from GCET Engineering College, V.V.Nagar.

The topics that were covered in the expert talk are as below:

- About requirement of programming
- How to learn programming and how to overcome the common mistakes
- Basic understandings required for learning C programming
- Importance of studying C, C++ and Python language in current era
- Creating programs and applications using programming
- Improving the programming skills
- Various future domains and platforms used for developing user friendly software system applications

The motive of this expert talk was that the students can understand the importance of programming and how to improve programming skills, as well as know about its various applications and domains.

Glimpses of the Event:



6) Expert Talk on “Network and Server Administrator”

Event Name:	Expert Talk on “Network and Server Administrator”
Date:	27/07/2019
Venue:	Lab 5, IT department
Expert Name:	Mr. Devang Patel All Script India LLP, Vadodara
Duration:	10:00 am to 12:00 noon
Total Number of Students:	24
Event Coordinators:	Dr.Nilesh Prajapati Prof.Chintan Mahant

About Expert talk

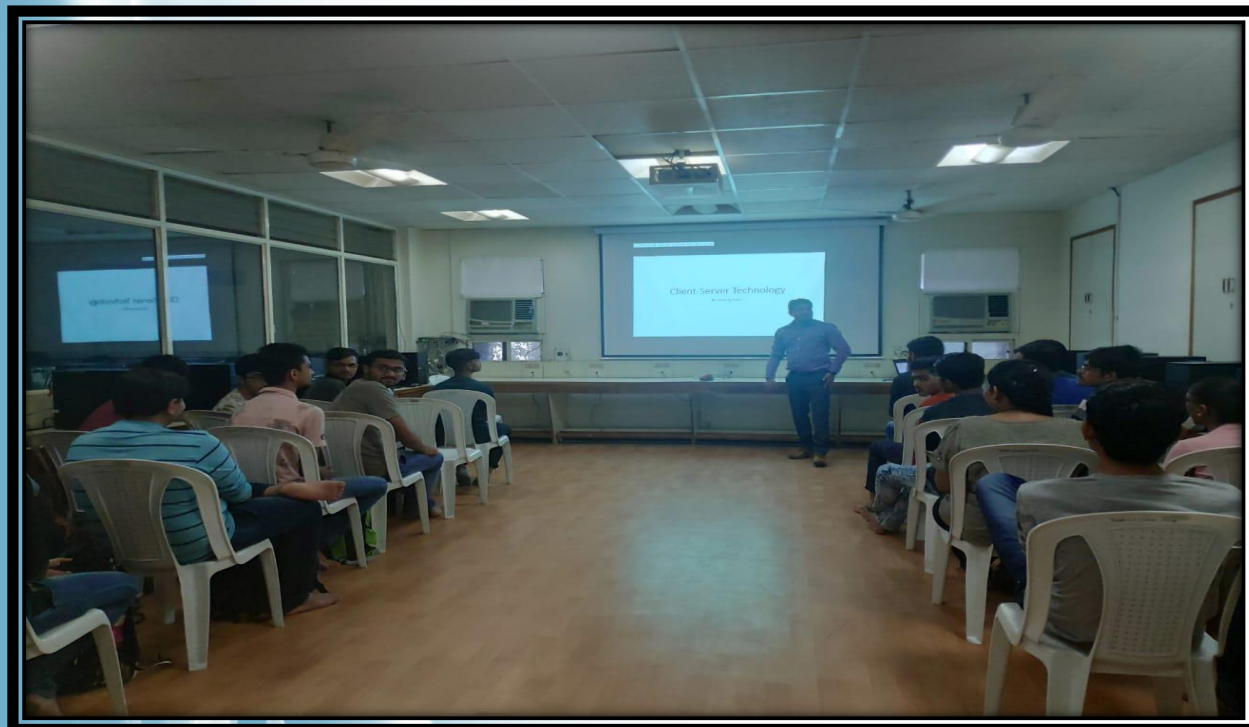
Information Technology department of BVM Engineering College had organized One day expert talk on “Network and Server Administrator” for 2nd year students on 27/07/2019 for 2 Hours. There were total 24 Participants, who attended the expert talk. The expert was invited from AllScript India LLP, Vadodara. The topics were covered in the expert talk as below:

Basics of Computer networks

This topic is relevant to the 3rd semester subject of Computer Networks for IT students. The topic explores the basics network devices, different topologies, different cables which are used to create network. Expert discussed the TCP/IP model and its protocol stack. Expert also explained basic routing algorithms which has great significance in computer network.

The motive of this event was students can learn the knowledge in computer network to move forward in the field of network and security.

Glimpses of the Event:



7) Expert talk on “Internet addiction”

Event Name:	Expert talk on “Internet addiction”
Date:	7 th September, 2019
Venue:	B-302, B Block, IT department, BVM
Expert Name:	Prof. Mosin Hasan, Computer Dept., BVM Engineering College
Duration:	10:30 am to 12:30 pm
Total Number of Students:	59
Event Coordinators:	Dr. Nilesh Prajapati, Prof. Prachi Shah

Overview of Topic

With the growing importance of internet in day-to-day life, more and more people are accessing various online resources each day. The World Wide Web is informative, convenient, resourceful, fun, but also is a way for internet addiction. Internet addiction is defined as the compulsive urge to continuously use the Net, whether it be to spend hours surfing the Web, hang around in IRC chat rooms or play online games.

About Expert talk

Information Technology department of BVM Engineering College had organized one day expert talk on “Internet addiction” for 1st year IT students on 7th September, 2019 for 2Hours. There were total 59 participants, who attended the expert talk. The expert were from Computer department, BVM Engineering College, V.V.Nagar. The topics that were covered in the expert talk are as below:

- ✓ About Internet Addiction.
- ✓ How it affects the humans.
- ✓ Lack of some planning or thinking activities that may cause addiction.
- ✓ About dopamine, Social media and dopamine.
- ✓ Points that determine whether you are addicted or not.

Birla Vishvakarma Mahavidyalaya Engineering College
(An Autonomous Institution)

The motive of this expert talk was that the students can understand the concepts related to the field of Internet addiction and know about its cause.

Glimpses of the Event:



8.) Expert talk on “Graphics Application Development using UNITY”

Event Name:	Graphics Application Development using UNITY
Date:	16 th September to 19 th September, 2019
Duration:	08:30 am to 10:15 am
Venue:	B Block, IT Department, BVM
Resource Person:	Mr. Fardeen Khan, 4 th Year IT student)
Event Coordinator:	Dr.Zankhana Shah
Student Coordinator:	Mr. Himanshu Thacker (3rd Year IT Student)
Number of Participant:	30

Objective:

- ✓ Learn Unity 3D, a powerful cross-platform open source 3D engine and a user-friendly development environment.
- ✓ Deliver the knowledge of how augmented reality technology is used in Unity to create a graphics application.

About Expert talk

As a part of Peer-to-Peer Learning activity, Information Technology Department had organized Four Day workshop on “Graphics Application Development using UNITY” from 16th September to 19th September, 2019 during 08:30 am to 10:15 am under the banner of CSI Student Chapter. 30 students of 3rd year IT actively participated in sessions. The sessions were conducted by Mr. Fardeen Khan, 4th year IT student and coordinated by Dr. Zankhana Shah.

Following concepts were explained with hands on training:

- ✓ Introduction to Game Engines and Unity
- ✓ Installation of Unity Hub (Project manager) and Editor (actual Game engine)
- ✓ Getting familiar with the software's interface and options

Birla Vishvakarma Mahavidyalaya Engineering College
(An Autonomous Institution)

- ✓ Introduction to Assets, Scenes (Levels), in game hierarchy of objects, Scripting for game logic, rendering and position of objects, input from keyboard and mouse
- ✓ Full scale tutorial on designing a Flappy Bird like endless 2D game. Topics covered: 2D image assets, physics and motion scripting, GUI menu design, Animations
- ✓ Introduction to AR and Vuforia AR library
- ✓ Using Image targets displayed a 3D character model on an Image through camera

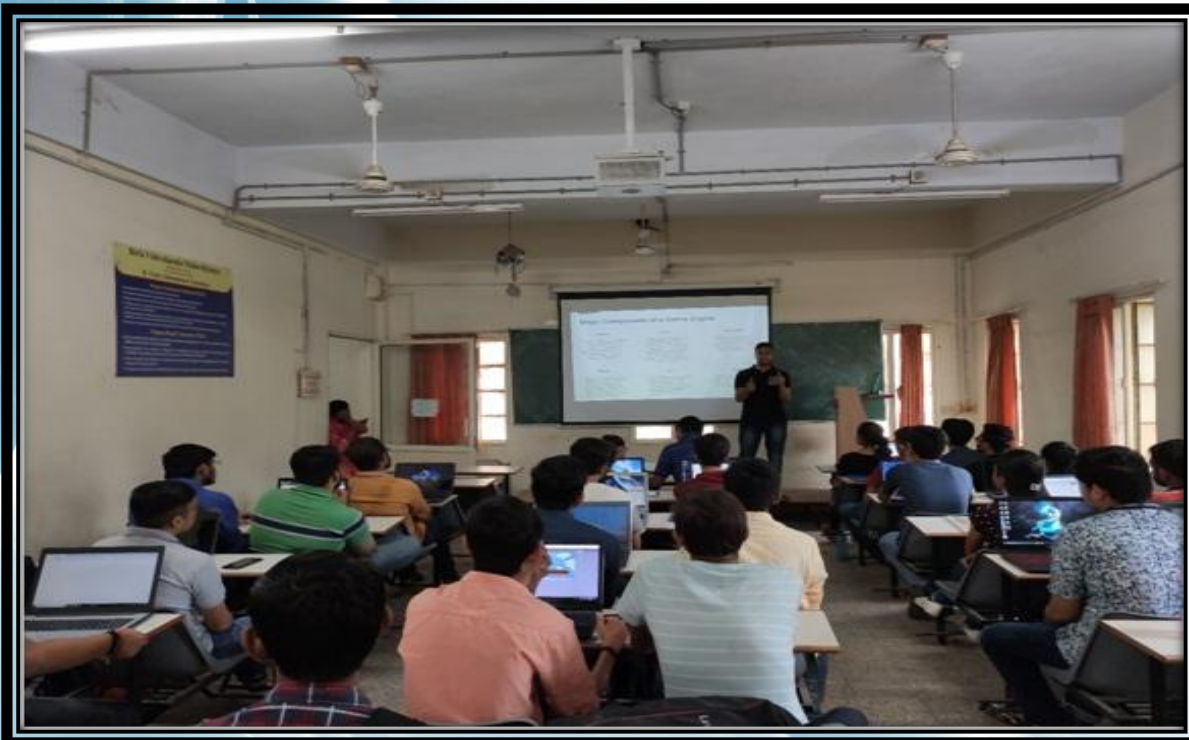
Outcome:

- The sessions ended with an enthusiastic note on exploring open source software and platforms for developing user friendly graphics applications.
- Students learned how to create animation using graphics concepts.
- Students learned to develop graphics applications and games using various concepts of 2D, 3D and augmented reality.

Glimpses of the Event:



*Birla Vishvakarma Mahavidyalaya Engineering College
(An Autonomous Institution)*



STUDENT ACTIVITIES FOR THE ACADEMIC
YEAR 2019-20
(Semester-II)

Expert talk on “Laravel:Web Application Framework”

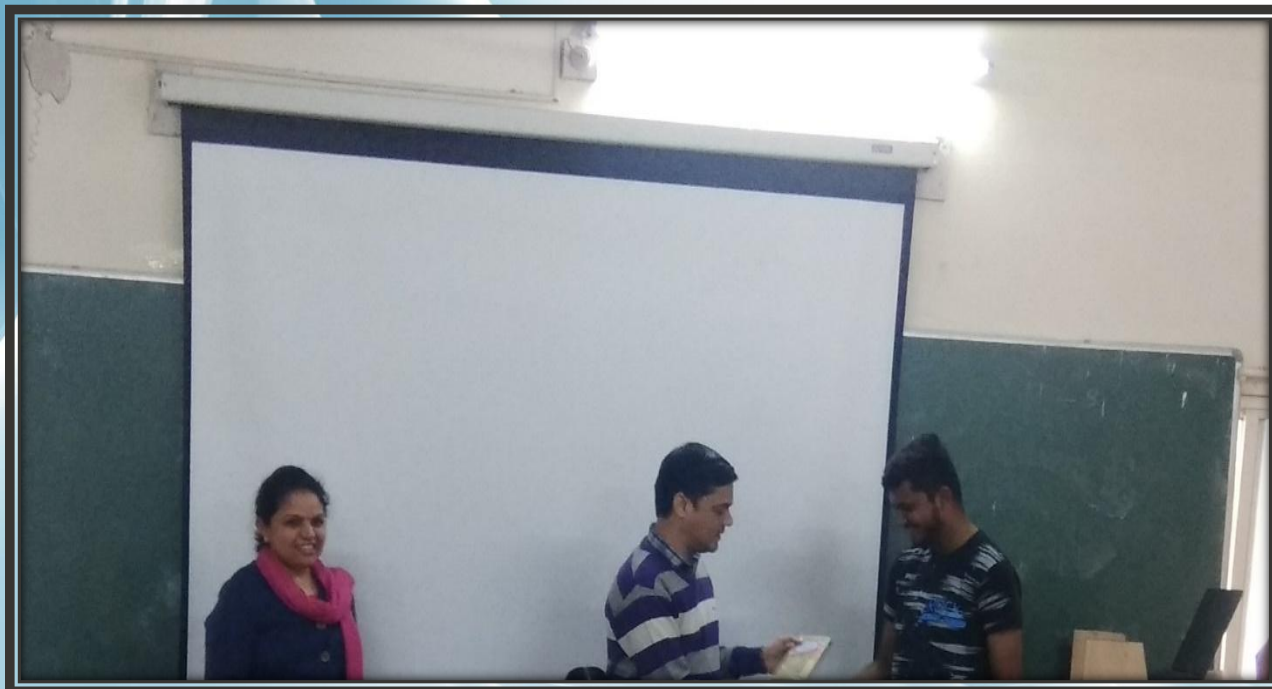
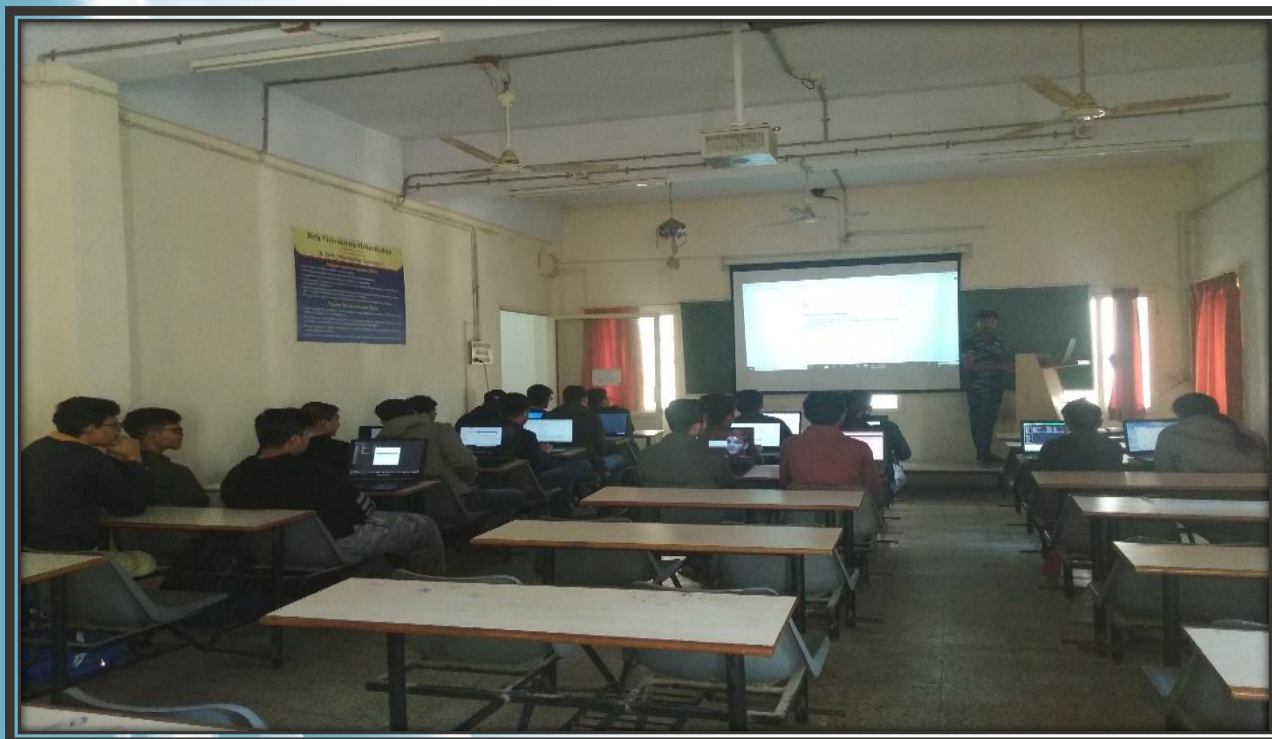
Event Name:	Expert talk on “Laravel:Web Application Framework”
Date:	04 th January 2020
Venue:	B-304, IT Department
Expert Name:	Mr. Parth Surti, 3 rd year IT student
Duration:	10:00 am to 1:00 pm
Number of Participants:	21
Event Coordinators:	Prof. Krupali Shah

About Expert talk

Laravel is a free, open-source PHP web framework, created by Taylor Otwell and intended for the development of web applications following the model–view–controller (MVC) architectural pattern and based on Symfony. Some of the features of Laravel are a modular packaging system with a dedicated dependency manager, different ways for accessing relational databases, utilities that aid in application deployment and maintenance, and its orientation toward syntactic sugar. The source code of Laravel is hosted on GitHub and licensed under the terms of MIT License.

Information Technology department of BVM Engineering College had organized One day Expert talk on “Laravel:Web Application Framework” on 04/01/2020. The training was executed by expert Mr. Parth Surti student of IT Department, BVM. The students appreciated the initiatives and were ready to do advanced course in the same subject.

Glimpses of the Event:



Industrial Visit at “Serpent Consultancy Services Private Ltd.”

Event Name:	Industrial Visit at “Serpent Consultancy Services Private Ltd.”
Date:	04 th January, 2020
Duration:	One day
Company details:	Serpent Consultancy Services Private Ltd., Gandhinagar
Number of Participants	46
Event Coordinator	Prof. Vishal Polara Prof. Chintan M. Mahant Prof. Bijal Dalwadi

About Visit:

Our tour started with a lot of excitement & enthusiasm. The technical visit to Serpent Consultancy Services Private Ltd. was organised on 4th January, 2020. We started our journey from college at 08:30 am. We were 46 students (Second year and Third Year IT) and 3 faculties (Prof. Chintan M. Mahant, Prof. Vishal Polara, Prof. Bijal Dalwadi) in total. The bus was provided by BVM. Around 11:00 am, we reached Serpent Consultancy Services Private Ltd. Students of 2nd and 3rd year IT at BVM, Ready to go for the visit. Later upon reaching there we were given some refreshment after which the teams and about the organization was explained to us.

We were told about how the company works what are its department and a complete explanation about each department like Networking, Development, Testing Q and A Team, along with some AR and VR Segment where many demonstrations were given along with many other departments including sales, etc.

*Birla Vishvakarma Mahavidyalaya Engineering College
(An Autonomous Institution)*

Glimpses of the Visit:



Expert talk on “RHA Kick Start”(Red hat academy)

Event Name:	Expert talk on “RHA Kick Start”(Red hat academy)
Date:	1 st February 2020
Venue:	LRUC, BVM Engineering College
Expert Name:	Mr. Nilesh Vaghela, Electromech ,Ahmedabad
Duration:	2 Hours
Number of Participants:	68
Event Coordinators:	Dr. Vatsal Shah Prof. Priyank Bhojak

About Expert talk

Information Technology Department had successfully organized Expert Talk on “RedHat Kick Start” on 1th February 2020 form 12:30 pm to 2:30 pm. There were total 68 Participants, who attended the expert talk. The expert was invited from Electromech, Ahmedabad. The expert talk was conducted by Mr. Nilesh Vaghela Electromech, Ahmedabad

About Red Hat Academy

The Red Hat Academy curriculum involves hands-on instruction across platform, middleware, and cloud technologies. Rather than learning theoretical skills, students learn practical skills based on use cases from thousands of enterprise implementation.

Why Red Hat Academy ??

- ✓ Learn in-demand skills
- ✓ Get certified with discounted exams by the leader in open source
- ✓ Choose your best learning style with multiple courseware formats
- ✓ Gain valuable experience with hands-on lab environments
- ✓ Connect with Red Hat instructors and students in the Red Hat Learning Community

Information Technology Department

Birla Vishvakarma Mahavidyalaya Engineering College
(An Autonomous Institution)

Program features

Red Hat Academy has a number of benefits designed to help students reach their academic and career potential.



Curriculum

High-demand, diverse course content



Experience

Flexible, hands-on lab environments



Validation

Performance-based certification exams



Training

Instructor enablement and preparation



Resources

Globally standardized materials

Glimpses of the Event:



*Birla Vishvakarma Mahavidyalaya Engineering College
(An Autonomous Institution)*



Information Technology Department

Expert talk on “React Native : Open-source mobile application Framework”

Event Name:	Expert talk on “React Native: Open-source mobile application Framework”
Date:	8 th February 2020
Duration:	10:30 am to 1:00 pm
Expert Name:	Mr. Krupal Agravat, Codentic Software, Vallabh Vidhyanagar.
Total Number of Students:	38
Event Coordinators:	Prof.Priyank Bhojak Prof.Dharmesh Patel

About Expert Talk

Information Technology department of BVM Engineering College had organized One day expert talk on “React Native : Open-source mobile application Framework” for 2nd year students on 08/02/2020 for 2 to3 Hours. There were total 38 Participants, who attended the expert talk. The expert was invited from Codentic Software, Vallabh Vidhyanagar.

React Native Technology:

As we know that React Native is a JavaScript framework used for developing a real, native mobile application for iOS and Android, React Native is an exciting framework that enables web developers to create robust mobile applications using their existing JavaScript knowledge. It offers faster mobile development, and more efficient code sharing across iOS, Android, and the Web, without sacrificing the end user's experience or application quality.

Glimpses of the Event:



Expert talk on “Hands-on session of GitHub on different IDE”

Event Name:	Expert talk on “Hands-on session of GitHub on different IDE”
Date:	14 th February, 2020
Duration:	08:15 am to 10:30 am
Expert Name:	Prof. Sagar Patel, Assistant Proferssor, CSPIT, Changa
Venue:	B Block, IT department, BVM
Total Number of Students:	16
Faculty Coordinator:	Prof. Bijal Dalwadi Prof. Prachi Shah

About Expert talk

Information Technology department of BVM Engineering College had organized one day expert talk on “Hands-on session of GitHub on different IDE” for 2ndyear IT students on 14th February, 2020 from 08:15 am to 10:30 am. There were total 16 participants, who attended the expert talk. The expert was invited from CSPIT, Changa. The topics that were covered in the expert talk are as below:

- **Steps to connect to GitHub repositories with Visual Studio:**
Creating clone repositories, publishing local work to GitHub, viewing and creating pull requests and creating gists.
- **Steps to link Android Studio with GitHub:**
Installing git on computer, enabling Version Control Integration on android studio, project sharing and pushing it on GitHub, making changes and commit and push operations which will reflect the changes in repository.

Birla Vishvakarma Mahavidyalaya Engineering College
(An Autonomous Institution)

The motive of this expert talk was that the students can host their source code projects in a variety of different programming languages and keeps track of the various changes made to every iteration.

Glimpses of the Event:



Expert talk on “Data Analytics and Business Intelligence: How qlik helps!”

Event Name:	Expert talk on “Data Analytics and Business Intelligence: How qlik helps!”
Date:	29 th February 2020
Venue:	B Block, IT department,
Expert Name:	Mr. Hardik Patel Manager, R&D at Qlik ,Vadodara
Duration:	10:00 am to 12:00 noon
Total Number of Students:	35
Event Coordinators:	Dr.Nilesh Prajapati Dr. Zankhana Shah

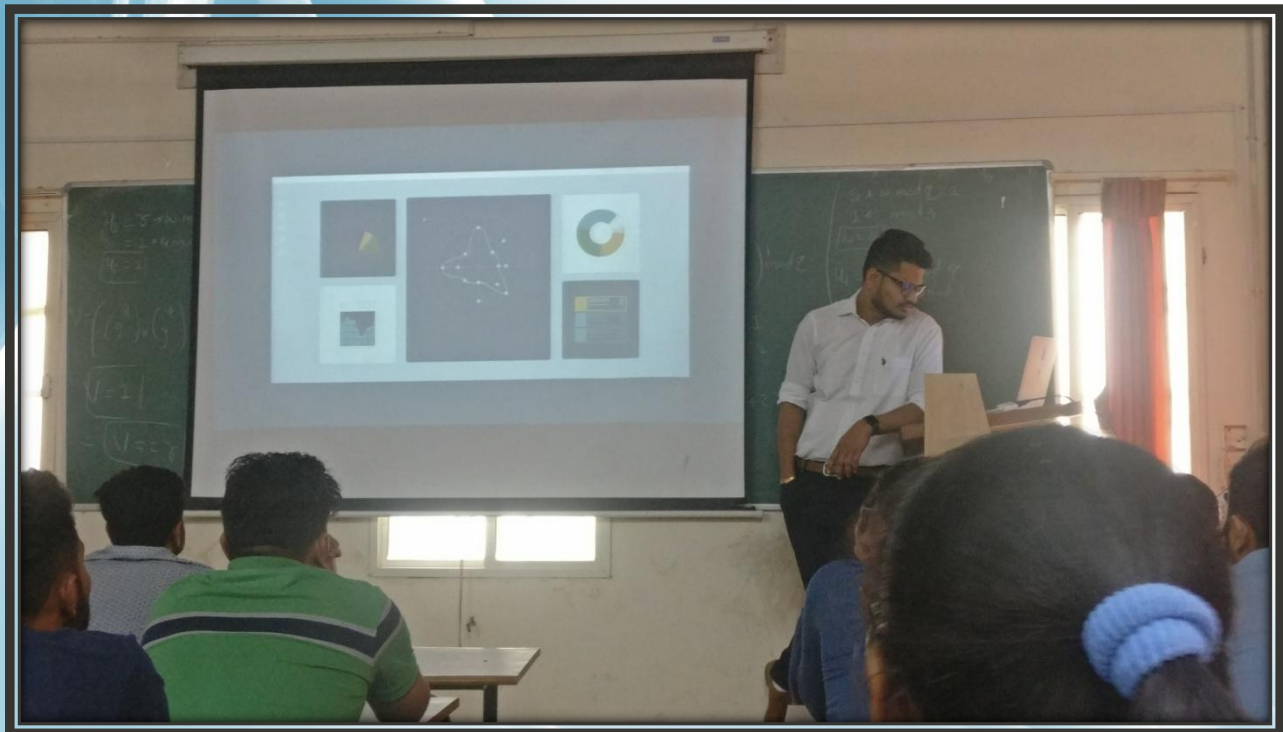
About Expert talk

Information Technology department of BVM Engineering College had organized One day expert talk on “Expert talk on “Data Analytics and Business Intelligence: How qlik helps!” for 3rd year students on 29/02/2020. There were total 35 Participants, who attended the expert talk. The expert was conducted by Mr. Hardik Patel Manager, R&D at Qlik ,Vadodara

Overview of Topic:

Business Intelligence refers to the information required to enhance business decision-making activities. Data Analytics refers to modifying the raw data into a meaningful format. The prime purpose of business intelligence is to provide support in decision making and help the organizations to grow their business. Business intelligence and analytics are data management solutions implemented in companies and enterprises to collect historical and present data, while using statistics and software to analyze raw information, and deliver insights for making better future decisions

Glimpses of the Event:



Expert talk on "Bootstrap"

Event Name:	Expert talk on "Bootstrap"
Date:	14 th march 2020
Venue:	B305 , IT department, BVM
Expert Name:	Mr. Parth Surti , 3rd Year IT Student
Duration:	10:30 am to 12:30 pm
Total Number of Students:	17
Event Coordinators:	Dr.Keyur Brahmbhatt Prof.Chintan Mahant

Overview of Topic

Bootstrap is a free front-end framework for faster and easier web development. Bootstrap includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many other, as well as optional JavaScript plugins.

Bootstrap also gives you the ability to easily create responsive designs. The motive of this event was students can learn how to make responsive website using bootstrap.

About Expert talk

Information Technology department of BVM Engineering College had organized expert talk on "Bootstrap" for 1st year IT students on 14/03/2020 for 2 Hours. There were total 17 Participants, who attended the expert talk. The expert was Mr.Parth Surti. He is 6th semester IT student of BVM Engineering College.

PRESS NOTES

બિરલા વિશ્વકર્મા મહાવિદ્યાલય ખાતે MYSY સ્કોલરશીપ માર્ગદર્શન સેમિનાર યોજાયો

આણંદ, તા. ૧૮ ચારૂતર વિદ્યામંડળ સંચાલિત બિરલા વિશ્વકર્મા મહાવિદ્યાલય, વલ્લભવિદ્યાનગર ખાતે મુખ્યમંત્રી યુવા સ્વાવલંબન યોજના MYSY સ્કોલરશીપનો માર્ગદર્શન આપતો સેમિનાર તા. ૧૬.૦૯.૨૦૧૯ના રોજ પ્રો. કનુ પટેલ અને રક્ષિતભાઈની હાજરીમાં યોજાયો.

ગુજરાત સરકાર દ્વારા તેજસ્વી વિદ્યાર્થીઓને અભ્યાસ માટે પ્રોત્સાહન તથા કારકિર્દી ઘડતરની સમાન તક માટે આ જનકલ્યાણકારી યોજનાનો પ્રારંભ ૨૦૧૫માં થયો હતો. બીવીએમ હેલ્પસેન્ટર આણંદ જિલ્લામાં આવેલા ચાર હેલ્પસેન્ટર પૈકીનું એક અગ્રેસર હેલ્પસેન્ટર છે. જેમાં એન્જિનિયરીંગની તમામ

બાન્ય માટે ૮૦ પર્સેન્ટાઈલથી વધુ મેળવતા અને પાત્રતા ધરાવતા વિદ્યાર્થીઓને આ યોજના અંતર્ગત સ્કોલરશીપ મેળવવા માટે તમામ માર્ગદર્શન તેમજ નોંધણી કરવામાં આવે છે. બી.વી.એમ હેલ્પસેન્ટર ખાતે અત્યારસુધી આણંદ જિલ્લાની જુદી જુદી એન્જિનિયરીંગ કોલેજોને અંદાજિત ૨૬૦૦ જેટલા વિદ્યાર્થીઓએ લાભ લીધેલ છે. આ પ્રવૃત્તિ બીવીએમ એન્જિનિયરીંગ કોલેજમાં છેલ્લા ૫ વર્ષથી કાર્યરત છે. આ સરકારી યોજના અંતર્ગત તેજસ્વી અને આર્થિક રીતે જરૂરીયાતવાળા વિદ્યાર્થીઓને મદદરૂપ બની બીવીએમ સમાજવક્ત્રી કાર્ય કરે છે.

આ માર્ગદર્શન કાર્યક્રમમાં સંસ્થાના આચાર્ય ડૉ. ઇન્દ્રજીત

એન. પટેલે આ પ્રકારના સ્કોલરશીપની ઉપયોગીતા વિષે ભાર મુકી અને આયોજકોને અભિનંદન પાઠવ્યા હતા. સંસ્થાના MYSY ના કોર્ડિનેટર પ્રો. કનુ પટેલે ઉચ્ચ શિક્ષણ સહાય માટેની પાત્રતા, સહાય, ઓનલાઈન ફોર્મ કેવી રીતે ભરવું અને સરકારી પરિપત્રોની માહિતી આપી હતી. સેમિનારના અંતે વિદ્યાર્થીના સવાલોના જવાબ આપવામાં આવ્યા હતા. આ સેમિનારને ૩૨૩ થી પણ વધારે વિદ્યાર્થીઓએ ઉત્સાહપૂર્વક ભાગ લઈ કાર્યક્રમને સફળ બનાવ્યો હતો. કાર્યરત એન આ પ્રસંગે ચારૂતર વિદ્યામંડળના અધ્યક્ષ એન્જિનિયર ભીખુભાઈ પટેલે તથા અન્ય હોદ્દેદારોએ શુભેચ્છા વ્યક્ત કરી હતી.

બીવીએમમાં પાયથોન પ્રોગ્રામિંગ પર વર્કશોપ યોજાયો

આણંદ, તા. ૨૫ ઈન્ડિયન ઈન્સ્ટિટ્યુટ ઓફ ટેકનોલોજી (આઈઆઈટી), મુંબઈ દ્વારા વિદ્યાનગરની બિરલા વિશ્વકર્મા મહાવિદ્યાલય (બીવીએમ) ખાતે પાયથોન વિષય પર એક વર્કશોપ યોજવામાં આવ્યો હતો.

આ વર્કશોપમાં કોલેજના અધ્યાપકોને પાયથોન પ્રોગ્રામિંગ લેન્ગવેજની મૂળભૂત જાણકારી આપવામાં આવી હતી.

બીવીએમના આચાર્ય ડૉ. ઈન્દ્રજીત પટેલે જણાવ્યું હતું કે આર્ટિફિશિયલ ઈન્ટેલિજન્સ તથા મશીન લર્નિંગ માટે પાયથોન પ્રોગ્રામિંગ પાયાની જરૂરિયાત છે. આઈ.આઈ.ટી. મુંબઈના સહયોગથી આ કાર્યક્રમ



યોજવામાં આવ્યો હતો. આઈ.આઈ.ટી. મુંબઈ દ્વારા બીવીએમની લેબોરેટરી અને માળખાકીય સુવિધા જોતાં આ વર્કશોપ માટે અમારી કોલેજ પર પસંદગી ઉતારી હતી. કાર્યક્રમને

સફળ બનાવવા માટે ડૉ. આર.પી. મહેતા (રીમોટ સેન્ટર એડવાઈઝર) પ્રો. પ્રિયાંક ભોજક (કોર્સ કોર્ડિનેટર), રિમોટ સેન્ટર કોર્ડિનેટર પ્રો. અનીશ વ્હોરા તથા પ્રો.કનુ પટેલે ઉત્સાહપૂર્વક

કામગીરી હાથ ધરી હતી. ચારૂતર વિદ્યામંડળના અધ્યક્ષ ભીખુભાઈ પટેલ તથા અન્ય હોદ્દેદારોએ શુભેચ્છા વ્યક્ત કરી હતી.

બિરલા વિશ્વકર્મા મહાવિદ્યાલય ખાતે

‘ક્લાઉડ કમ્પ્યુટિંગ વિથ એમઝોન વેબ સર્વિસીસ’ વિષય પર ફેકલ્ટી ડેવલપમેન્ટ પ્રોગ્રામનો પ્રારંભ



આણંદ, તા. ૨૮

ચારૂતર વિદ્યામંડળ સંચાલિત બિરલા વિશ્વકર્મા મહાવિદ્યાલય ખાતે આઈ.ટી. એન્જિનિયરીંગ ડિપાર્ટમેન્ટ દ્વારા (AICTE અને GTU અંતર્ગત તા. ૨૫-૧૧-૧૯ના રોજ “ક્લાઉડ કમ્પ્યુટિંગ વિથ એમઝોન વેબ સર્વિસીસ” વિષય પર ફેકલ્ટી ડેવલપમેન્ટ પ્રોગ્રામનો પ્રારંભ કરવામાં આવ્યો.

જેમાં મુખ્ય અતિથિ તરીકે ડૉ. એસ.જી.પટેલ (માનદ્ મંત્રી,

સીવીએમ), નિલેશ વાઘેલા (ફાઉન્ડર, ઈલેક્ટ્રોમેક કોર્પોરેશન), ડૉ. દર્શક ઠાકોરે (હેડ કોમ્પ્યુટર એન્જિ.), ડૉ. કેયુર બ્રહ્મભટ્ટ (હેડ, આઈ.ટી.એન્જિ.), પ્રોગ્રામ કોર્ડિનેટર્સ ડૉ. વત્સલ શાહ તથા પ્રો.કનું પટેલ ઉપસ્થિત રહ્યાં હતા. સંસ્થાના પ્રિન્સિપાલ ડૉ. ઈન્દ્રજીત એન.પટેલે શુભેચ્છા પાઠવી હતી તથા જણાવ્યું હતું કે વર્તમાન ટેકનોલોજિકલ એડવાન્સમેન્ટને અનુલક્ષીને આ પ્રકારના ટ્રેનિંગ પ્રોગ્રામનું આયોજન સરાહનીય છે.

ડૉ. એસ.જી.પટેલે અધ્યાપકોનો સોસાયટલ અપલિકેશનમાં મહત્વ વિષે જણાવ્યું હતું. નિલેશ વાઘેલાએ એમઝોન વેબ સર્વિસીસ એન્ડ એપ્લિકેશન વિશે માહિતી આપી હતી. ડૉ. દર્શક ઠાકોરે એ ક્લાઉડ કમ્પ્યુટિંગ ટુલ્સ, એન્વાયરનમેન્ટ વિષે જણાવ્યું હતું. ડૉ. કેયુર બ્રહ્મભટ્ટે એમઝોન વેબ સર્વિસના એડવાન્ટેજ વિષે જણાવ્યું હતું. ડૉ. વત્સલ શાહે આભાર વ્યક્ત કર્યો હતો.

સરકારે બીવીએમને સુપર કોમ્પ્યુટર માટે પસંદ કરી

આણંદ, તા. ૨૯
ગુજરાત કાઉન્સિલ ઓન સાયન્સ એન્ડ ટેકનોલોજી (GUJCOST) દ્વારા બિરલા વિશ્વકર્મા મહાવિદ્યાલય (બીવીએમ)ના આઈટી એન્જિનિયરીંગ વિભાગ દ્વારા સુપર કમ્પ્યુટરની પ્રપોઝલ રજૂ કરવામાં આવી હતી. જેને રાજ્ય સરકારે માન્ય રાખતાં બિરલા વિશ્વકર્મા મહાવિદ્યાલયને સી-ડેક દ્વારા નિર્મિત પરમ શાવક સુપર કમ્પ્યુટર ટ્રેક સમયમાં ઉપલબ્ધ કરવામાં આવશે, તેમ બીવીએમ એન્જિનિયરીંગના વડા ડૉ. કેપુર બ્રહ્મભટ્ટે જણાવ્યું હતું. સંસ્થાના

પ્રિન્સિપાલ ડૉ. ઈંદ્રજિત એન. પટેલે જણાવ્યું હતું કે વર્તમાન સમયમાં બીવીએમ ખાતે સુપર કમ્પ્યુટર ઉપલબ્ધ થશે પછી M.Tech તથા PhDના વિદ્યાર્થીઓ તથા એકેડેમિક રિસર્ચ સ્કોલર્સ મશીન લર્નિંગ અલ્ગોરિધમ, ન્યુરલ નેટવર્ક ડેટાબેઝ, ડેટા એનાલિસિસ એન્ડ સિક્યુરીટી, સેન્સર આધારિત ડેટાબેઝ મેનેજમેન્ટ, ડીપ લર્નિંગ વિષય પર કાર્યક્રમ રીતે કામ કરી શકશે. આ ઉપરાંત બીવીએમ આઈટી એન્જિ. વિભાગ દ્વારા રિસર્ચ એન્ડ ડેવલપમેન્ટ state of art લેબ શરૂ કરવામાં આવશે.

