

MES's Pillai College of Engineering, New Panvel

**A REPORT ON
PROJECT BASED LEARNING (PBL)**

**Academic Year 2016-2017 (Semester VI)
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. Rakhi M |
| Division B | Prof. Krishna N |

PBL Topic list:

| Sr | PBL TOPICS | Description |
|----|---|---|
| 1 | RETINA: A Real Time Navigation System. | Mobile computing systems are playing a more and more important role in everyday life and applications based on both local and wide area distributed wireless networks are being launched all the time. One of the more challenging applications is real-time traffic navigation, and this thesis focuses on our experience in the design and implementation of a REal-Time Traffic Navigation System (RETINA) |
| 2 | Canteen Automation system | Once an order is placed on the webpage, it is entered into the database and then retrieved, in pretty much real-time, by a desktop application on the canteens end. Within this application, all items in the order are displayed, along with their corresponding options and delivery details, in a concise and easy to read manner. This allows canteen employees to quickly go through the orders as they are placed and produce the necessary items with minimal delay and confusion, let order be placed in regional language & we will ask students to do language translation. |
| 3 | Friend mapper on mobile | Mobile computing: Using gps getting the location of friends through google maps and also calculating their distances. |
| 4 | Agricultural Helpline | |
| 5 | SMS based Remote Server Monitoring System For Corporate Data Centers | |
| 6 | Device control through bluetooth from android mobiles. | |
| 7 | GUI representation to show working of parsers & development of parse tree | |
| 8 | GPS/GSM based vehicle tracking system | |
| 9 | College and Hostel Automation system | |
| 10 | Bluetooth chat application | |
| 11 | Mobile tracker | |
| 12 | Text Normalization of Miglish(Marathi + English) text ex: whatsapp text conversion into pure | |

| | | |
|----|-------------------|--|
| | English text | |
| 13 | Teacher assistant | |

Winners list:

| Division A | | Division B | |
|------------|-------------------|------------|--------------------|
| Rno | Name | Rno | Name |
| 4 | Akhilesh Yadav | 15 | Abhishek Jaiswal |
| 5 | Amulya Poojari | 19 | Rishi Kambil |
| 6 | Anurag Mohanan | 23 | Akhil Meleth |
| 11 | Pooja Bist | 26 | Sooraj Nair |
| 12 | Chetan Kalra | 27 | Sushmita Nair |
| 15 | Riya Das | 28 | Swati Nair |
| 16 | Pratik Deo | 38 | Jahnvi Patil |
| 17 | Dinesh Kashyap | 40 | Shashank Patil |
| 20 | Gaurav Biswas | 41 | Niraj Pawar |
| 23 | Shailey Kadam | 43 | Prenav Premkumar |
| 26 | Shailesh Kotian | 44 | Nishita Raut |
| 27 | Sushmita Manche | 45 | Rishika Karna |
| 28 | Akansha Mekade | 48 | Bhushan Samarth |
| 32 | Kevin Mistry | 52 | Shruthi Srinivasan |
| 36 | Vijeta Nayak | 53 | Sohail Siddique |
| 38 | Nishchal Gaur | 54 | Rohan Vadlamudi |
| 44 | Queeny Srivastava | 57 | Jagdish Khaire |
| 46 | Mayank Rawat | 59 | Pramod Sargar |
| 53 | Shahana Shamim | | |
| 54 | Rhea Shetty | | |
| 56 | Shivam Singh | | |
| 58 | Vikas Singh | | |
| 61 | Sumit Sharma | | |
| 63 | Shivani Thakare | | |

Photos:

