SCHEME OF COURSE WORK

Department of Information Technology

Course Details:

COURSE TITLE	APP DEVELOPMENT LAB		
COURSE CODE	15CT11S1	L T P C	0 0 2 1
PROGRAM	B.TECH		
SPECIALIZATION	IT		
SEMESTER	VIII		
PRE REQUISITES	Object Oriented Programming through Java		
COURSES TO WHICH IT IS A PRE REQUISITE	N/A		

Course Outcomes (COs):

1	Implement Android Layouts and GUI components
2	Develop application for user permission for SD card
3	Develop an application that use database
4	Implement application using fragmentation concept
5	Implement Native applications using google services

Course Outcome versus **Program Outcomes**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	3	2	3						2	2	3	
CO2	3	2	3										2	3	
CO3		3	2	2	2	2						3	2	3	
CO4	2	3	2	2	3							3	2	3	
CO5	2												2	3	

Assessment Methods	Assignment / Quiz / Mid-Test

Programme Specific Outcomes (PSOs)

At the end of the Programme, a student will be able to

PSO1: Plan, develop, implement, and evaluate IT solutions to specific business problems usingspecific programming language and software tools.

PSO2: Design and Develop Network, Mobile and Web-based Computational systems underrealistic constraints.

PSO3: Design and implement fundamental network security solutions.

Programme Outcomes (POs)

At the end of the Programme, a student will be able to

PO1: Apply the knowledge of mathematics, science, engineering fundamentals and principles of Information Technology to solve problems in different domains.

PO2: Analyze a problem, identify and formulate the computing requirements appropriate to its solution.

PO3: Understand to design, develop and evaluate software components and applications that meet specifications within the realistic constraints including cultural, societal and environmental considerations.

PO4: Design and conduct experiments, as well as analyze and interpret data

PO5: Use appropriate techniques and tools to solve domain specific interdisciplinary problems.

PO6: Understand the impact of Information technology on environment and the evolution and importance of green computing.

PO7: Analyze the local and global impact of computing on individual as well as on society and incorporate the results in to engineering practice.

PO8: Demonstrate professional ethical practices and social responsibilities in global and societal contexts.

PO9: Function effectively as an individual, and as a member or leader in diverse andmultidisciplinary teams.

PO10: Communicate effectively with the engineering community and with society at large.

PO11: Understand engineering and management principles and apply these to one's own work, asa member and leader in a team, to manage projects.

PO12: Recognize the need for updating the knowledge in the chosen field and imbibing learning tolearn skills.

Teaching- Learning & Evaluation

Week	Topic/ Contents	Course Outcomes	Teaching learning strategy	Assessment method & schedule
1	Develop an application that uses Layout Managers and event listeners.	CO1	Programming	Viva-1
2	Develop an application that uses GUI components, Font and Colors	CO1	Programming	Viva-2
3	Develop a native calculator application.	CO1	Programming	Viva-3
4	Develop an application that makes Music player	CO2	Programming	Viva-4
5	Implement an application that implements Multi threading	CO2	Programming	Viva-5
6	Develop an application that makes use of database.	CO3	Programming	Viva-6
7	Implement an application that writes data to the SD card.	CO2	Programming	Viva-7
8	Implement an application that creates an alert upon receiving a message.	CO1	Programming	Viva-8
9	Write a mobile application that creates alarm clock	CO2	Programming	Viva-9
10	Write a mobile application that use fragmentation.	CO4	Programming	Viva-10
11	Develop a native application that uses GPS location information.	CO5	Programming	Viva-11
12	Develop a native application that uses Google map services.	CO5	Programming	Viva-12