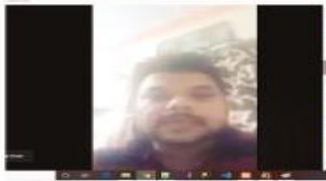
બિરલા વિશ્વકર્મા મહાવિદ્યાલય ખાતે "ઓનલાઈન સમર સ્કૂલ" નો પ્રારંભ

આણંદ, તા. ૨૩

ચારૂતર વિદ્યામંડળ સંચાલિત બિરલા વિશ્વકર્મા મહાવિદ્યાલયના ઈન્ફોર્મેશનના ટેકનોલોજી એન્જિનિયરીંગ ડિપાર્ટમેન્ટ દ્વારા કન્ટિન્યુઈન્ગ એજ્યુકેશન પ્રોગ્રામ અંતર્ગત ધોરણ-૧૨ વિજ્ઞાન પ્રવાહના મેથેમેટિક્સ ગ્રુપના વિદ્યાર્થીઓ માટે તા. ૧૮/૦૫/૨૦૨૦ થી ૨૭/૦૬/૨૦૨૦ દરમિયાન ઓનલાઈન સમર સ્કૂલનો પ્રારંભના કરવામાં આવ્યો છે. જેમાં કોમ્પ્યુટર વર્કશોપ, પ્રોગ્રામિંગ લેંગ્વેજ ફંડામેન્ટલ્સ, સી ++ લર્નિંગ પાથ, ફ્રન્ટ એન્ડ વેબ ડેવલપમેન્ટ જેવા વિષયો આવરી લેવામાં આવ્યા છે.

સંસ્થાના પ્રિન્સિપાલ ડૉ. ઈંદ્રજિત એન. પટેલે જણાવ્યું હતું કે વર્તમાન પરિસ્થિતિને અનુલક્ષીને વિદ્યાર્થીઓની ટેકનિકલ સ્કિલ્સ ડેવલપ કરવાની દિશામાં આ પ્રકારના કોર્સિસ ઉપયોગી નીવડે છે. આઈટી એન્જિનિયરીંગના વડા ડૉ. કેપુર બ્રહ્મભટ્ટે જણાવ્યું હતું કે ઓનલાઈન સમર સ્કૂલનો મૂળભૂત ઉદ્દેશ્ય ધોરણ ૧૨ વિજ્ઞાન પ્રવાહના મેથેમેટિક્સ ગ્રુપના વિદ્યાર્થીઓને કોમ્પ્યુટર ટેકનોલોજીનું બેઝિકથી એડવાન્સ લેવલ, કોમ્પ્યુટર હાર્ડવેર અને સોફ્ટવેર, ફંડામેન્ટલ ઓફ વેબસાઈટ ડિઝાઈન, અલગ અલગ પ્રોગ્રામિંગ લેંગ્વેજ દ્વારા લોજીક ડિઝાઈનથી રીઅલ ટાઈમ એપ્લિકેશન પ્રોગ્રામિંગ સુધી ટ્રેનિંગ વિષે માહિતગાર કરવાનો છે.

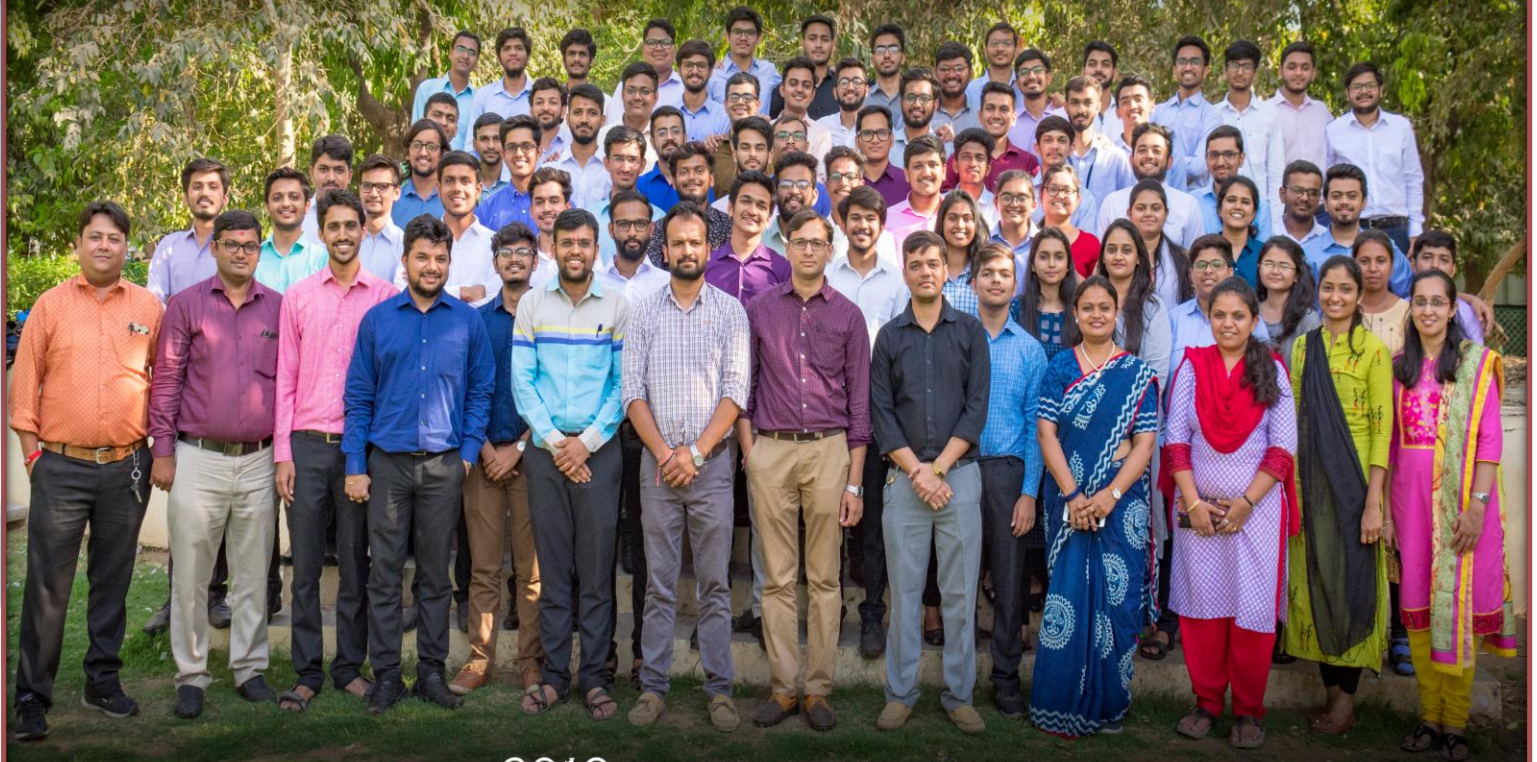
ઉપરોક્ત ઓનલાઈન સમર સ્કૂલમાં કમ્પ્યુટર વર્કશોપ અતર્ગત વિન્ડોઝ તથા લીનક્સ પ્લેટફોર્મ, વર્ચ્યુઅલ મશીન, ગુગલ ટુલ્સ, કમ્પ્યુટર પ્રોગ્રામિંગ સી પ્રોગ્રામિંગના ફંડામેન્ટલ્સ,



ડેટા ટાઈપ, ઓપરેટર્સ, ડિસિઝન મેકિંગ એન્ડ લૂપિંગ, એરેઝ વિષે સ્ટાઈલ શીટ, ગુગલ સાઈટ વિષે તજજ્ઞો રસપ્રદ માહિતી પૂરી પાડશે.

ઓનલાઈન સમર સ્કૂલમાં ૧૦૦ થી વધુ વિદ્યાર્થીઓ ગુગલ મીટ પ્લેટફોર્મ દ્વારા જોડાયા હતા. ઈવેન્ટને સફળ બનાવા માટે ફેકલ્ટી કોર્ડિનેટર પ્રો. બીજલ દલવાડી, પ્રો. ધર્મશ પટેલ તથા સ્ટુડન્ટ કોર્ડિનેટર્સ હિમાંશુ ઠાકર, જૈમિન સિમ્પી તથા અન્ય વિદ્યાર્થીઓએ ઉત્સાહપૂર્વક કામગીરી હાથ ધરી હતી. ચારૂતર વિદ્યામંડળના અધ્યક્ષ ભીખુભાઈ પટેલ તથા અન્ય હોદ્દેદારોએ શુભેચ્છા વ્યક્ત કરી હતી.

BIRLA VISHVAKARMA MAHAVIDYALAYA ENGINEERING COLLEGE
(AN AUTONOMOUS INSTITUTION)
INFORMATION TECHNOLOGY DEPARTMENT



2019 PASSING OUT BATCH

WITH BEST WISHES FROM IT DEPARTMENT



Report Created By:

Prof. Priyank Bhojak
(IT Department)

Guided By:

Dr. Keyur Brahmhatt
(Head, IT Department)

INFORMATION TECHNOLOGY DEPARTMENT
Birla Vishvakarma Mahavidyalaya

Birla Vishvakarma Mahavidyalaya Engineering College

Information Technology Department

Report of Student Activities for the academic year 2014-15

Title of the Activity (Expert talk / Workshop / Industry Visit)	Coordinators	Date/Duration	Resource Person	Targeted Audience
IT Awareness (Expert Talk)	Prof. Zankhana Shah	16/09/2014	Mr. J.K Palit Mr. Pooja Pandya	51
Augmented Reality(Expert Talk)	Prof. Zankhana Shah	20/09/2014	Mr. Harshit Lalpura	123
Hands On Experience on Routers & Switches(Expert Talk)	Prof. Zankhana Shah Prof. Chintan Mahant	26/09/2014	Mr. Rajesh Rangani	64
BSNL Ahmadabad Industrial Visit	Prof. Nilesh Prajapati Prof. Keyur Brahmhatt Prof. Bijal Dalwadi Prof. Chintan Mahant	27/09/2014	--	37
Linux Installation & Fundamentals(Workshop)	Prof. Kanubhai Patel Prof. Vatsal Shah	09/10/2014	Prof Rahul Goradia	27
Android Application Development(Workshop)	Prof. Nilesh Prajapati Prof. Keyur Brahmhatt	11/02/2015	Prof. Nilay Ganatra	
Web development(Workshop)	Prof. Vishal Polara Prof. Bijal Dalwadi	11/03/2015	Mr. Amit Patel	
Computational Complexity of Algorithm(Workshop)	Prof. Kanubhai Patel Prof. Vatsal Shah	17/03/2015	Prof Amit Thakkar	30
Soft -Tech(Workshop)	Prof. Krupali Shah Prof. Samip Patel	31/03/2015	Mrs. Sejal Christian	18
Industry Approach towards software Testing(Workshop)	Prof. Zankhana Shah Prof. Nilesh Prajapati	26/06/2015	Mr. Pankaj Shah	27

Birla Vishvakarma Mahavidyalaya Engineering College

Information Technology Department

Report of *Student Activities* for the academic year **2015-16**

Title of the Activity (Expert talk / Workshop / Industry Visit)	Coordinators	Date/Duration	Resource Person	Targeted Audience
I phone(Workshop)	Prof. Nilesh Prajapati Prof. Samip Patel	14/08/2015	Mr. Kailash Suthar	26
“Engineering @Industry Perspective” Expert Talk	Prof. Zankhana Shah Prof. Nilesh Prajapati	30-10-2015		44
IOS for Beginner(Workshop)	Prof. Nilesh Prajapati Prof. Keyur Brahmhatt	22/02/2016	Mr. Prakash Donga Mr. Harit Kothari	36
Raspberry Pi for beginners	Prof. Kanubhai Patel Prof. Vatsal Shah	19/03/2016	Prof Rahul Goradia	26
PHP for Beginners	Prof. Keyur Brahmhatt Prof. Chintan Mahant	11/04/2016	Mr. fenil Parikh	
Python (Workshop)	Prof. Vishal Polara Prof. Nikita Patel	30/04/2016	Mr. Jaimin Patel	31

Birla Vishvakarma Mahavidyalaya Engineering College

Information Technology Department

Report of Student Activities for the academic year 2016-17

Title of the Activity (Expert talk / Workshop / Industry Visit)	Coordinators	Date/Duration	Resource Person	Targeted Audience
Big-Data Analytics	Prof. V. M. Agrawal Prof. B. A. Tanawala	17/09/2016	Mr. Raj Patel	64
BSNL Ahmadabad Industrial Visit	Prof. Zankhana Shah Prof. Keyur Brahmhatt Prof. Samip Patel Prof. Nikita Patel	27/09/2016	-----	54
Project Poster Presentation	Prof. Keyur Brahmhatt Prof. Bijal Dalwadi	20/10/2016	Mr. Hardik Patel (Jury) Mr. Tejas Patel (Jury)	81
Seminar on Digital India	Prof. Prachi Shah Prof. Priyank Bhojak	06/01/2017	-----	----
Visit to 8th Vibrant Gujarat Global Summit	Prof. Keyur Brahmhatt Prof. Nikita Patel	12/01/2017	-----	35
Expert talk on Virtual Reality	Prof. Zankhana Shah	04/02/2017	Mr. Harshit Lalpura	124

BIRLA VISHVAKARMA MAHAVIDYALAYA

(An Autonomous Institution)

Managed by Charutar Vidyamandal

**ONLINE
TEACHING - LEARNING
DURING COVID - 19
LOCKDOWN**

by IT Department



NPIU



CHARUTAR VIDYAMANDAL

CVM was established in the year 1945 by Shri Bhaikaka and Shri Bhikhubhai as a charitable trust with a prime objective of rural development through education to bring about the social awakening, social upliftment, and enrichment. In the 1990s. In 1994, Dr. C L Patel took over the reigns of CVM as the chairman, and through his dynamic leadership, missionary zeal and visionary outlook. CVM rejuvenated the ongoing education system but added a modern education campus at New Vallabh Vidyanagar Recently, Er. Bhikhubhai Patel took a charge. He is a visionary personality with a goal to enhance the quality of education using recent technological advancements. It runs 48 institutions from KG to Post Doctorate, almost in all branches of education and catering more than 50,000 students from 21 states and 12 countries across the world

ABOUT DEPARTMENT

The Departments of Information Technology is one of the most efficient departments of Institute. The departments has highly qualified, well experienced and dedicated faculty members. The department is equipped with advanced instruments and equipment for research facilities. Experts from leading industries and educational institutes are invited frequently for guest lectures on recent developments for the benefit of students and staff.



OBJECTIVES

The coronavirus pandemic brought the world to a standstill, exposing the potential risks of living in mega cities of the future. Series of webinars have been organized in a view to allow civil engineers to anticipate and mitigate unprecedented events as they design and reimagine the smart and resilient infrastructure for present and future. The webinar have been planned to provide exposure to the faculty and students of about the future Technologies. The webinar included five technical talks by industry experts.



INSTITUTE GLANCE

Birla Vishvakarma Mahavidyalaya Engineering College was established in 1948 from donations made by the Birla Education Trust on the behest of Sardar Vallabhbhai Patel, the first Home Minister of independent India. Functioning under the umbrella of Charutar Vidya Mandal (CVM), BVM is the first engineering college of Gujarat state established way back in 1948. BVM is the first Autonomous Engineering institute of Gujarat to obtain academic autonomy for all its UG & PG programs, by University Grant Commission (UGC). More than 20000+ engineers have graduated from BVM College engaged in varieties of field across the globe. Institute offers 08 B.Tech and 08 M.Tech degree courses. The college is affiliated to the Gujarat Technological University. It is a matter of pride, that the Institute has successfully completed prestigious World Bank Assistance Project, TEQIP-II of INR 10 crores and further has been continuing with TEQIP-III grant of INR 7 crores. Majority programs of BVM are awarded accreditation by NBA-AICTE.



Er. Bhikhubhai Patel

CHAIRMAN, CVM

CVM is one of India's leading NGO and non-profitable charitable organization working in the field of education founded to cater education to the rural mass of Gujarat. In this age of the Global Village, when global interdependence and competition are upon us, CVM is trying to educate and train our youngsters to keep up and keep pace with the best and the brightest in the world. CVM is offering all the programmes of study appropriate to the modern age, and maintaining high standards of education. CVM is always supporting all the activities for Students and faculties' development. In this COVID-19 Situation, our all institutes are trying best by organizing such webinars so that students and faculties get benefitted and enhanced their knowledge.

Dr. Indrajit Patel

PRINCIPAL, BVM

The COVID-19 pandemic has already had tremendous impacts on the Education sector also looking to the conditions to encourage Research, Innovation & Globalization, BVM is continuously involved in organizing seminars, workshops and Webinars at various platforms. Different Departments and Chapters like ISTE, IE (I), SSIP, IEEE, Training and Placement Cell, PG Research Centers are set for the constant development and up gradation of the education at the Institute on digital platform in this situation. BVM is constantly taking step towards development of faculties and industry academia partnerships.



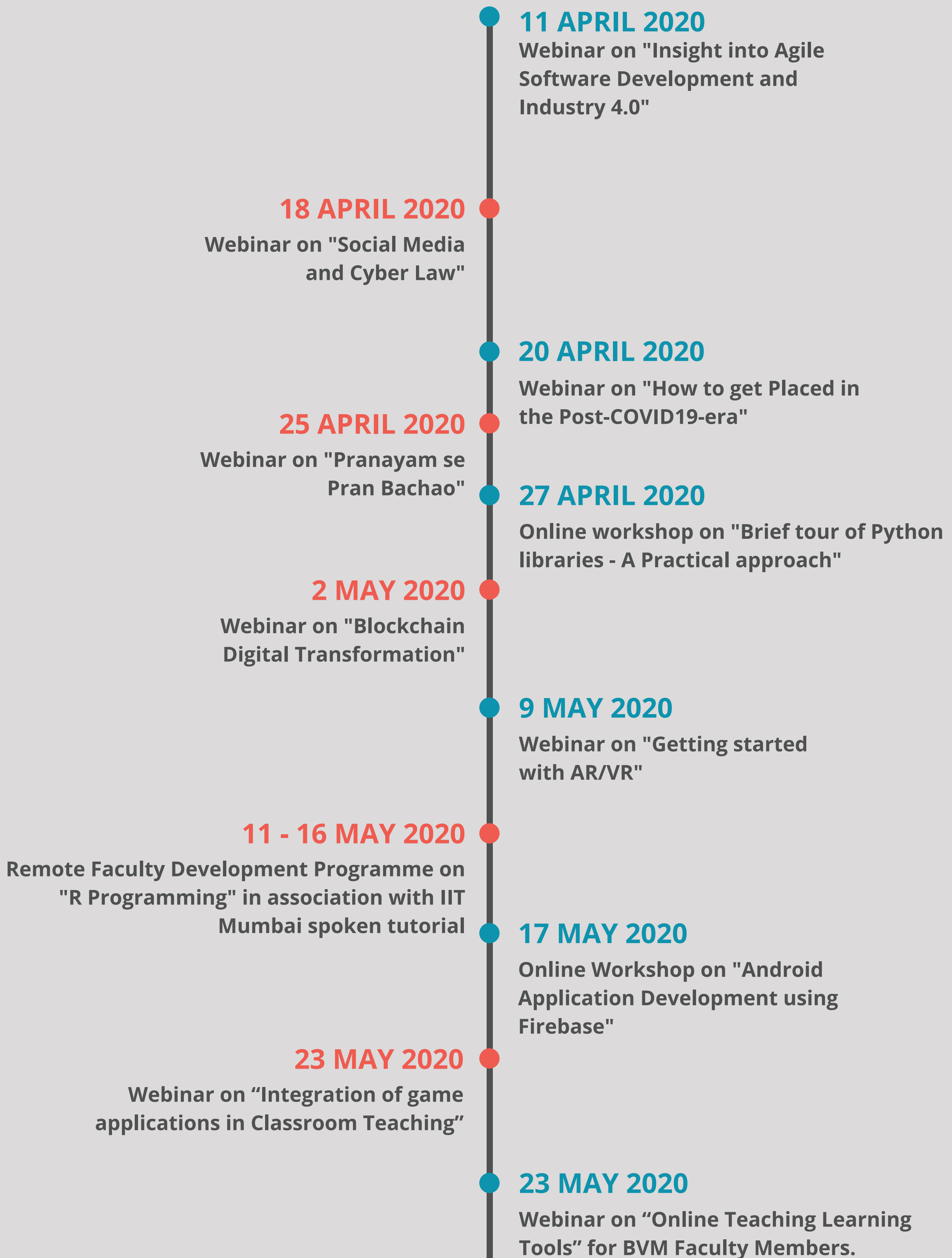
Dr. Keyur N. Brahmabhatt

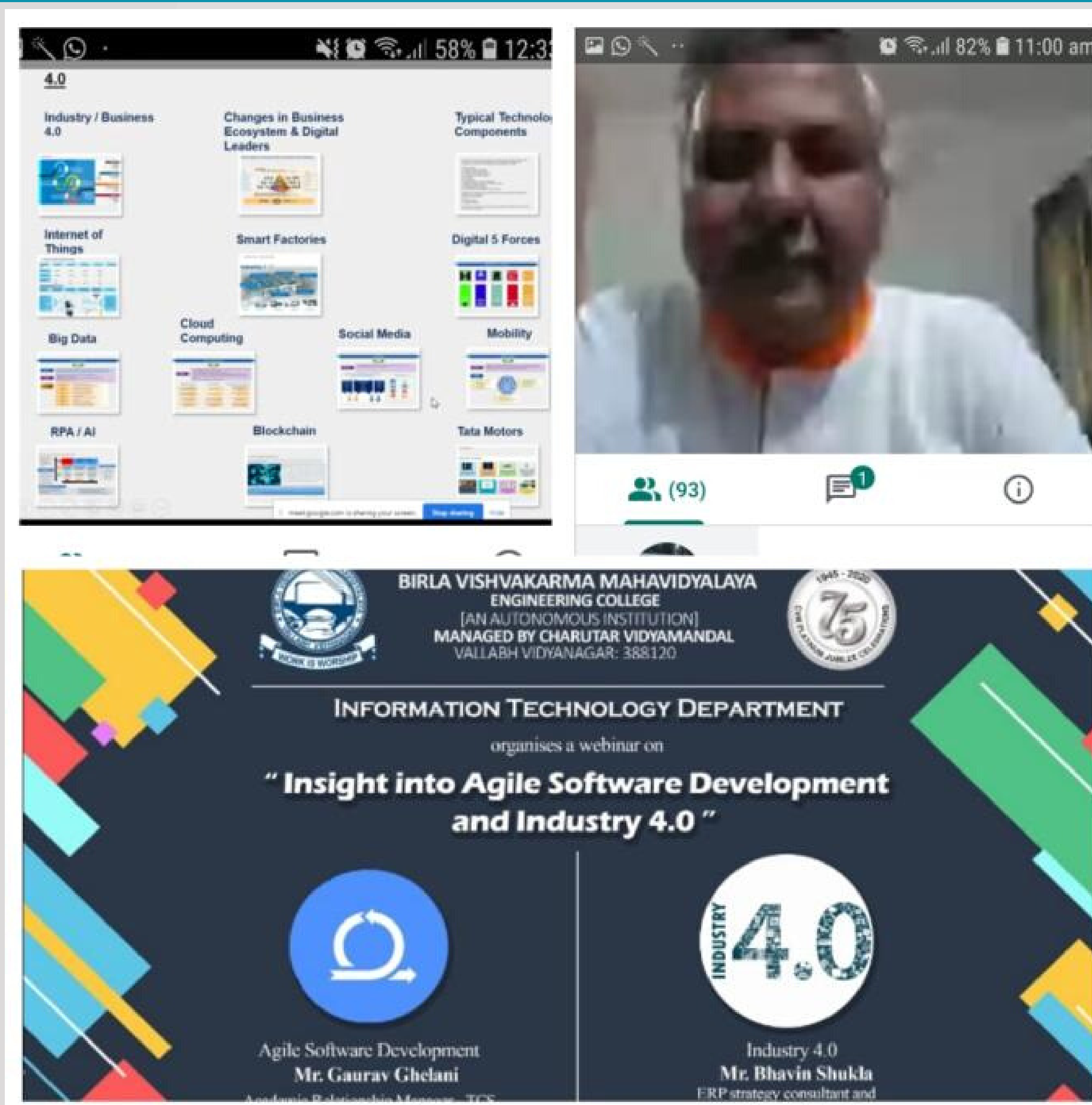
HEAD, IT DEPARTMENT

As the COVID-19 Pandemic runs its course, Governments are implementing measures that limit the number of people congregating in public places. Such measures have disrupted the normal functioning of colleges and universities so to make this Quarantine period more effective at the IT Department, BVM Engineering College we have organized many webinars, online workshops and FDP. We have invited eminent speakers in almost all the thrust area suggested by AICTE and tried to cover webinars as per the need of the IT Industries. Let's join together in this new journey of digital teaching learning so we can nurture the youth for their bright future.

AT A GLANCE

ACTIVITES





WEBINAR

INSIGHT INTO AGILE SOFTWARE DEVELOPMENT AND INDUSTRY 4.0

BY

MR.GUARAV GHELANI & MR.BHAVIN SHUKLA (TCS BOMBAY)

On 11 April 2020

Total Participants: 128

Information Technology department of BVM Engineering College had organized Webinar on “Insight into Agile Software Development and Industry 4.0” on 11/04/2020. There were total 128 Participants, who attended the webinar. Both the experts Mr.Gaurav Ghelani and Mr.Bhavin Shukla are from TCS, Mumbai. There were two sessions. In first session the expert explain the working of Agile software and how it can be useful to developing the project. In second session the expert explained about the usefulness of industry 4.0 in current scenario in the world. The webinar was coordinated by Dr.Zankhana Shah, Prof.Chintan Mahant, Prof.Vishal Polara. Dr.Keyur Brahmhatt was Convener of this webinar.



WEBINAR

SOCIAL MEDIA AND CYBER LAW

BY

DR. ANAND KUMAR TRIPATHI (DEAN, SCHOOL OF SECURITY LAW, POLICY & GOVERNANCE, RAKSHA SHAKTI UNIVERSITY)

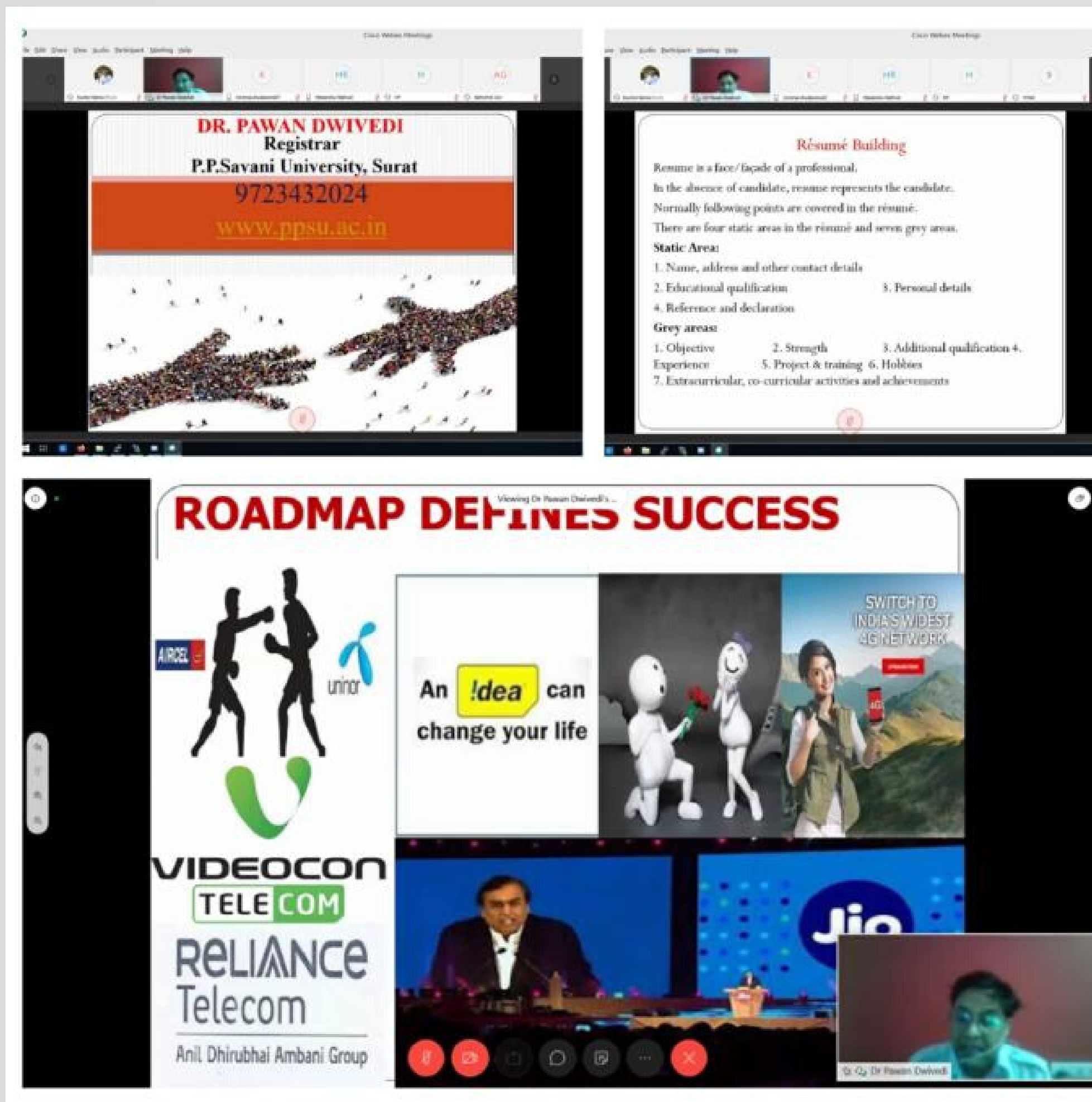
On 18 April 2020

Total Participants: 227

He started with introduction of Cyber Law and social media environment. Then he discussed about Different Cyber Laws, need of Cyber Laws, IT act 2000, International Cyber Law, importance of cyber law in present era. He also explained IT Act, Penal Code and the Disaster Management Act to tackle misinformation in COVID19

Contents

- Cyber Laws & Criminal Laws (I.P.C., Cr.P.C. & IEA)
- Constitutional Law & Public Interest Litigation
- Human Right & Phishing Emails
- Criminal Justice System & Impact of Cybercrime on Society
- Criminology & Penology
- Online Scams, Social Networking and Cyber Crime
- IT Act, Penal Code and the Disaster Management Act to tackle misinformation for COVID19



WEBINAR HOW TO GET PLACED IN THE POST- COVID19-ERA

BY

**DR. PAWAN DWIVEDI (REGISTRAR, PP SAVANI
UNIVERSITY, SURAT)**

On 20 April 2020

Total Participants: 173

TPC IT Department conducted a Webinar on 20/04/2020 at 5 PM on How to get Placed in the Post-COVID19-era in which Dr. Pawan Dwivedi was our Expert Speaker. 173 students registered for the same. The webinar gave students information about the possible scenario of the corporate world and how we as a fresher would have to get adjusted to it to succeed. The speaker also talked about different career paths one can go for after graduation and talked in length about how a Post-COVID19-era of Corporate Life will look like. Our TPO Prof. Mehul Patel also attended the webinar and thanked our esteem Speaker for imparting such wisdom and knowledge on us.



WEBINAR

PRANAYAM SE PRAN BACHAO

BY

**DR. KUSH PANCHAL (INTERNATIONALLY
ACCLAIMED CELEBRITY YOGA COACH)**

On 25 April 2020


Total Participants: 140

Information Technology department of BVM Engineering College had organized Webinar on “Pranayam se Pran Bachao” on 25/04/2020. There were total 140 Participants, who attended the webinar. The experts Dr.Kuch Panchal who is Internationally Acclaimed Celebrity Yoga Coach from Mumbai. In the session first the expert saw some basic warm exercises that we have to do before starting of pranayam. Then he saw some pranayam live and explained how to do this pranayam like anulom-vilom,kapal bhati,bramri etc. The webinar was coordinated by Dr.Nilesh Prajapati,Prof.Chintan Mahant. Dr.Keyur Brahmbhatt was Convener of this webinar.

INFORMATION TECHNOLOGY DEPARTMENT
organises a workshop on


“Brief tour of Python Libraries -A Practical Approach”



by



MS. VINITA SHAH
ASSISTANT PROFESSOR,
G. H.PATEL COLLEGE OF ENGINEERING AND TECHNOLOGY,
VALLABH VIDYANAGAR

Time : 4:00 p.m.
DATE : 27TH APRIL 2020 (MONDAY)
PLATFORM : GOOGLE MEET



 bvm_engineering BVMEngineeringCollege

Python Libraries

Python library is a collection of functions and modules that allows you to perform many actions without writing your code.

A Python library is a reusable chunk of code that you may want to include in your programs/ projects.

Here a 'library' locally describes a collection of modules.

Vinita Shah is presenting

```

1 from matplotlib import pyplot as plt
2
3 plt.bar([0.25,1.25,2.25,3.25,4.25],[50,40,70,80,30])
4
5 plt.bar([1.75,2.75,3.75,4.75],[80,20,20,50,60])
6
7 plt.legend()
8
9 plt.xlabel('Days')
10 plt.ylabel('Distance (km)')
11 plt.title('Information')
12
13 plt.show()

```

ONLINE WORKSHOP

BRIEF TOUR OF PYTHON LIBRARIES: A PRACTICAL APPROACH

BY

**PROF. VINITA SHAH (ASSISTANT PROFESSOR, GCET,
VVNAGAR)**

On 27 April 2020

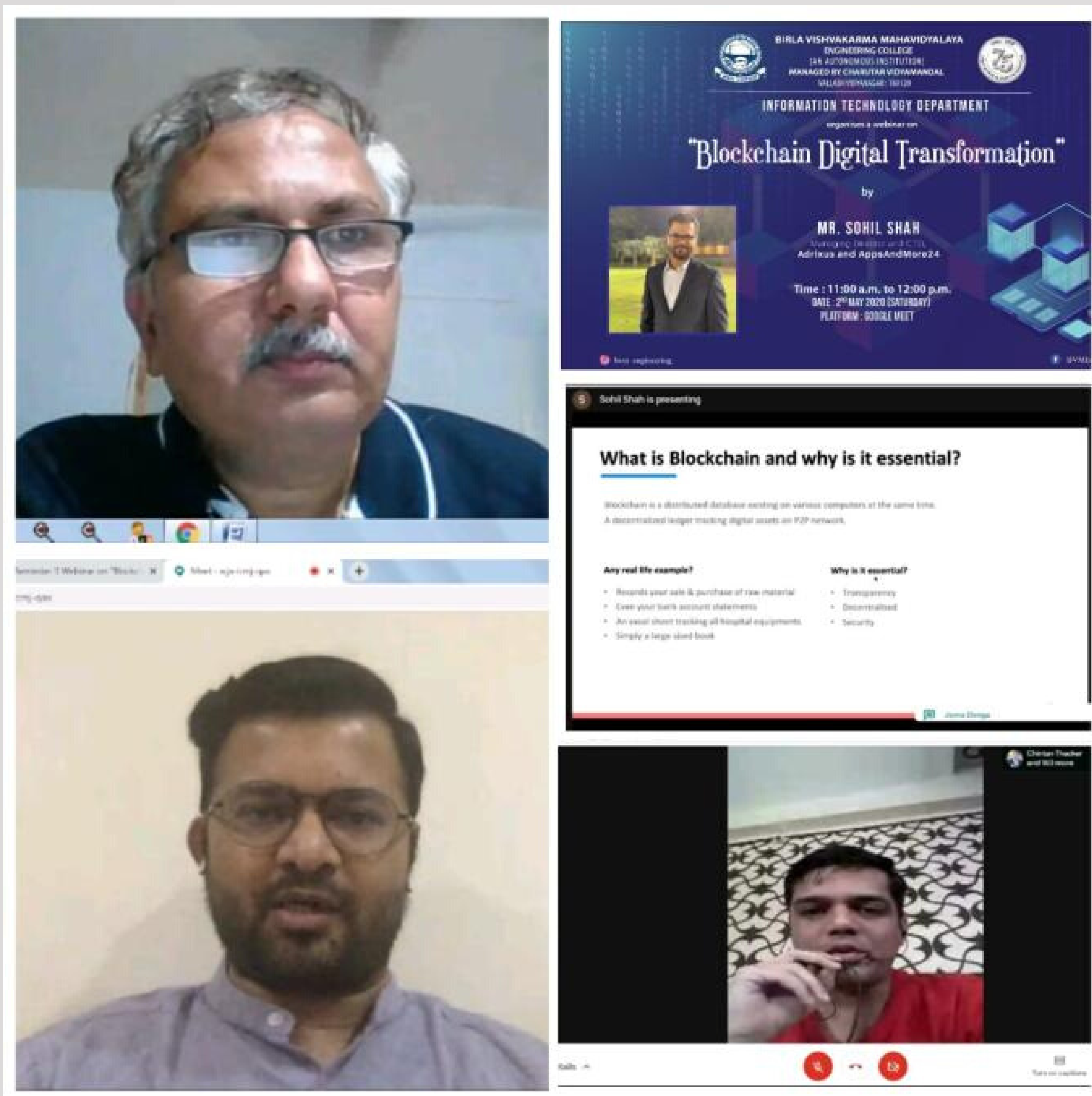
Total Participants: 60

Information Technology department of BVM Engineering College had organized an online workshop on “Brief tour of Python libraries - A Practical approach” on 27th April, 2020 from 4:00 pm to 6:00 pm. There were total 60 participants, who attended the workshop. The expert invited was from GCET, VVNagar.

The topics that were covered in the workshop are as below:

- Introduction of Python Libraries
- Python real time applications
- Core libraries - Numpy, Operations of Numpy, Pandas
- Data Visualization libraries
- Demo of implementation of various programs using Python Libraries.

