TCET/FRM/IP-02/10 Revision: B

Semester Plan
(Practical / Tutorials / Assignment)

Semester: **VII** Course: **B.E IT** Batches: **B.E**

Subject: **Ubiquitous Computing** Class: B**.E IT- A & B** Batch size: **22** Students

Laboratory faculty in charge: **Ms. Radhika Kotecha** Lab. Assistant /Attendant: M. Vishwakarma

Note: **Experiment planned as per University Curriculum**

Basic Experiments:

Sr. No.	TITLES Experiments / Tutorials / Assignment (Planning with use of Technology)	Planned Date	Completion Date	Remarks
1	Demonstrate the use of location-based messages application.	25/7/17		
2	Implement real time wireless health monitoring application using wireless sensor network	1/8/17		
3	RFID technology review using python3 on raspberry pi	8/8/17		
4	Implement Location and context-aware services using Raspberry Pi	5/9/17		

Design/ Development Experiments:

5	Design Human Computer Interaction system with reference to user interfaces and interaction devices	12/9/17		
6	Design Ubiquitous Communication system with reference smart devices	19/9/17		
7	Design Ubiquitous system for Classroom 2020	26/9/17		
8	Design Ubiquitous system for Super Market	3/10/17		
9	Design Ubiquitous system for Hospital management	17/10/17		

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Group Learning Activity:

10	**Mini Project :** Design of UbiCom System with respect to GUI design , smart devices , smart communication	21/10/17		
11	**Case study :** Education system for the institute with reference to smart devices and smart communication	7/10/17		
12	**Case study:** Network design issues and Social issues (Promise versus Peril) for Ubiquitous Communication.	7/10/17		

Bridge courses Objective: Bridging of gaps with respect to prerequisites and industry skills or to carryout research in that particular field**. (24 Hrs / Semester / student)**

1. **Mini /Minor Projects Objective:** To get hands on experience to execute projects with respect to student choice in the following areas. **(30 Hrs / Semester / Student). (Total 120 Hrs)**

The areas are :

1. Research 2. Core 3. Multidisciplinary 4. Application

Major project : As per University Scheme

Mini/Minor/Major project :

S.No	Project Title/Group Size	Class	Group size / Project Hours	Project type	Reference
1.	**Automated test paper Generator**	SE- IT-A	3	Mini Project	Technology based Learning
2.	**E-cart**	TE-IT-B	3	Minor Project	Technology based Learning
3.	**Academic Result Analysis**	TE-IT-A	4	Minor Project	Technology based Learning
4.	**College management system and data analysis with machine learning**	BE-IT-B	3	Major Project	Technology based Learning
5.	**E-voting System**	BE-IT-B	4	Major Project	Technology based Learning

	Planned	Completed		Planned	Completed		Planned	Completed
No. of Prac	**Basic Exp:** 04 **Design Base Exp**: 05 **Mini Project:** 01 **Group Learning/ Case study : :** 02 **Bridge Course:** 02		No. of Assign ments	**03**		No. of Tutorial	00	

DOSLNE:	DOSLE (engaged in some other dates):

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Group activities are required to be added with the practical related to course to enhance the learning activity of the student in the course. Group activity includes: Group presentation, new experiment design, mini projects etc.

Note:

1. The practical plan date and completion date shall be in compliance. For any non-compliance reason(s) required to be stated in remark column.
2. Learning objective and outcome shall be clearly stated with each of experiments/ tutorials/ assignments and are required to be mapped at the end of the semester.
3. Entry for DOSLE (engaged on some other date) shall be done with proper mapping to DOSLNE.

SD/- **(Mrs. Mary Margarat)** Name & Signature of Faculty Date:	**SD/-** Signature of HOD Date:	**SD/-** Signature of Principal / Dean Academic Date:

http://www.penguintutor.com/news/raspberrypi/rfid-rc522

Simple RFID using Python3 on a Raspberry Pi 2 - RC522 SPI RFID module