



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 Ahmedabad

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.

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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



Optical Fibre Cable Lab



C-DOT Lab

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