The motive of this workshop was that the students will be able to build any real time application in domain of Data science, Machine learning, Computer Vision, NLP etc.



WEBINAR

BLOCKCHAIN DIGITAL TRANSFORMATION

BY

MR. SOHIL SHAH (MD AND CTO, ADRIXUS AND APPS AND MORE24)

On 2 May 2020

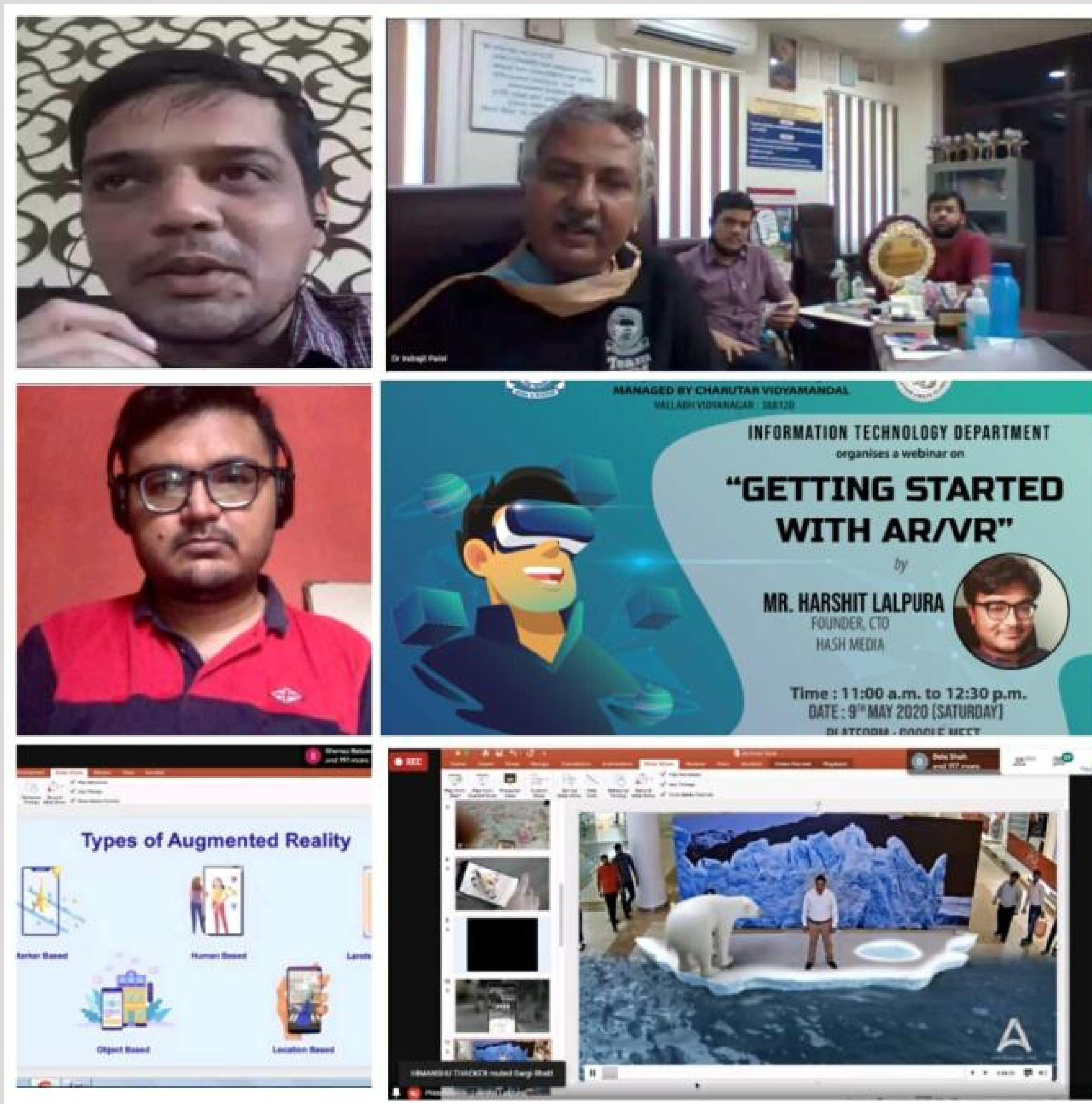
Total Participants: 180+

Information Technology department of BVM Engineering College had organized webinar on “Blockchain Digital Transformation” for students and faculties on 2nd May, 2020 from 12:15pm to 1:15pm on Google-Meet platform. The expert was invited from Adrixus industry.

The topics that were covered in the webinar are as below:

- Brief about Blockchain, difference between private and public blockchain.
- Introduction about blocks, transactions, private key & addresses.
- Blockchain and why it matters to digital transformation
- Applications of Blockchain - The need of digital transformation

The motive of this webinar was that the participant can create a permanent, public, transparent ledger system for compiling data on sales, tracking digital use and payments to content creators.



WEBINAR

GETTING STARTED WITH AR/VR

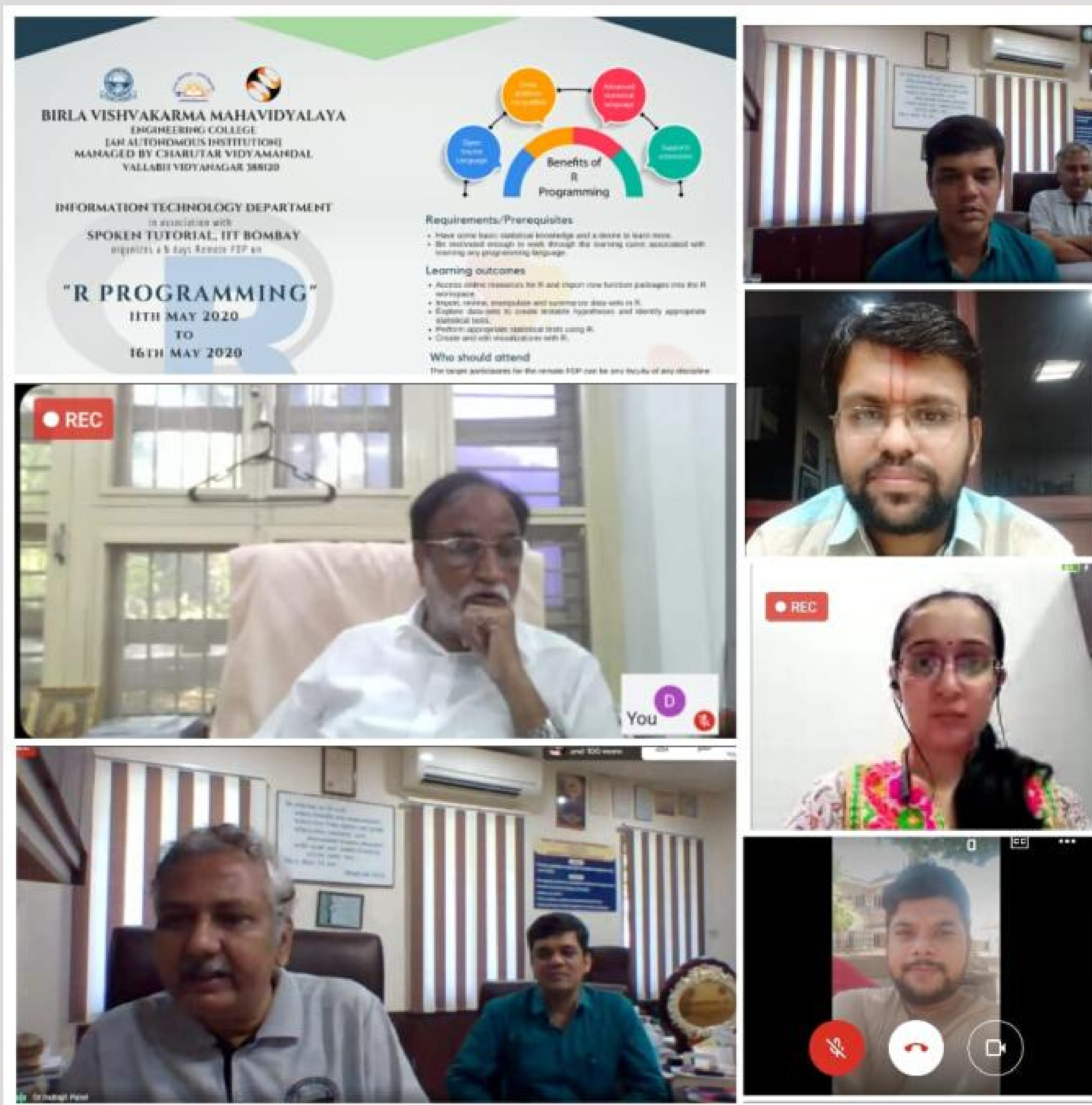
BY

MR. HARSHIT LALPURA (FOUNDER, CTO OF HASH MEDIA)

On 9 May 2020

Total Participants: 200

Information Technology department of BVM Engineering College had organized a Webinar on “Getting started with AR/VR” on 09/05/2020. There were total 200 Participants, who attended the webinar. The expert of the webinar was Mr. Harshit Lalpura. The webinar focused on the emerging sector of Augmented and Virtual Reality and their widespread applications in different sectors.



ONE WEEK REMOTE FDP

R-PROGRAMMING

IN ASSOCIATION WITH
SPOKEN TUTORIAL, IIT BOMBAY

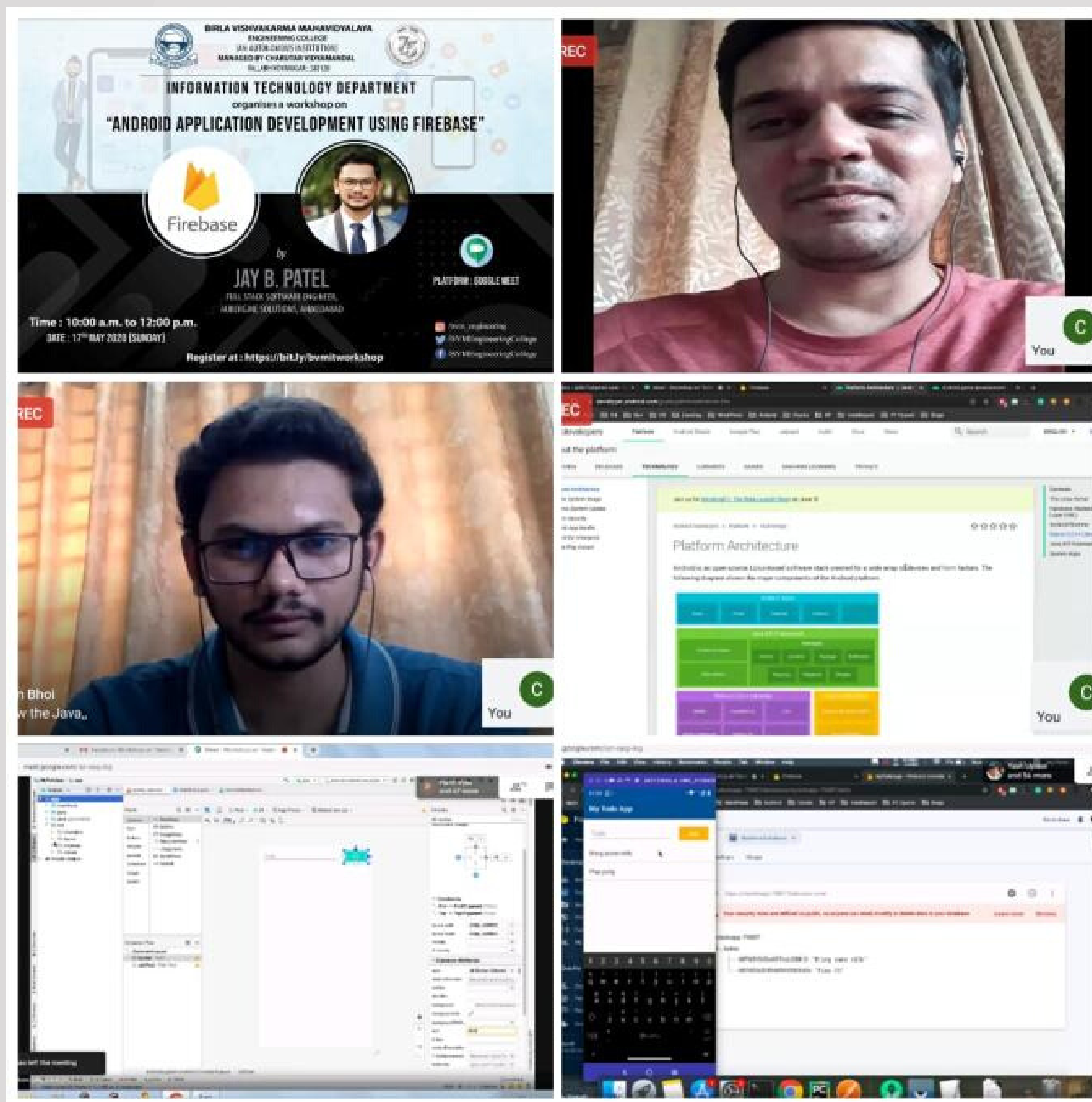
11 - 16 May 2020

Total Participants: 265

IT department of BVM Engineering College organized a one-week remote FDP on "R Programming" during 11 to 16 May 2020 in association with IIT Bombay spoken tutorial. 265 participants attended from all over the country. Inaugural function was presided by Chairman CVM Er. Bhikhubhai Patel and congratulated team BVM. Dr. Indrajit Patel and Dr Keyur Bhrambhhatt shared their views on FDP.

At the end of this FDP, Learner was able to:

- List motivation for learning a programming language
- Access online resources for R and import new function packages into the R workspace
- Import, review, manipulate and summarize data-sets in R
- Perform appropriate statistical tests using R
- Explore data-sets to create testable hypotheses and identify appropriate statistical tests
- Create and edit visualizations with R



ONLINE WORKSHOP

ANDROID APPLICATION DEVELOPMENT USING FIREBASE

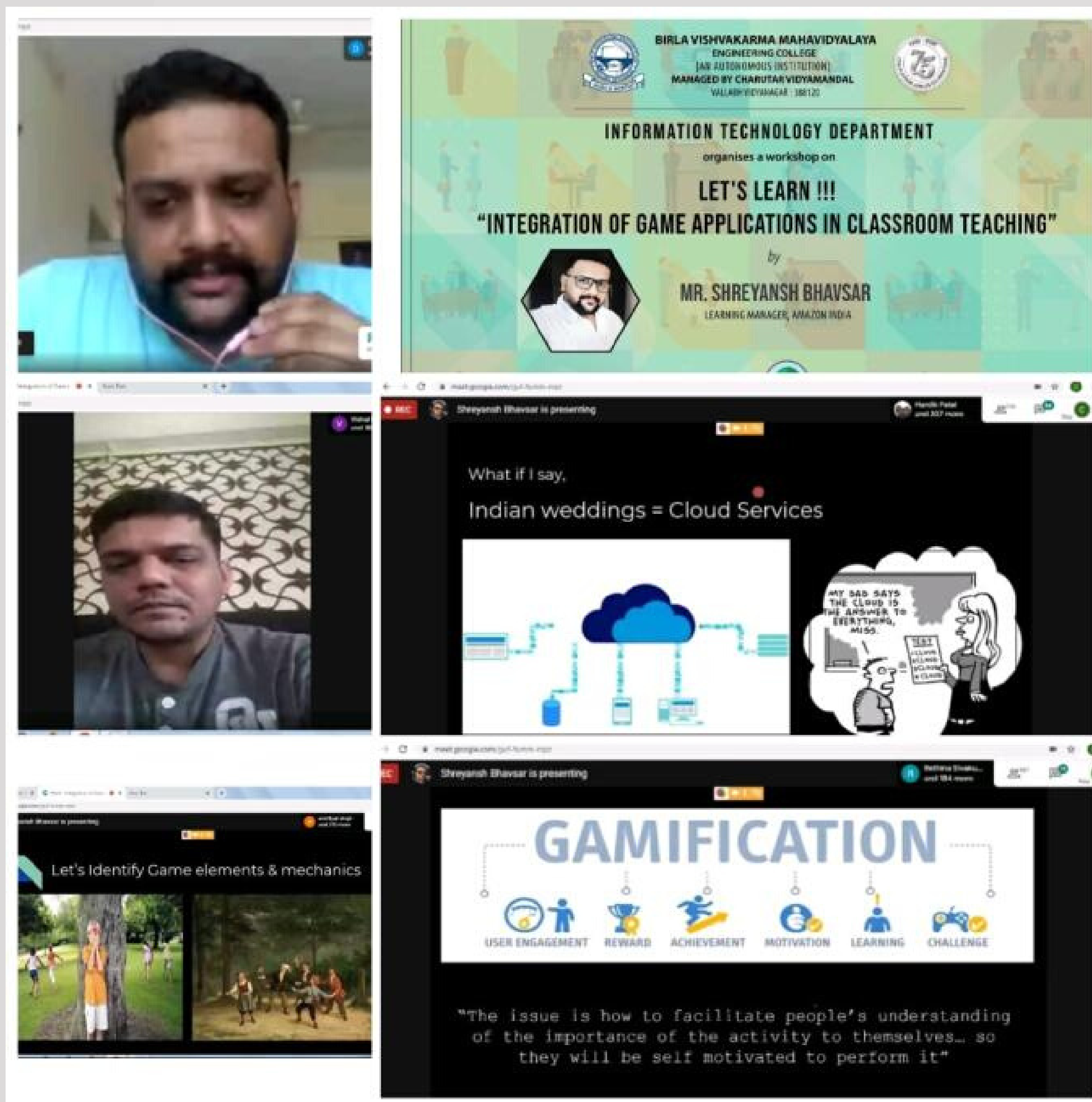
BY

**MR. JAY PATEL (FULL STACK SOFTWARE ENGINEER,
AUBERGINE SOLUTIONS)**

On 17 May 2020

Total Participants: 70

Information Technology department of BVM Engineering College had organized and Online Workshop on “Android Application Development using Firebase” on 17/05/2020. There were total 70 Participants, who attended the webinar. The expert of the online workshop was Mr. Jay Patel. The workshop focused on how to build an Android Application using Firebase and the different functionalities of firebase were explored and explained.



WEBINAR

INTEGRATION OF GAME APPLICATIONS IN CLASSROOM TEACHING

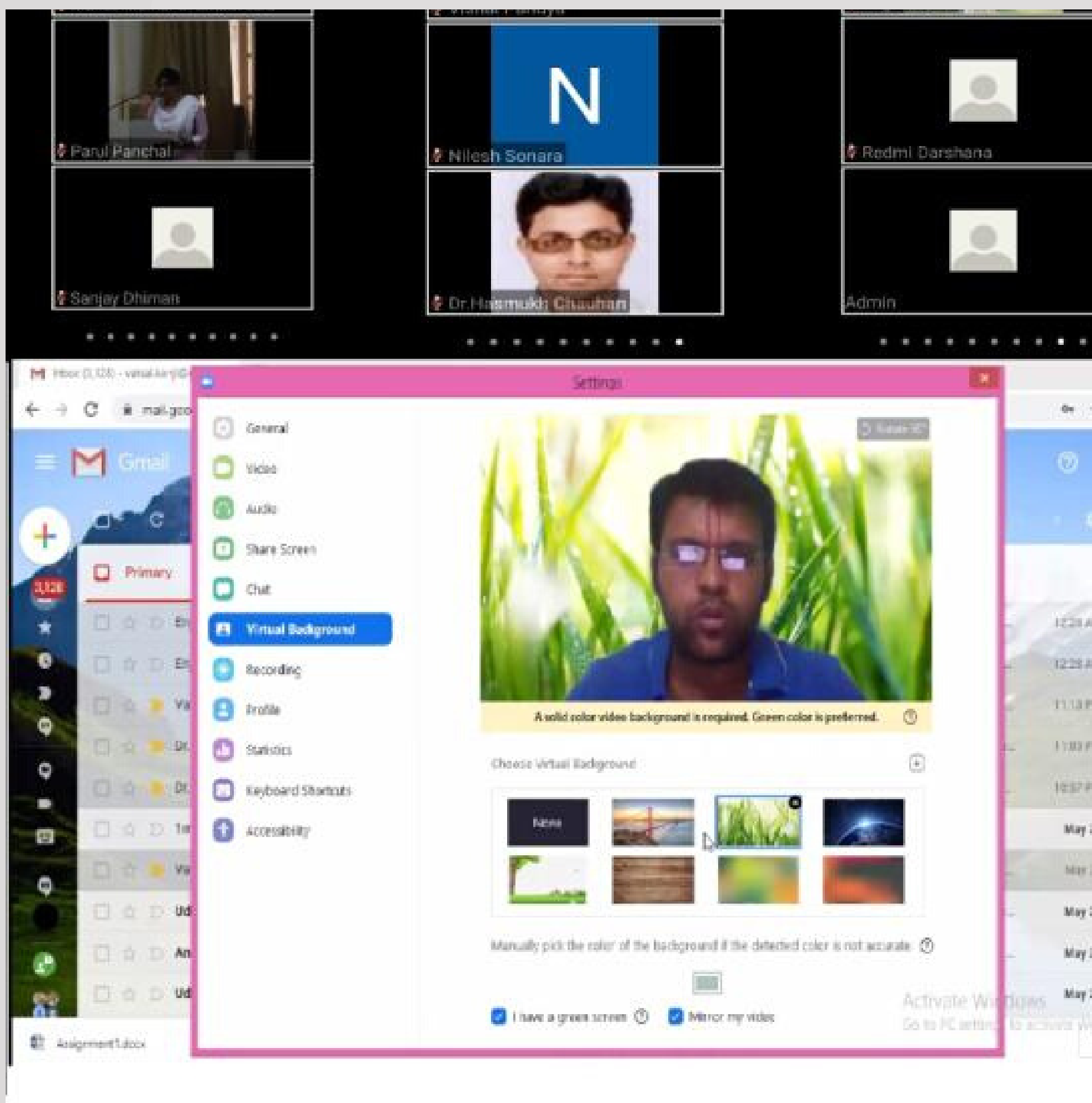
BY

**MR. SHREYANSH BHAVSAR (LEARNING MANAGER,
AMAZON INDIA)**

On 23 May 2020

Total Participants: 200

Information Technology department of BVM Engineering College had organized a Webinar on “Integration of game applications in Classroom Teaching” on 23/05/2020. There were total 200 Participants, who attended the webinar. The expert of the webinar was Mr. Shreyansh Bhavsar. The webinar focused on the the importance of gaming in classroom teaching and it’s positive impact on learning.



WEBINAR

ONLINE TEACHING LEARNING TOOLS

BY

DR. VATSAL SHAH (BVM ENGINEERING COLLEGE)

On 23 May 2020

Total Participants: 60

Information Technology department of BVM Engineering College had organized a Webinar on “Online Teaching Learning Tools” on 23/05/2020. There were total 60 participants, who attended the webinar. The expert of the webinar was Dr. Vatsal Shah. The webinar was for faculties of BVM and they were taught the different online teaching learning tools which would enable them to conduct online classes and lectures.

PRESS NOTES

બિરલા વિશ્વકર્મા મહાવિદ્યાલય ખાતે “R પ્રોગ્રામિંગ” વિષયે ફેક્સ્ટી ડેવલપમેન્ટ પ્રોગ્રામ

આણંદ, તા. ૧૩

આરૂતર વિદ્યામંડળ સંચાલિત બિરલા વિશ્વકર્મા વિદ્યાલયના ઈન્ફોર્મેશન ટેકનોલોજી ડિપાર્ટમેન્ટ તથા સ્પોકન ટ્યુટોરિઅલ I.I.T (Indian Institute Of Technology) મુંબઈના સંયુક્ત ઉપક્રમે R પ્રોગ્રામિંગ વિષય પર ૬ દિવસીય ફેક્સ્ટી ડેવલપમેન્ટ પ્રોગ્રામનો પ્રારંભ કરવામાં આવ્યો હતો. જેનો મૂળભૂત ઉદ્દેશ્ય સમગ્ર દેશમાંથી ભાગ લઈ રહેલા ૨૬૦ થી વધુ અધ્યાપકોને R લેન્ગ્વેજ બેઝિક્સ, ઓનલાઈન રીસોર્સીસ એક્સેસ, R લેન્ગ્વેજ વર્કસ્પેસ માટે નવા ફંક્શન પેકેજીસ, ઈમ્પોર્ટ ડેટા સેટ મેનિપ્યુલેશન એન્ડ સમરાઈઝેશન, હાઈપોથિસિસ ટેસ્ટિંગ, સ્ટેટિસ્ટિકલ ટેસ્ટિંગ તથા R પ્રોગ્રામિંગ વિઝ્યુઅલાઈઝેશન વિષે માહિતગાર કરવાનો છે. આ પ્રસંગે મુખ્ય અતિથિ તરીકે આરૂતર વિદ્યામંડળના અધ્યક્ષ એન્જિનીયર ભીખુભાઈ પટેલ, સંસ્થાના પ્રિન્સિપાલ ડૉ. ઈન્દ્રજીત એન. પટેલ તથા ડૉ. કેયુર બ્રહ્મભટ્ટ (હેડ, આઈ.ટી. એન્જી.) ઓનલાઈન ગુગલ મીટ પ્લેટફોર્મ દ્વારા ઉપસ્થિત રહ્યાં હતા.

આ પ્રસંગે ભીખુભાઈ પટેલે જણાવ્યું હતું કે વર્તમાન પરિસ્થિતિમાં COVID-19 ને અનુલક્ષીને ઓનલાઈન લર્નિંગ પાયાની જરૂરિયાત છે તથા રાષ્ટ્રના ઘડતરમાં શિક્ષણ ખુબ અગત્યનો ભાગ ભજવે છે. ફેક્સ્ટી ડેવલપમેન્ટ પ્રોગ્રામ માટે અભિનંદન પાઠવ્યા હતા.

સંસ્થાના પ્રિન્સિપાલ ડૉ. ઈન્દ્રજીત એન. પટેલે જણાવ્યું હતું કે વર્તમાન લોકડાઉન સમયમાં ઓનલાઈન લર્નિંગ પ્લેટફોર્મમાં ટેકનિકલ એજ્યુકેશન પાયાની ભૂમિકા ભજવે છે. ઉપરાંત તેમણે R પ્રોગ્રામિંગ લેન્ગ્વેજ ફેક્સ્ટી ડેવલપમેન્ટ



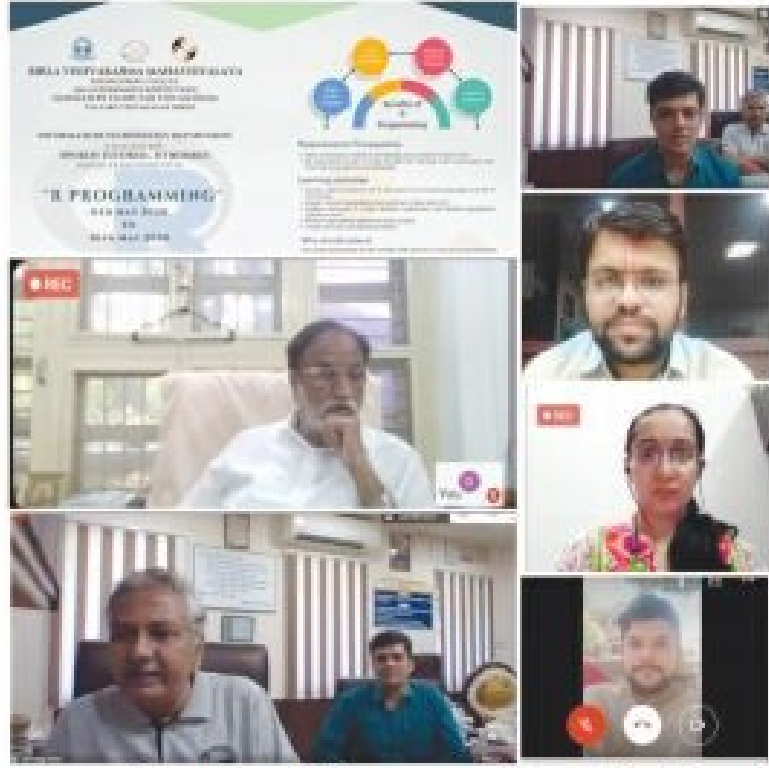
પ્રોગ્રામ માટે બી.વી.એમ.ની રિમોટ સેન્ટર તરીકે પસંદગી થવા માટે I.I.T (Indian Institute Of Technology) મુંબઈનો આભાર વ્યક્ત કર્યો હતો.

આ પ્રસંગે ડૉ. કેયુર બ્રહ્મભટ્ટે R સ્ટુડિયો ઈન્સ્ટોલેશન, ડેટા ફેમ્સ, વર્કિંગ ડિરેક્ટરી, ઈન્ટેક્સિંગ સ્લાઈસસીન્ગ વિષે જણાવીને R પ્રોગ્રામિંગના એડવાન્સેજ વિષે ચર્ચા કરી હતી.

ફેક્સ્ટી ડેવલપમેન્ટ પ્રોગ્રામને સફળ બનાવવા માટે પ્રોગ્રામ કોર્ડિનેટર ડૉ. વત્સલ શાહ તથા કો-કોર્ડિનેટર્સ પ્રો. પ્રિયંક ભોજક તથા પ્રો. પ્રાચી શાહે ઉત્સાહપૂર્વક કામગીરી હાથ ધરી હતી.

બિરલા વિશ્વકર્મા મહાવિદ્યાલય ખાતે 'આર-પ્રોગ્રામિંગ' વિષય પર ફેકલ્ટી ડેવલપમેન્ટ પ્રોગ્રામનો પ્રારંભ

આંધ્રાપ્રદેશ, તા. ૧૩
ચારુતર વિદ્યામંડળ સંચાલિત બિરલા વિશ્વકર્મા મહાવિદ્યાલય ના ઈન્ફોર્મેશન ટેકનોલોજી ડિપાર્ટમેન્ટ તથા સ્પોકન ટ્યુટોરીઅલ I.I.T (Indian Institute of Technology) મુંબઈ ના સંયુક્ત ઉપક્રમે ઈ પ્રોગ્રામિંગ વિષય પર તા: ૧૧/૦૫/૨૦૨૦ ના રોજ ૬ દિવસીય ફેકલ્ટી ડેવલપમેન્ટ પ્રોગ્રામ નો પ્રારંભ કરવામાં આવ્યો હતો. જેનો મુળભૂત ઉદ્દેશ્ય સમગ્ર દેશ માંથી ભાગ લઈ રહેલા ૨૬૦ થી વધુ અધ્યાપકોને ઈ લેન્ડસ્ટ્રી, ઓનલાઈન રીસોર્સીસ એકસેસ, ઈ લેન્ગવેજ વર્કસ્પેસ માટે નવા ફક્શન પેકેજીસ, ઈમ્પોર્ટન્ટ ડેટા સેટ મેનિપ્યુલેશન એન્ડ સમરાઈઝેશન, ઈઆઈપોથિસિસ ટેસ્ટિંગ, સ્ટેટિસ્ટિકલ ટેસ્ટિંગ તથા ઈ પ્રોગ્રામીંગ વિઝ્યુઅલાઈઝેશન વિષે માહિતગાર કરવાનો છે. આ પ્રસંગે મુખ્ય અતિથિ તરીકે ચારુતર વિદ્યામંડળ ના અધ્યક્ષ એન્જનીયર ભીખુભાઈ



પટેલ, સંસ્થા ના પ્રિન્સિપાલ ડૉ. ઈન્દ્રજિત એન. પટેલ તથા ડૉ. કેયુર બ્રહ્મભટ્ટ (હેડ, આઈ. ટી. એન્જ.) ઓનલાઈન ગુગલ મીટ પ્લેટફોર્મ દ્વારા ઉપસ્થિત રહ્યા હતા.

આ પ્રસંગે ચારુતર વિદ્યામંડળના અધ્યક્ષ એન્જનીયર ભીખુભાઈ પટેલે જણાવ્યું હતું કે વર્તમાન પરિસ્થિતિ માં COVID-19 ને અનુલક્ષીને ઓનલાઈન

લર્નિંગ પાયાની જરૂરિયાત છે તથા રાષ્ટ્રના ઘડતર માં શિક્ષણ મુખ્ય અગત્ય નો ભાગ ભજવે છે. આ ઉપરાંત તેમણે અધ્યાપકો ને ઉપરોક્ત ફેકલ્ટી ડેવલપમેન્ટ પ્રોગ્રામ માં મહત્તમ ટેકનિકલ લર્નિંગ થી રિસંચ માટે શુભેચ્છા પાઠવી હતી તથા ભીવીએમ ને ઈ પ્રોગ્રામિંગ વિષય પર ફેકલ્ટી ડેવલપમેન્ટ પ્રોગ્રામ માટે અભિનંદન પાઠવ્યા હતા.

બિરલા વિશ્વકર્મા મહાવિદ્યાલય ખાતે પ્રાણાયામ સે પ્રાણ બચાઓ વિષય પર વેબિનાર યોજાયો

આણંદ, તા. ૨૬
ચારુતર વિદ્યામંડળ સંચાલિત બિરલા વિશ્વકર્મા મહાવિદ્યાલય ખાતે ઈન્ફોર્મેશન ટેકનોલોજી એન્જી. ડિપાર્ટમેન્ટ દ્વારા તા. ૨૫-૪-૨૦૨૦ના રોજ પ્રાણાયામ સે પ્રાણ બચાઓ વિષય પર વેબિનાર યોજાયો. જેમાં એક્સપર્ટ તરીકે ડૉ. કુશ પંચાલ (આંતરરાષ્ટ્રીય યોગા કોચ) ઉપસ્થિત રહ્યા હતા. તેમણે કોવીડ-૧૯ની પરિસ્થિતિને અનુકૂળ વિવિધ પ્રાણાયામ અને યોગાસનાની માહિતી અને નિદર્શન કરાવ્યું હતું. આ ઉપરાંત વર્તમાન સ્થિતિમાં ન્યુટ્રિશન તથા ડાયેટ પ્લાન વિષે પણ રસપ્રદ ઉપયોગી માહિતી આપી હતી. આ પ્રસંગે સંસ્થાના પ્રિન્સિપાલ ડૉ. ઈન્દ્રજિત એન. પટેલ જણાવ્યું હતું કે વર્તમાન સમયમાં કોરોના વાયરસને અનુલક્ષીને પ્રથમ હરોળના દેશો જેવા કે અમેરિકા, જાપાન, ચીન, યુરોપ ના દેશો તથા ભારતમાં કોરોના વેકસિનેશન પર સંશોધનો થઈ રહ્યા છે. ત્યારે દરેક વ્યક્તિ માટે ઈમ્યુનીટી બુસ્ટીંગ



પ્રાથમિક જરૂરિયાત બની ગઈ છે તે દિશામાં આ પ્રકારના આયોજન સરાહનીય છે. આઈટી એન્જી. ના વડા ડૉ. કેયુર બ્રહ્મભટ્ટે જણાવ્યું હતું કે ઉપરોક્ત વેબિનાર દ્વારા સૌને યોગ તથા પ્રાણાયામની પ્રાથમિક માહિતી સૌને મળી રહે તે ઉદ્દેશ્ય થી વેબિનારનું આયોજન કરવામાં આવ્યું હતું તથા સૌનો આભાર વ્યક્ત કર્યો હતો. ઉપરોક્ત વેબિનારમાં ૧૩૦ થી વધારે અઘાપકો તથા

વિદ્યાર્થીઓએ ભાગ લીધો હતો. ઈવેન્ટને સફળ બનાવવા માટે ફેકલ્ટી કોડીનેટર્સ ડૉ. નિલેશ વડા ડૉ. કેયુર બ્રહ્મભટ્ટે જણાવ્યું હતું કે ઉપરોક્ત વેબિનાર દ્વારા સૌને યોગ તથા પ્રાણાયામની પ્રાથમિક માહિતી સૌને મળી રહે તે ઉદ્દેશ્ય થી વેબિનારનું આયોજન કરવામાં આવ્યું હતું તથા સૌનો આભાર વ્યક્ત કર્યો હતો. ઉપરોક્ત વેબિનારમાં ૧૩૦ થી વધારે અઘાપકો તથા

બિરલા વિશ્વકર્મા મહાવિદ્યાલય ખાતે સોફ્ટવેર ડેવલપમેન્ટ તથા ઈન્ડસ્ટ્રી વિષયે વેબિનાર

આણંદ, તા. ૧૨

ચારુતર વિદ્યામંડળ સંચાલિત બિરલા વિશ્વકર્મા મહાવિદ્યાલય ખાતે ઈન્ફોર્મેશન ટેકનોલોજી એન્જી. ડિપાર્ટમેન્ટ દ્વારા ઈનસાઈટ ઈન ટુ Agile સોફ્ટવેર ડેવલપમેન્ટ તથા ઈન્ડસ્ટ્રી ૪.૦ વિષય પર વેબિનાર યોજાયો હતો. જેમાં એક્સપર્ટ તરીકે મુસ્તુફા ફટાકડાવાલા (મશીન લર્નિંગ એનાલિસ્ટ) તથા ભાવિન શુક્લા (મેનેજિંગ કન્સલ્ટન્ટ) ઉપસ્થિત રહ્યા હતાં.

મુસ્તુફા ફટાકડાવાલા એ Agile સોફ્ટવેર ડેવલપમેન્ટ વિષે નોલેજ પુરું પાડ્યું હતું. ભાવિન શુક્લાએ અલગ અલગ ઈન્ડસ્ટ્રી રિવોલ્યુશન ૧.૦, ૨.૦, ૩.૦ નો પરિપત્ર આપીને વર્તમાન સમયમાં ઈન્ડસ્ટ્રી ૪.૦ની એપ્લિકેશન વિષે માહિતી આપી હતી.

સંસ્થાના પ્રિન્સિપાલ ડૉ. ઈન્દ્રજિત



એન. પટેલે જણાવ્યું હતું કે વર્તમાન સમયમાં ટેકનોલોજી રિવોલ્યુશન ઈન્ડસ્ટ્રી ૪.૦ને ધ્યાનમાં રાખીને આ પ્રકારના વેબિનારનું આયોજન કરાયું હતું. આઈ. ટી. એન્જી વિભાગના વડા ડૉ. કેયુર બ્રહ્મભટ્ટે એ Agile સોફ્ટવેર ડેવલપમેન્ટની ડાયનેમિક કેરેક્ટરીસ્ટિક્સ તથા ઈન્ડસ્ટ્રી ૪.૦માં સોફ્ટવેરના રોલ વિષે જણાવ્યું હતું.

આ ઈવેન્ટમાં ૧૨૦ થી વધુ અધ્યાપકો તથા વિદ્યાર્થીઓએ ભાગ લીધો હતો.

