

GUJARAT TECHNOLOGICAL UNIVERSITY

Subject Name: Mobile Application Development (Elective)

Subject Code: 3735205

Semester III

Type of course: ME - Electronics & Communication Engineering (VLSI & Embedded Systems Design)

Prerequisite: Basic knowledge in Java, HTML, Javascript.

Rationale: NA

Teaching and Examination Scheme:

Teaching Scheme			Credits C	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
			ESE (E)	PA (M)	PA (V)	PA (I)		
4	2#	0	5	70	30	30	20	150

L- Lectures; T- Tutorial/Teacher Guided Student Activity; P- Practical; C- Credit; ESE- End Semester Examination; PA- Progressive Assessment;

Content:

Sr. No.	Content	Total Hrs	% Weightage
1	Introduction: Survey of prominent mobile platforms – smart phones, camera/camcorder devices, Tablet devices, automotive.	6	10
2	Energy/Power Management in mobile systems. Mobile OS and developer packages overview	6	10
3	Study of iPhone, iPad, Windows Mobile (HTC), Android (Google, Motorola) platforms.	6	10
4	Study of Automotive platforms.	7	20
5	Actual Application Development This course is focused on getting the students to actually develop an application on a target mobile device. The students must download the environment, develop and demonstrate an actual application on a mobile device.	7	20

Course Outcome:

After learning the course the students should be able to:

1. Enumerate the mobile application development platforms and explain the concepts of web application development in mobile devices.
2. Describe the application development using third party frameworks.
3. Describe the concepts of application development in automotive domain.
4. Develop android mobile applications using Android SDK

Review Presentation (RP): The concerned faculty member shall provide the list of peer reviewed Journals and Tier-I and Tier-II Conferences relating to the subject (or relating to the area of thesis for seminar) to the students in the beginning of the semester. The same list will be uploaded on GTU website during the first two weeks of the start of the semester. Every student or a group of students shall critically study 2 papers, integrate the details and make presentation in the last two weeks of the semester. The GTU marks entry portal will allow entry of marks only after uploading of the best 3 presentations. A unique id number will be generated only after uploading the presentations. Thereafter the entry of marks will be allowed. The best 3 presentations of each college will be uploaded on GTU website