

Faculty of Information and Communication Engineering

M.E. Mobile and Pervasive Computing

(R 2017) Semester – I

MP5111 Embedded Systems Laboratory

(Requirements for a batch of 25 students)

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	8051 Microcontroller kit	25		
2.	Traffic light control Interfacing card compatible with 8051 kits	6		
3.	Stepper motor control Interfacing compatible with 8051 kits	6		
4.	Keyboard & Display Interface board compatible with 8051 kits	6		
5.	A/D and D/A Interfacing card compatible with 8051 kits	6		
6.	Serial and Parallel Interfacing card compatible with 8051 kits	6		
7.	Computer	25		
8.	Software installed on Computers - C, C++, Embedded Application Development IDE for 8051, ARM and Atom Processors -Licensed / Open Source alternatives like Keil C51 and Libraries for Embedded Application Development for Bluemix	1		

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(R 2017) Semester – I

MP5112 Wireless Networking Laboratory

(Requirements for a batch of 25 students)

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	LE910 CDMA Shield + Embedded Processor Kit	1		
2.	GPS / GSM Module + Embedded Processor + Programme for Remote Monitoring	1		
3.	GPS / GSM Module + Embedded Processor + Program to Find location	1		
4.	GSM Module + Embedded Processor + SMS Programme	1		
5.	GSM Module + Embedded Processor + Program to Remote Monitoring and Control	1		
6.	GSM Module + Embedded Processor + Existing GSM Network + Program to Remote Monitoring and Control	1		
7.	Bluetooth Module + Embedded Processor	1		
8.	RFID and Bluetooth Module + Embedded Processor	1		
9.	MT200 Trainer Kit for Bar code reading	1		
10.	RFID TAG + Embedded Processor	1		
11.	RFID Reader + RFID Tag + software	1		
12	WIFI Transmitter + WIFI Receiver + APP software + Circuit to open and close door	1		

Faculty of Information and Communication Engineering

M.E. Mobile and Pervasive Computing

(R 2017) Semester – II

MP5212 Mobile Application Development Laboratory

(Requirements for a batch of 25 students)

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Android, J2EE, Scripting Languages, Any database Systems	25		