બિરલા વિશ્વકર્મા મહાવિદ્યાલય ખાતે "બ્લોકચેઇન ડિજિટલ ટ્રાન્સફોર્મેશન" વિષયે વેબિનાર

આણંદ, તા. ૯

ચારૂતર વિદ્યામંડળ સંચાલિત બિરલા વિશ્વકર્મા મહાવિદ્યાલય ખાતે ઈન્ફોર્મેશન ટેકનોલોજી એન્જિ. ડિપાર્ટમેન્ટ દ્વારા "બ્લોકચેઇન ડિજિટલ ટ્રાન્સફોર્મેશન" વિષયે વેબિનાર યોજાયો હતો. જેમાં એક્સપર્ટ તરીકે સોહિલ શાહે બ્લોકચેઇન ફંડામેન્ટલ્સ, સ્માર્ટ કોન્ટ્રાક્ટ્સ, પબ્લિક એન્ડ પ્રાઇવેટ બ્લોકચેઇન, એપ્લિકેશન ઓફ બ્લોકચેઇન ઈન ડિજિટલ ટ્રાન્સફોર્મેશન વિષે રસપ્રદ માહિતી આપી હતી.

આ પ્રસંગે સંસ્થાના પ્રિન્સિપાલ ડૉ. ઈન્દ્રજીત એન. પટેલ જણાવ્યું હતું કે બ્લોકચેઇન ડિજિટલ ટ્રાન્સફોર્મેશન આઈ.ટી. ઈન્ડસ્ટ્રીઝના ઈમર્જિંગ ટ્રેન્ડ્સમાં સ્થાન ધરાવે છે તથા વિદ્યાર્થીઓ તથા અધ્યાપક બ્લોકચેઇન ટેકનોલોજીનો ઉપયોગ સિક્યોર ટ્રાન્સેક્શનમાં કરીને પણ રાષ્ટ્રને મદદ કરી શકે છે. આઈ.ટી. એન્જિ.ના વડા ડૉ. કેયુર બ્રહ્મભટ્ટે જણાવ્યું હતું કે લોકડાઉનને વધારે



પ્રોડક્ટિવ બનાવવા માટે એઆઈસીટીઈ દ્વારા ઈમર્જિંગ ટેકનોલોજીકલ ટ્રેન્ડ્સને અનુરૂપ જે વિષયો આપવામાં આવ્યા છે તેને અનુલક્ષીને વેબિનારનું આયોજન કરવામાં આવ્યું છે.

વેબિનારમાં ૧૮૦થી વધારે અધ્યાપકો તથા વિદ્યાર્થીઓએ ભાગ લીધો હતો. ઈવેન્ટને સફળ બનાવવા માટે ફેકલ્ટી કોર્ડિનેટર્સ પ્રો. બીજલ દલવાડી, પ્રો. પ્રાચી શાહ તથા સ્ટુડન્ટ કોર્ડિનેટર્સ હિમાંશુ ઠાકર તથા જૈમિન સિમ્પીએ કામગીરી હાથ ધરી હતી. ચારૂતર વિદ્યામંડળના અધ્યક્ષ એન્જિનીયર ભીખુભાઈ પટેલ તથા હોદ્દદારોએ શુભેચ્છા વ્યક્ત કરી હતી.

બીવીએમ સોશિઅલ મીડીયા એન્ડ સાયબર લો પર વેબિનાર

આણંદ, તા. ૧૯
ચારૂતર વિદ્યામંડળ સંચાલિત બિરલા વિશ્વકર્મા મહાવિદ્યાલય ખાતે ઈન્ફોર્મેશન ટેકનોલોજી એન્જિ. ડિપાર્ટમેન્ટ દ્વારા તા. ૧૮ એપ્રિલના રોજ સોશિયલ મીડીયા એન્ડ સાયબર લો વિષય પર વેબિનાર યોજાયો. આ વેબિનારમાં એક્સપર્ટ તરીકે ડૉ. આનંદકુમાર ત્રિપાઠી ઉપસ્થિત રહ્યા હતા.

તેમણે સાયબર લો ની જરૂરીયાત તથા પરિચય, સોશિયલ મીડીયા એન્વાયર્નમેન્ટ, ઈન્ફોર્મેશન ટેકનોલોજી એક્ટ ૨૦૦૦ પીનલ કોડ ડિઝાસ્ટ મેનેજમેન્ટ એક્ટ

ટૂ ટેકલ કોવીડ-૧૯ કિમિનલ લો કન્સ્ટીટ્યુશન લો, ભુમન રાઈટ્સ, કિમિનલ જસ્ટિસ સિસ્ટમ, કિશિંગ ઈ-મેલ, ઓનલાઈન સ્કેમ, ઈમ્પેક્ટ ઓફ સાયબર ક્રાઈમ ઓન સોસાયટી વિષે રસપ્રદ માહિતી આપી હતી.



બિરલા વિશ્વકર્મા મહાવિદ્યાલય ખાતે 'ઈન્ટિગ્રેશન ઓફ ગેમ એપ્લિકેશન્સ ઈન ક્લાસરૂમ ટીચિંગ' વિષયે ઓનલાઈન વર્કશોપ

ચારૂતર વિદ્યામંડળ સંચાલિત બિરલા વિશ્વકર્મા મહાવિદ્યાલય ખાતે ઈન્ફોર્મેશન ટેકનોલોજી એન્જિ. ડિપાર્ટમેન્ટ દ્વારા 'ઈન્ટિગ્રેશન ઓફ ગેમ એપ્લિકેશન્સ ઈન ક્લાસરૂમ ટીચિંગ' વિષય પર ઓનલાઈન વર્કશોપ યોજાયો. જેમાં એક્સપર્ટ તરીકે શ્રેયાંશ ભાવસાર(લર્નિંગ મેનેજર, એમેઝોન ઈન્ડિયા) એ વર્તમાન ટીચિંગ લર્નિંગ પ્રોસેસમાં પરિવર્તનની જરૂરિયાતને ધ્યાનમાં રાખીને વિદ્યાર્થીઓના માઈન્ડસેટને કેવી રીતે ઓળખવા, લર્નિંગ પિરામિડ, કોમ્પ્લેક્ષ થીયરીનું સીમ્પ્લીફિકેશન, ગેમીફિકેશનના ફંડામેન્ટલ્સ, રેગ્યુલર ટીચિંગમાં તેને અનુરૂપ ઈમ્પ્લિમેન્ટેશન કેવી રીતે કરવું, વિદ્યાર્થીઓનું ટીચિંગમાં કન્ટેન્યુએશન જળવાઈ રહે તે માટે જરૂરી મોટિવેશન, એક્સલેન્સ માટે રીવોર્ડ તથા લર્નિંગ દ્વારા ચેલેન્જ એક્સપેક્ટન્સ વિશે રસપ્રદ માહિતી આપી હતી. ઓનલાઈન વર્કશોપમાં ૨૦૦ થી વધારે અધ્યાપકો તથા વિદ્યાર્થીઓએ ભાગ લીધો હતો.



CREDITS

ADVISORS

Dr. Indrajit N Patel, Principal
Dr. Keyur N Brahmbhatt, HOD, IT

FACULTY COORDINATORS

Dr. Nilesh Prajapati
Dr. Zankhana Shah
Dr. Vatsal Shah
Prof. Bijal Dalwadi
Prof. Chintan Mahant
Prof. Vishal Polara
Prof. Dharmesh Patel
Prof. Priyank Bhojak
Prof. Prachi Shah

STUDENT COORDINATORS

Akshay Patel
Himanshu Thacker
Jaimin Shimpi
Kushal Tanna
Smit Patel

One day Workshop on “3D Printing”

About The Event

Production Engineering department of BVM Engineering College had organized one day workshop on “**3D Printing**” for **second year (4th semester) students** on **17th March, 2018**. The expense of the workshop has been sponsored by TEQIP III.

The speaker for the workshop was invited from **Engineering Technique, Vadodara**. The workshop was arranged to understand fundamentals of 3D Printing and its applications in various engineering fields, being a part of subject Solid Modeling & Rapid Prototyping (PE210).

Date	:	17 th March, 2018
Venue	:	BVM Engineering College, V. V. Nagar
Expert Name	:	Mr. Rudresh Vyas Manager - Education Engineering Technique, Vadodara
Duration	:	1 Day (2 hour)
Total Number of Students	:	59 {41 (PE) + 18 (Other Branches)}
Expert talk Coordinator	:	1. Prof. K. D. Bhatt 2. Prof. G. V. Patel

Glimpses of Workshop:



Fig. Mr. Rudresh Vyas explaining various 3D Printing Techniques



Fig. Demonstration of 3D Printer



Fig. Demonstration of various objects manufactured by 3D Printer

Expert talk on “3D CAD Modeling”

About The Event

Production Engineering department of BVM Engineering College had organized Expert talk on **“3D CAD Modeling” for second year students on 20th January, 2018.**

The subject expert was invited from **Aspire Designs**. The expert talk was arranged to understand fundamentals of 3D modeling & to comprehend basics of CAD software (CREO Parametric 4.0), being a part of subject Solid Modeling & Rapid Prototyping (PE210).

Date	:	20 th January, 2018
Venue	:	BVM Engineering College, V. V. Nagar
Expert Name	:	Mr. Anand Mistry Director Aspire Designs
Duration	:	1 Day (2 hour)
Total Number of Students	:	45
Expert talk Coordinator	:	Dr. A. M. Trivedi / Prof. G. V. Patel

Glimpses of Expert Talk:



Fig. Mr. Anand Mistry explaining various commands to build 3D model in CAD software

One day Workshop on “Rapid Prototyping: Concepts & Demonstration”

About the Event

Production Engineering department of BVM Engineering College had organized one day workshop on **“Rapid Prototyping: Concepts & Demonstration”** for **second year students** on **16th February, 2019**. The expense of the workshop has been sponsored by TEQIP III.

The speaker for the workshop was invited from **Engineering Technique, Vadodara**. The workshop was arranged to understand fundamentals of Rapid Prototyping and its applications in various engineering fields, being a part of subject Solid Modeling & Rapid Prototyping (PE210).

Date	:	16 th February, 2019
Venue	:	BVM Engineering College, V. V. Nagar
Expert Name	:	Mr. Rudresh Vyas Manager - Education Engineering Technique, Vadodara
Duration	:	1 Day (2 hour)
Expert talk Coordinator	:	1. Prof. K. D. Bhatt 2. Prof. G. V. Patel

Expert talk on “Applications of Lean Tools in Inventory Management”

About The Event

Production engineering department of BVM Engineering College had organized an Expert talk on “**Applications of Lean Tools in Inventory Management**” for third year students on March 11, 2019 under BVM alumni association.

The subject expert was invited from **G. H. Patel College of Engineering & Technology, V. V. Nagar**. The expert talk was arranged as a part of open elective subject Principles of Supply Chain Management (PE372). The primary objective for arranging the expert talk was to develop student’s knowledge regarding real-time industrial applications of lean tools in inventory management. The experts deeply elaborated applications of each lean tools used in numerous industries with various examples.

Details of Program

Date	:	March 11, 2019
Venue	:	Production Engineering Department BVM Engineering College, V. V. Nagar
Expert Name	:	Dr. H R Thakkar Associate Professor, GCET, V. V. Nagar
Duration	:	1 Day (1 hour)
Expert talk Coordinator	:	Prof. G V Patel

Glimpses of Expert Talk:

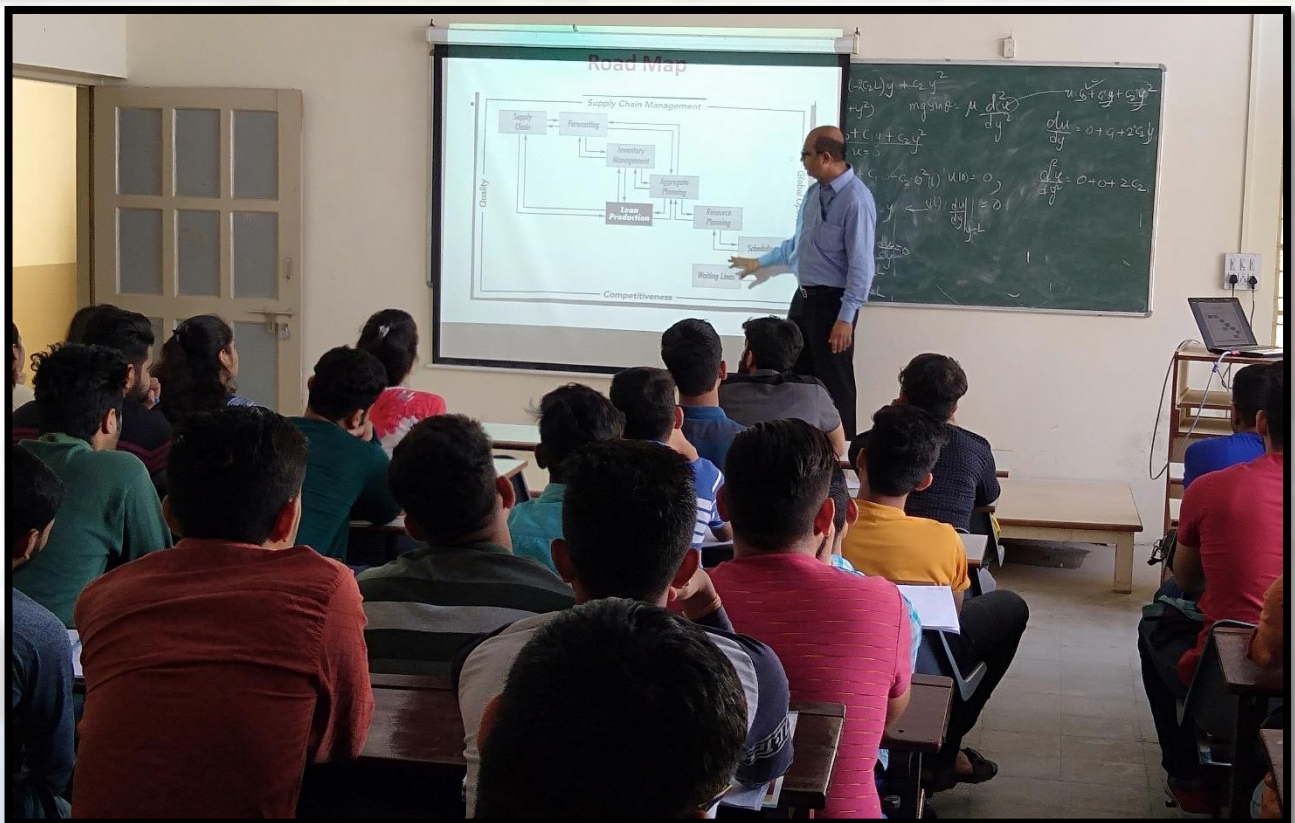


Fig. Dr. H R Thakkar explaining fundamentals of inventory management.



Fig. Dr. H R Thakkar explaining various lean tools for inventory management.

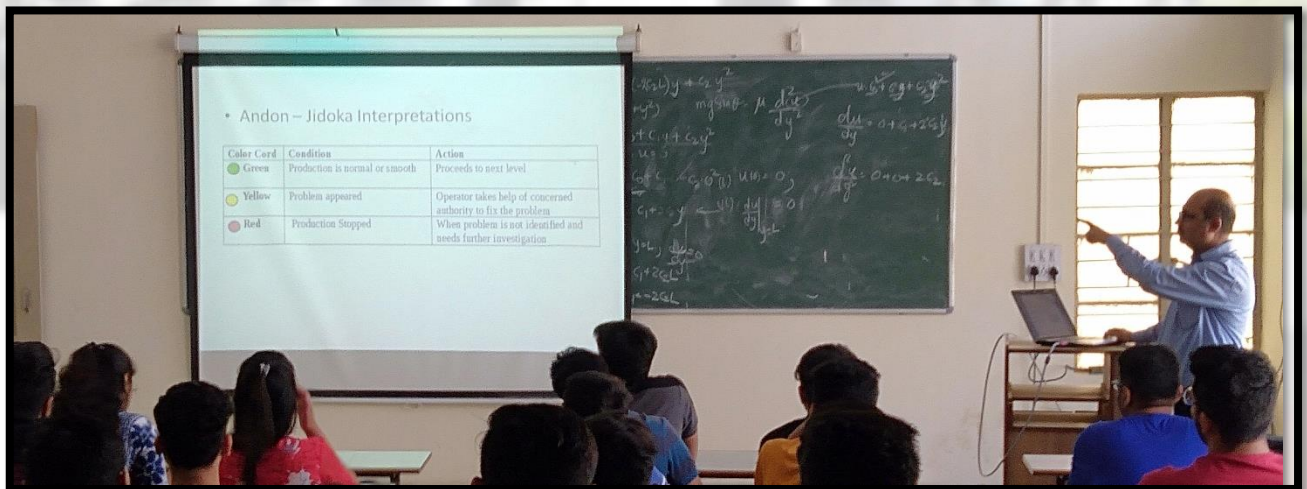


Fig. Dr. H R Thakkar explaining industrial applications of numerous lean tools

Expert talk on “Applications of Mechatronics in Automotive”

About The Event

Production engineering department of BVM Engineering College had organized Expert talk on “**Applications of Mechatronics in Automotive**” for third year students on 16th February, 2019.

The subject expert was invited from **Cummins India Ltd., Pune**. The expert talk was arranged as a part of program elective subject Mechatronics (PE353). The primary objective for arranging the expert talk was to develop student’s knowledge regarding real-time industrial applications of mechatronics especially in automotive sector. The expert also explained real-time applications of mechatronics in his industry.

Details of Program

Date	:	16 th February, 2019
Venue	:	Production Engineering Department BVM Engineering College, V. V. Nagar
Expert Name	:	Mr. Devendra Patel Team Leader, Cummins India Ltd., Pune
Duration	:	1 Day (1.5 hour)
Expert talk Coordinator	:	Prof. K. D. Bhatt & Prof. G V Patel

Glimpses of Expert Talk:



Fig. Mr. Devendra Patel explaining applications of Mechatronics in automotive at Cummins India Ltd., Pune

Expert talk on “Computational Methods in fluid flow & heat transfer”

About The Event

Production Engineering department of BVM Engineering College had organized Expert talk on **“Computational Methods in fluid flow & heat transfer” for third year students on 18th November, 2017**. The expense of the expert talk has been sponsored by BVM Alumni Association funding.

The subject expert was invited from **IIT, Bombay**. The expert talk was arranged to understand applications of computation methods in the area of fluid flow and heat transfer, being a part of subject Numerical Methods (PE301).

Date	:	18 th September, 2017
Venue	:	BVM Engineering College, V. V. Nagar
Expert Name	:	Prof (Dr.) U N Gaitonde Professor IIT, Bombay
Duration	:	1 Day (1 hour)
Total Number of Students	:	35
Expert talk Coordinator	:	Dr. A. M. Trivedi / Prof. R. S. Barot

Glimpses of Expert Talk:



Fig. Prof (Dr) U N Gaitonde explaining various methods to solve problems of fluid flow and heat transfer.

Expert talk
on
“Industrial Engineering Current Trends & Future Prospects”

About The Event

Production engineering department of BVM Engineering College had organized Expert talk on ***“Industrial Engineering Current Trends & Future Prospects”*** for final year students on 24th September, 2018 under BVM alumni association.

