A REPORT ON
PROJECT BASED LEARNING (PBL)

Academic Year 2017-2018 (Semester IV)
Second Year Undergraduate Students of

Computer/IT 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. Shubhangi R
Division B	Prof. Harshal L

PBL Topic list:

#	Topic	Description
1	Stealth Application	Small application which can be installed copied through weblink, Bluetooth transfer etc on any android mobile phone. Application should be in the mode of invisible (No icon), hidden from the user. Application should contact the main server as per the programmed time and receive the instructions such as sending call logs, SMS's, current Lat, Lang location coordinates. In case of non-availability internet should send the information through SMS in stealth mode.
2	Junk file organisation in python	Basically, as a lazy programmer our desktop is full of files (Junk Files). Due to the large number of files, it is a daunting task to sit and organize each file. To make that task easy the below Python script comes handy and all the files are organized in a well-manner within seconds. In this project we are going to implement a junk file organizer using python the motive of the project is to orgainze and make neat desktop for the user this will help the user to be organize and will save a huge amount of time. With the help of this project the user get an idea about his system and can easily locat where his/her files are located. Our project will contain set of features as follows: · folder organization · moving common files to appropriate folders · mapping
3	Web Scraping using python(weather)	The bulk of the work described below can be neatly divided into a sequential phase scraping .The scraping phase includes all of the steps we go through to gather, prepare, and store the information we want to analyze. Things like extracting information from the web, dealing with any of data's idiosyncrasies that could impact analysis in unwanted ways, and storing the information in a format that makes for easy analysis, are all part of the scraping phase. Mainly using python and a small usages of java html etc according to the need.
4	PCE Indicator	There are following points which are to be implemented in the app: 1)Time-Table: Provide class wise timetable either using database or we can just redirect them using the link. 2)Map: Provide maps of each floor/wing using Corel-Draw or other software 3)Teacher details: Provide a small detail of each faculty from PCE 4)Results: 5)Term Calendar: Provide the term calendar of Pillai's College 6)Events: Provide a brief information of various events conducted in Pillai's Institute -> Alegria,UberRang,etc. 7)Student committee:
5	Student result prediction	In-depth look at the psychometric and performance analyses of the students through onlinesystem that analyses the students' data to identify students on the verge of dropping out of college and allowing college to take corrective measures to ensure students

		remain in college. All the students and teachers teaching the students would be required to fill online questionnaires at regular intervals (after every month/twice in a semester) The analysis would also incorporate Teacher's Feedback regarding individual student for complete profiling and based on the class/academic performance would predicts what grade students will receive.
6	Application to track anti-social and terrorist activity on social networking sites	Develop an application that can track all social networking posts which is anti social or related to terrorist activity. All twitter handles, facebook pages and Linked-IN and other sites need to scan for the objectional text, application may use sentiment analysis to find exact result. Set of objectional words can be supplied through application.
7	Stimulation of scheduling algorithm in operating system using Python.	Graphical Simulator for OS process scheduling like FCFS,SJF,Round Robin and memory management like Best fit, first fit, worst fit, next fit etc. The simulator would enable students to understand the actual working of each algorithm as well as a comparative analysis of performance of each algorithm for a given set of input processes/jobs.

Photos:
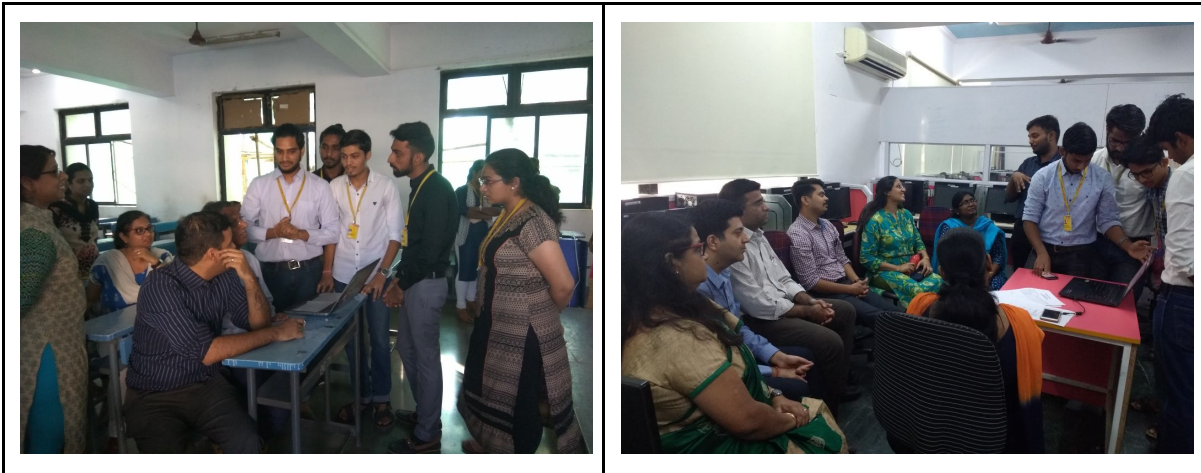
Winners list:

Sr. No.	ROLL NO	NAMES	PBL TOPIC
1	428	Vinod Gupta	Stealth Application
	430	Saqiuzzaman Hossain	
	416	Balraj Singh	
	441	Shruti Katkade	
	443	Urjita Kerkar	
2	453	Nivedita Mhatre	Junk file organisation in python
	467	Pragati Patil	
	469	Jagruti Thombare	
	454	Sachin Mahto	
	444	Abdul basit khan	
3	405	Krtin Ahuja	Web Scraping using python(weather)
	468	Akshans Rautela	
	421	Praveen Bhilare	
	417	Rohan Bangera	
	403	Himanshu Agarwal	
4	426	Saqlain Dhanse	PCE Indicator
	464	Pravinraj Nadar	
	457	Tanmay Maurya	
	425	Dhanadarsh Kumar	
	419	Shubham Bavdhankar	
5	470	Nimit Tiwari	Stimulation of scheduling algorithm in operating system using Python.
	402	Vaibhav Adsul	
	413	Mrunal Badade	
	424	Akshata Deshpande	
	442	Kavya Mohandas	
6	415	Rohan Bait	Student result prediction
	422	Sakshi Bhosale	
	436	Shivangi Jotshi	
	439	Ashita Karekadan	
	463	Sitadevi Muthkhod	

Photos of Certificate Distribution: