A REPORT ON
PROJECT BASED LEARNING (PBL)

Academic Year 2017-2018 (Even Semester)
Third Year Undergraduate Students of

Computer Engineering Department

Objective—To enable the students to apply concepts of the present semester subjects (including those of previous semesters) in the form of a design project based on certain application. It is hoped that it shall eventually lead to a better learning experience as opposed to textbook learning. Separate topics are assigned to all students in groups (maximum 4-6 students per group) of the same year to enable healthy competition among the different teams. The students work in groups and assign and distribute various aspects of work so as to realize the project based on a timeline of about 2 to 3 months. Queries and doubts are clarified by interactions with the PBL coordinators and subject experts. Student groups submit the PBL report during their demonstrations on a specified date in front of the faculty members.

Judges for the PBL Demonstrations
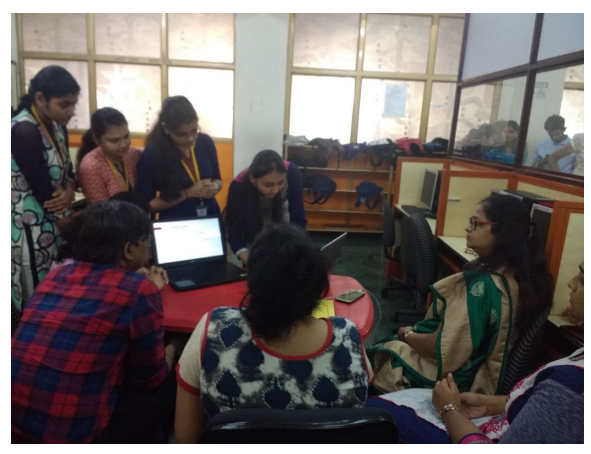All Computer and IT Engineering Faculty of the concerned class.
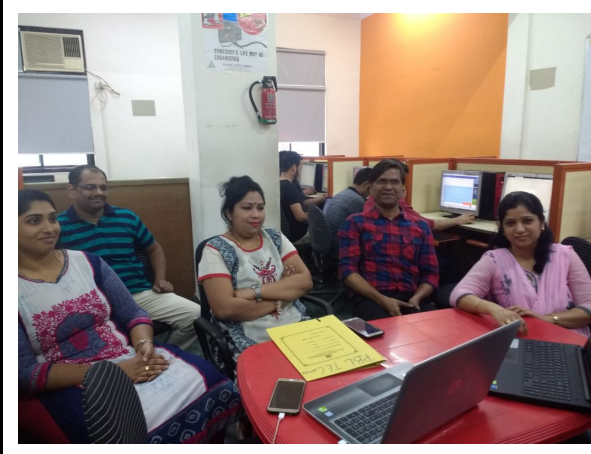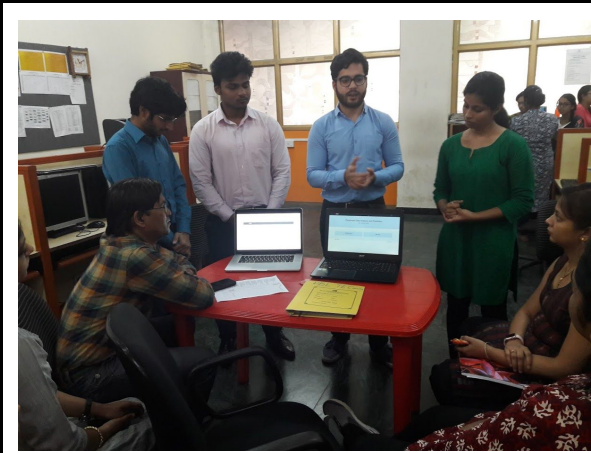
PBL Coordinators

Division A	Prof. Amol K
Division B	Prof. Krishna N

PBL Topic list:

1	**Training and Placement Management system**
	The main objective of implementing this project is to provide information on the basis of "Placement cell" being used in the college for storing and retrieving student and company information who are registered with the placement cell.It provides details of its students in database for the companies to the process of their recruitment with proper login. This stores complete information of the students like personal details,CGPA marks,their skill set and technical skills that are required in the CV to be sent to a company.System maintains student information,system also helps to have selections to be made easy for a company in its test for recruitment process. Students can update their information only.It is useful for students who can easily search for material required for selection process such as aptitude,reasoning etc...and various websites for placement papers. Module can be : Admin,Students,companies.
2	**Placement Data Analysis and Prediction**
	Develop an application to track past placement data and get statistics of no companies visited and no of students placed company wise each year (with criteria). Use this data to predict which companies are likely to come next time. Do a web search of current hiring spree of companies and skill sets required by each and using this and prev data do a prediction as to which company should be called as Day-One etc. Also this data could be used to decide which special training courses should be floated inhouse to develop the necessary skill sets among the students to make them placement ready.
3	**Swachata mission**
	The app enables a citizen to post a civic-related issue (eg; a garbage dump) which is then forwarded to the city corporation concerned and thereafter assigned to the sanitary inspector of the particular ward. For the app to work we need to take a picture of the Civic-related issue using your smartphone, and post it in one of the following categories which includes : 1)Garbage vehicle not arrived 2)Sweeping not done 3)Public toilets blockage and cleaning 4) Absence of water supply & electricity in public toilets.5) Dead animals.The app will capture the location while the picture is being taken. Just type in the landmark of the complaint location. The complaint will then be assigned to the concerned sanitary inspector/engineer. We can also vote up on any other complaint relevant to us and will get regular updates on status of the complaint in the form of a push notification with the 'Resolved' image uploaded by the assigned sanitary inspector/engineer.
4	**Android application for emergency Patients**
	This application will help search for optimal hospital for the patients who are in need when in an unknown area. The person in an emergency or anybody at the site uses EMS to avail the service.System has 3 main functions :1) Emergency alarm 2) Locating the optimal hospital and

	3) Healthcare management. Alarm sends message to optimal hospital which is suggested by EMS via internet and also calls the users family,friends and doctor. Emergency message can include the location information of the user.
5	**Finding Family APP**
	GPS phone tracker to let your family be in touch and stay connected. Modules may involve: Sharing free messages with family and kids. 2)Get an alert message whenever kids go where its not safe. 3)Get notification when kids reach destinations like(school or home on map) 4)Also track your lost phone using other family member's phone. 5) See the real time location of entire family 6) Also send and receive SOS with location.
6	**Care and control App for Parents**
	The main objective over here is to deal with your children's interaction with the digital world.Key features are: 1) Monitor phone usage: Take control of your child's phone usage by making sure that your child's phone is used only for making right kind of connections such as Text messages, calls, gallery, Address book and study materials. 2) GPS tracker: Know where your child is at all times. 3) Limit screen time: with the screen locker there's a new way that you can lock your child's phone remotely. 4) Parental tension: With few swipes your child can go where you don't want them to go hence keep the contents filtered.
7	**Employee Tracking System**
	It helps to track an individual whenever they enter restricted area.A receiver can be placed in such areas in the building and connected to a PC,which can take input from connected receiver and enter onto database for further monitoring. Modules:1) Add new employee. 2)Time and attendance. 3)Authentication of employee. 4)Tracking and manage the log. 5) Administrative login. One can use RFID readers to capture the image of the employee hence proxy cant be done.

Photos:

Winners list:

TE COMP A

Care and control App for Parents

Sr	Roll No	Name
1	2	ACHARYA BHARGAVI RAJENDRA
2	14	CHAUDHARI KALPAJ ISHWAR
3	49	MEGHA SUBASH MENON
4	63	RAHUL RAGHUNANDANAN R NAIR
5	72	SOLANKI DIVYAM DINESH

Placement Data Analysis and Prediction

Sr	Roll No	Name
1	12	BUDBADKAR SHEETAL TUKARAM
2	40	KALONI HIMANSHU MANOJ
3	47	MAPARI RUTUJA RAJESH
4	50	METE SAURABH SANJAY
5	55	NADAR SUSMITHA JAWAHARLAL

Training and Placement Management system

Sr	Roll No	Name
1	19	DABDE ANIKET VILAS
2	33	NIKHIL S HARKANGI
3	38	JOSHI HITESH RAJENDRA
4	48	MENON ADITYA NITYANAND
5	57	NAIR AKHIL HARIDAS

Swachata mission

Sr	Roll No	Name
1	3	ADAK MANDIRA MANINDRA
2	23	DESHMUKH ANAND JAYANT
3	34	HOLKAR SHRAVANI UDAY
4	46	MAHAJAN ADITYA PRABODH
5	56	NAIK UZAMA MUSTAK

Placement Data Analysis and Prediction

Sr	Roll No	Name
1	6	BATH HARMAN SINGH HARVINDERSING
2	16	CHAVAN PRATHMESH VIJAY
3	21	DESAI TEJAS LADU
4	66	PATADE PRATHAMESH NARAYAN
5	71	SABLE NIKHIL SANJAY

TE COMP B

Stealth Application

Sr	Roll No	Name
1	54	Karan Shah
2	23	Jeet Navadhare
3	39	Ayush Pillai
4	34	Shubham Pathak

Placement Data Analysis and Prediction

Sr	Roll No	Name
1	58	Shreya Jayachandran
2	68	Sanika Tamhankar
3	56	Sayoojya Dinesan
4	24	Karishma Netake

Training and Placement Management system

Sr	Roll No	Name
1	9	Omkar Hande
2	13	Kajal Lonkar
3	53	Anamika Sanap
4	14	Saneeth M Shaji

Swachata mission

Sr	Roll No	Name
1	2	Raj Bhillare
2	6	Aishwariya Gawde
3	17	Pranjali Naik
4	16	Srikanth Naidu

Care and control App for Parents

Sr	Roll No	Name
1	29	Rammohan
2	43	Aradhana potteth
3	41	Rohit pillai
4	20	Saurabh nair
5	48	Reuben reji

Pothole Patrol

Sr	Roll No	Name
1	15	Rohan mudliar
2	5	Padmesh Gadge
3	7	Jobin george
4	61	Shivang Solanki

Photos of certificate Distribution