The subject expert was invited **Dr. Darshak Desai, Head of Mechanical Department, GCET college.** The expert talk was arranged to expand the student stretching their knowledge regarding to how to increasing productivity, different methods for increasing productivity, work measurement ,time study, ergonomics etc, being a part of industrial engineering (PE-402). The program also includes different case-studies related to industrial aspect. Session includes what are the different future prospect regarding industrial engineering, and the present value of industrial engineering in foren courtiers. lastly session was ended with vote of thanks & small token of love .

Really the session was very interesting as well as interactive

Details of Program.

Date : 24th September, 2018

Venue : Production Engineering Department BVM Engineering College

Expert Name : Dr. Drashak Desai.

Head Mechanical Engineering Dept..
GCET, V, V Nagar

Duration : 1 Day (1 : 50 hour)

TIME: 9:30 am TO 11:00 am

Expert talk Coordinator : Prof. J. R. Makwana

Glimpses of Expert Talk:



Expert talk on “Productivity Improvement Methods”

About The Event

Production engineering department of BVM Engineering College had organized Expert talk on “**Productivity Improvement Methods**” for third year students on 10th March, 2018.

The subject expert was invited from **Elecon Engineering Co. Ltd. (MHE), Vallabh Vidyanagar**. The expert talk was arranged to expand the student knowledge regarding modern productivity improvement methods like 5S, JIT, JIDOKA, KANBAN, Lean Manufacturing etc., being a part of subject Lean Manufacturing (PE310). The program also include Hands on session of real-time interpretation of industrial drawings, being a part of subject Assembly Engineering & Automation (PE308).

Details of Program

Date	:	10 th March, 2018
Venue	:	Computational Lab (C222) Production Engineering Department BVM Engineering College, V. V. Nagar
Expert Name	:	Mr. P A Patel DGM, Elecon (MHE)
Duration	:	1 Day (2 hour)
Expert talk Coordinator	:	Prof. G V Patel, Prof. J R Makwana

Glimpses of Expert Talk:



Fig. Mr. P A Patel explaining modern methods of productivity improvements.



Fig. Students explaining industrial drawings to Mr. P A Patel.

Expert talk on “SCM in Manufacturing Industry”

About The Event

Production engineering department of BVM Engineering College had organized Expert talk on “**Supply Chain Management in Manufacturing Industry**” for third year students on 08th January, 2019.

The subject expert was invited from **GMM Pfaudler Ltd., Karamsad**. The expert talk was arranged as a part of open elective subject Principles of Supply Chain Management (PE372). The primary objective for arranging the expert talk was to develop student’s knowledge regarding real-time industrial applications of supply chain management. The program was also including live case-study related to supply chain management in expert’s industry.

Details of Program

Date	:	08 th January, 2019
Venue	:	Production Engineering Department BVM Engineering College, V. V. Nagar
Expert Name	:	Mr. Hardik Bhadiadra Assistant Manager, GMM Pfaudler Ltd.
Duration	:	1 Day (1.5 hour)
Expert talk Coordinator	:	Dr. H. S. Beravala & Prof. G V Patel

Glimpses of Expert Talk:



Fig. Mr. Hardik Bhadiadra explaining fundamental concepts of SCM.



Fig. Mr. Hardik Bhadiadra explaining SCM terminology with the help of Bollywood blockbuster film “Sholey”

Expert talk on “SCM in Manufacturing Industry”

About The Event

Production engineering department of BVM Engineering College had organized Expert talk on “**Supply Chain Management in Manufacturing Industry**” for third year students on 22nd September, 2018.

The subject expert was invited from **Eimco Elecon (India) Ltd., Vitthal Udyognagar**. The expert talk was arranged to expand the student stretching their knowledge regarding numerous industrial applications of supply chain management, logistics management, inventory management, ERP systems etc., being a part of subject Supply Chain Management (PE352). The program also includes different case-studies related to supply chain management in manufacturing industries.

Details of Program

Date	:	22 nd September, 2018
Venue	:	Production Engineering Department BVM Engineering College, V. V. Nagar
Expert Name	:	Mr. Hardik Bhadiyadra Sr. Technical Executive, Eimco Elecon
Duration	:	1 Day (1 hour)
Expert talk Coordinator	:	Prof. G V Patel

Glimpses of Expert Talk:



Fig. Mr. Hardik Bhadiyadra explaining fundamental concepts of SCM, LM & Forecasting.



Fig. Mr. Hardik Bhadiyadra explaining SCM case-study & correlating it with the Bollywood blockbuster film "Sholey"

Expert talk

on

“Some Case-studies in Heat Transfer”

About The Event

Production engineering department of BVM Engineering College had organized Expert talk on “Some Case-studies in Heat Transfer” for second year students on 9th march, 2019 under BVM alumni association.

The subject expert was invited **Dr. N. K. Chavda**, Associate Professor, Department of Mechanical Engineering, A. D. Patel Institute of Technology, New. V. V. Nagar The expert talk was arranged to expand the student stretching their knowledge regarding Heat Transfer, Conduction, Convection & Radiation, Concept of Thermal Radiation being a part of Subject Engineering Thermodynamics & Heat transfer (PE- 207). The program also includes different case-studies related to different concept of heat transfer.

lastly session was ended with vote of thanks & small token of love .

Really the session was very interesting as well as interactive .

Details of Program.

Date: 9 March 2019

Venue : C-224 Production Engineering Department
BVM Engineering College

Expert Name : **Dr. N. K. Chavda**,
Associate Professor,
Department of Mechanical Engineering,
A. D. Patel Institute of Technology,
New. V. V. Nagar

Duration : 1 Day

TIME: 12:30 pm TO 2:00 pm

Expert talk Coordinator : Prof. J R Makwana

Production Engineering Department

Glimpses of Expert Talk:



- OBJECTIVES**
- Newton's Law of Cooling
 - Extended Surfaces (FINS)
 - Heat Flow Through Uniform Cross Section
 - Case: I: Infinite Length of Fin
 - Case: II: Insulated at End
 - Case: III: Losing Heat at Tip
 - Efficiency of Fin
 - Effectiveness of Fin

- Newton's Law of Cooling
- Extended Surfaces (FINS)
- Heat Flow Through Uniform Cross
- Case: I: Infinite Length of Fin
- Case: II: Insulated at End
- Case: III: Losing Heat at Tip
- Efficiency of Fin
- Effectiveness of Fin

Expert talk on “Some Case-studies in Computer Aided Design”

About The Event

Production Engineering department of BVM Engineering College had organized Expert talk on “**Some Case-studies in Computer Aided Design**” for third year students on 10th February, 2018.

The subject expert was invited from **Stress Engineering Services, USA**. The expert talk was arranged to demonstrate application of CAD tools in different engineering fields, being a part of subject Computer Aided Design (PE306).

Details of Program

Date	:	10 th January, 2018
Venue	:	Computational Lab (C222) Production Engineering Department BVM Engineering College, V. V. Nagar
Expert Name	:	Dr. Mandar Kulkarni Stress Engineering Services USA
Duration	:	1 Day (2 hour)
Expert talk Coordinator	:	Dr. A. M. Trivedi

Glimpses of Expert Talk:



Fig. Dr. Mandar Kulkarni explaining numerous case-studies in Computer Aided Design



Birla Vishvakarma Mahavidyalaya (BVM)

(An Autonomous Institute)

Department of Production Engineering

The Report of

A Student Training Program on

How to make All Terrain Vehicle?

Duration

October 10-13, 21-22, 2018

(6 Days)

Class

T. Y. B. Tech.

S. Y. B. Tech.

F. Y. B. Tech

Convener

Dr A M Trivedi

Program Coordinators

Prof D A Gajjar

AY: 2018-19

Training Program on “How to make All Terrain Vehicle?”

About Training

A training programme on “How to make All Terrain Vehicle?” was organized on October 10-13, 21-22, 2018 for the students of First, Second & third level of production and mechanical Engineering branch, to give them an idea on how a real time ATV is designed and manufactured, what kinds of problems are to be faced while its manufacturing and how those problems are overcome. The programme taught students on how much an out of classroom exposure is important as the in classroom studies.

Inaugural Function

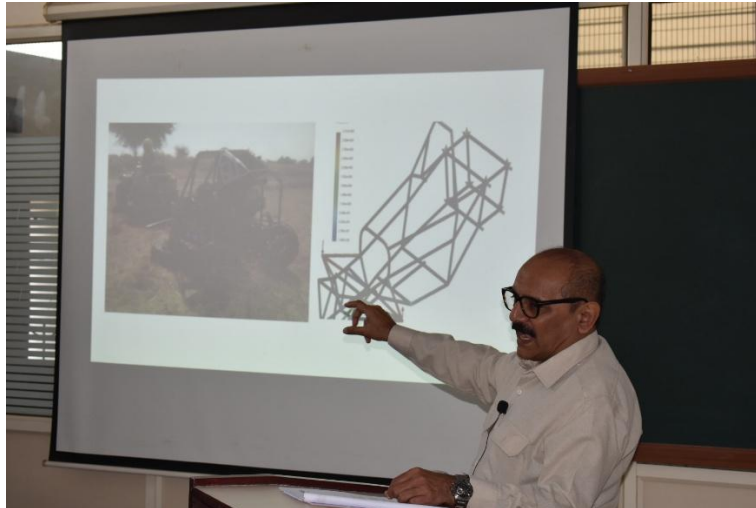
On the October 10, 2018, the 6-day Training program on “How to make All Terrain Vehicle?” was inaugurated in the presence of Prof (Dr) Indrajit N Patel, Principal BVM Engineering College was the President of the function and Mr. Narayan Naik, Director, Powerland Agro Tractor Vehicles Pvt. Ltd. was the Chief Guest of the function.



Glimpse of Inaugural Function

Day 1 (October 10, 2018)

The day was comprised of two sessions. Mr. Narayan Naik, MD Powerland Agro Tractor Vehicles Pvt. Ltd. delivered the first session in which he delivered an expert talk on the “Basics of All Terrain Vehicle”. The students learned about basics of All-terrain vehicle which include about the Roll-cage design, different materials used for the roll cage, & they also got an exposure about the suspension, assembly for power transmission.



Glimpse of the Expert Talk

In the Second session Mr. Anand Mistry, CAE Consultant delivered the expert talk on “Building of an All-Terrain Vehicle: A CAE Way”, in his lecture he discussed about different software out of which the student can design a ATV, and he initiated the design in creo software and the students was practising.



Glimpse of Expert Talk

Day 2 (October 11, 2018)

The day was comprised of two sessions. Dr Ferdinand Rodricks, Director Ferro Equip Pvt. Ltd. & Ex-CEO Mahindra & Mahindra delivered the first session talk where he interacted with the students about “Safety in Design of All Terrain Vehicle”, he has also discussed about the steering, control system in ATV & awareness about accidents. Due to his lecture students get a good exposure for designing a safer ATV.



Glimpse of Expert talk

Mr. Anand Mistry, CAE Consultant delivered the second session where he interacted with the students about “Design and Analysis: Roll cage”.

During this session expert introduced the critical members of the roll cage of ATV, from where one should start the design of ATV, & he illustrated by designing the roll cage & all the students was practising as per guidance of the experts.

Day 3 (October 12, 2018)

The day was comprised of two sessions. Mr. Anand Mistry, CAE Consultant delivered Expert talk in both the sessions, in the first session he interacted with the students about “A Criticality in Suspension & Engine Mountings”. Due to this session the students got a brief

knowledge about the different type suspension as well as about the criticality about the engine mounting in ATV.

In the second session Mr Anand Mistry, CAE Consultant talked about the “Steering, Control and Stability of All Terrain Vehicle”, in which he briefed about the complexity in steering & how one can make a stable and controlled ATV.



Glimpse of Expert Talk

Day 4 (October 13, 2018)

In the Morning session Mr Anand Mistry, CAE Consultant delivered an Expert talk on “Assembling of an All-Terrain Vehicle”, he explained about the different assemblies in All-terrain Vehicle, he also assembled the all-terrain vehicle during this session using software & he has given on hands opportunity to the students of doing small assemblies of ATV.



In the afternoon session Mr. Akhand Pratap Singh, Organizing committee Member – SAEINDIA BAJA delivered expert talk on “Vehicle Dynamics & Endurance: All-Terrain Vehicle”, during his talk students gain a knowledge about the failures of different components of ATV during the endurance race, they learned about the behaviour / load acting on the different components of ATV during the different dynamic tests like sled-pull, Suspension test, Manoeuvrability test, Acceleration test etc.



Glimpse of Expert Talk

Day 5 (October 21, 2018)

In the morning session Dr K C Vora, Senior Deputy Director, ARAI & alumni BVM Engineering college delivered an expert talk on “Static Design, Report & Evaluation”, during this session he talked about the Society of Automotive Engineers, Baja Competition, Process of forming a collegiate club, Static Design, Report, & about Evaluation Process. During his talk student learned about different components of ATV, typical design targets, engineering design Assessments & Team formation.



Glimpse of Expert talk & Meeting

In the second session, Dr K C Vora talked about “Experiential feel of All Terrain Vehicle”, at ADIT College. During this session he explained about the manufacturing of ATV & the process Associated with it. He also talked about the assembly of ATV, further he explained about advantages & disadvantages between CVT & Gearbox, Different suspension, different material used for manufacturing ATV.





Glimpse of Expert talk at ADIT College

Day 6 (October 22, 2018)

Despite it was the last day of the training program we were having of the best personality of automotive industry Er Vinay Mundada, Ex-MD- Designated SMV, Force Motors, he shared his knowledge among the students about “Design Process, Quality Design and General Failures in ATV”.



Glimpse of Expert Talk

Valedictory Function

How the function can end with the valedictory Function so, on the October 22, 2018, the valedictory function was started in the presence of President of the function Dr S G Patel, Honorary Secretary Charutar Vidya Mandal, Dr K C Vora, Senior Deputy Director, ARAI was the Keynote speaker, Mr. Vinay Mundada, Ex-MD Force Motors was the Guest of Honour & Dr A M Trivedi was the Convener of the program. During this valedictory function the certificates were distributed among the participants. Few of the students has share their feeling about the functions with a demand of organizing such training program frequently.



Glimpse of Valedictory function



BIRLA VISHVAKARMA MAHAVIDYALAYA
(An Autonomous Institution)
(Managed by CVM)



REPORT

Hands-on training on proteus software



Date of event and time: 20th and 27th July, 10:00am-1:00pm

Venue: Microcontroller lab

Resource person: Prof. S.V.Arya

Faculty coordinator: Prof. D.A.Parikh and Prof. S.V.Arya

Total students participated: 20

A pre-qualifying test was conducted for all the interested students of second level which was designed by our resource person prof. S.V.Arya. Basics of electrical as well as a students purpose behind learning the software was also asked in test. out of total 29 students 20 students qualified for actual workshop.

ABOUT THE WORKSHOP

On 20th July at 10:00am first session of proteus software began, in which prof. s.v.arya explained us about “**what is simulation?**” and its requirement in various industrial applications as well as projects etc. after clearing concept of simulation we moved further with proteus software layout and how to simulate a basic circuit which include linear elements like voltage source, current source, resistors etc. As it was beginning we had simulated an electrical circuit which include bulb and measured its power rating. Tools and basic features of software were understood by every student at the end of the day.

On 27th July at 10:00am second session of proteus software began with a brief recap of previous session, after that prof. s.v.arya explained us about what is thyristor? as well as its practical application, after understanding the concept, Prof asked us to simulate the circuit of chopper at a particular frequency. We had also learned about IGBT and its application over thyristor than we had simulated its circuit, after a successful simulation we also learned how to access output in CRO and change its resolution as well as frequency as per our need. A theoretical explanation on cycloconverters and finally how to troubleshoot with errors in circuits was also explained lucidly by prof.

Closing ceremony

As a chief guest our **Head of department Dr. B.R.Parekh** and **IE(I) electrical student chapter Chairman Prof. A.A.Shaikh** were invited, they asked us about our learning from the workshop, what will We do further in our projects with the help of this software and the summary of workshop.

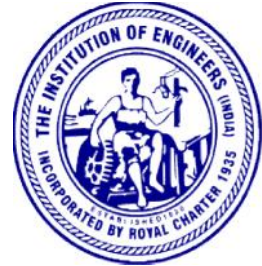
At the end H.O.D **Dr.B.R.Parekh** felicitated **prof. S.V.Arya** with a memento and a gift.

Refreshment was also provided to all the students after the completion of closing ceremony.

IE(I) Electrical students chapter successfully conducted the hands on workshop on proteus software under the guidance of **prof. D.A.Parikh** and **Prof.S.V.Arya**



Event manager: - Gaurav Barve
Galav Bhatt
Mihir Pandya



BIRLA VISHVAKARMA MAHAVIDYALAYA

(An Autonomous Institution)

IE(I) Students' Chapter – Electrical Department

Report of webinar

“Fundamentals of Electric Vehicle Engineering”

Details of webinar:

Date: 4 June 2020

Time of event: 10:00 to 11:00 A.M

Platform: Cisco WebEx

Speaker: Dr. Jignesh Makwana, Ph.D. IIT Roorkee, Founder & Director of RhyMak Electronics, Bhavnagar.

Number of students registered: 280

Organising Team: Prof. M. N. Sinha, Prof. Y. R. Prajapati, Prof. A. A. Pandya and Prof. Swapnil Arya

About the webinar:

IEI Electrical Student Chapter had organised an online webinar on Fundamentals of Electric Vehicle Engineering on 4 June 2020. The expert for the session was Dr. Jignesh Makwana, Ph.D. IIT Roorkee, Founder & Director, RhyMak Electronics from Bhavnagar. Prof. Manish Sinha and Prof. Yogesh Prajapati were the faculty coordinator for the webinar.

The webinar began with a warm felicitation by Prof. Yogesh Prajapati and Principal Dr. Indrajit Patel. After felicitation, our expert Dr. Jignesh Makwana commenced the session with the application of EV's in final year project.

Details of webinar:

Dr. Jignesh Makwana simplified the webinar in **three steps** like select an **application, decide performance requirement** and **select required motor**. Further, the **power calculation** were shown by him to decide the battery specification accordingly.

Certain technical terms like **C rating** were explained which helps in indication of charging/discharging limit of the battery current. **Hub E-bicycle** was also explained with ease along with practical understanding of front vs Rear hub, how it actually affects the bicycle, **pedal assist system (PAD)** was explained that motor works only when user is pedalling which helps in saving energy. **Switched reluctance motor (SRM)** was also explained by him which was one of the oldest motor and still have a competitive edge, Tesla model 3 also uses SRM motor.

Certain **major requirements of EV** motor drive were discussed by him like high instant power and high power density, high torque at low speed of starting and also while climbing, high efficiency over wide speed and torque ranges, high efficiency for regenerative braking etc. He demonstrated **driving schedule map** of Urban EV's. He also explained engineering philosophy that "**Engineering integrates science technology and management for solving the real world problem effectively**". Electric vehicle engineering is an interdisciplinary field where everyone like Electrical engineer, Electronics engineer, Mechanical engineer, automotive engineer, industrial engineer can contribute.

While **concluding** the session the expert explained about **huge potential in future EV automobile sector** like never before. Industries, trading and jobs in the field of Electric vehicle will be going to great heights.

Outcome of webinar:

The webinar gave the fundamentals required for E Vehicles. It also gave idea of the basics required for E Vehicles. The speaker explained some basic terms used in building of EV and the technology used in it. He also tried to explain the importance of E Vehicles because of its raising demand and to reduce pollution. The webinar showed u the potential of EV automobile sector.

Glimpse of webinar:



Fundamentals of Electric Vehicle Engineering

Dr. Jignesh Makwana

Dr. Jignesh Makwana

