

Detailed Syllabus

Lab-wise Breakup

Course Code	17M17CS223	Semester Even (specify Odd/Even)	Semester 4 th /11 th Session 2018 -2019 Month from Jan-June
Course Name	Dissertation		
Credits	16	Contact Hours	32

Faculty (Names)	Coordinator(s)	Dr. Sangeeta Mittal
	Teacher(s) (Alphabetically)	Dr. Sangeeta Mittal

COURSE OUTCOMES		COGNITIVE LEVELS
C213.1	Summarize, Compare, and interpret relevant scholarly literature relating to the field of computer science	Understand Level (Level-2)
C213.2	Analyze chosen literature to identify a research problem, its requirements and metrics	Analyze Level (Level-4)
C213.3	Develop substantial software development skills and apply them to construct computing-based solution to the identified problem	Apply Level (Level-3)
C213.4	Interpret and critically evaluate results to establish appropriateness of solutions	Evaluate Level (Level-5)
C213.5	Create written discourse for presentation of work done in a scientific manner	Create Level (Level-6)

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Lab-wise Breakup

Course Code	17M17CS224	Semester Even (specify Odd/Even)	Semester 4th / 11th Session 2018 - 2019
Course Name	Industrial Project		
Credits	16	Contact Hours	32

Faculty (Names)	Coordinator(s)	Dr. Sangeeta Mittal
	Teacher(s) (Alphabetically)	Dr. Sangeeta Mittal

COURSE OUTCOMES		COGNITIVE LEVELS
C214.1	Analyse open problems in chosen industry to formulate project statement	Analyse (Level-3)
C214.2	Apply acquired Computer Science concepts and tools to solve the business-related problem	Apply (Level-3)
C214.3	Evaluate proposed solution with respect to alternatives to establish its efficacy	Evaluate (Level-5)
C214.4	Create oral and written account of the work done and its results and conclusions	Create (Level-6)

Detailed Syllabus

Lecture-wise Breakup

Subject Code	17M17CS121	Semester: EVEN (specify Odd/Even)	Semester 2nd, Session 2019 Month from JAN to MAY
Subject Name	PBL-II		
Credits	2	Contact Hours	0-0-4

Faculty (Names)	Coordinator(s)	1. Dr. Vikas Saxena
	Teacher(s) (Alphabetically)	Dr. Vikas Saxena

S . No	Course Outcome	Bloom's Level
CO1	Develop a project on research based topic by Applying software development lifecycle processes	Level-6, Create
CO2	Identify the issues related to development of project which includes team work, test driven design, data collections etc	Level-2, Understand
CO3	Prepare technical report detailing the software specification, design, test plan, and implementation details	Level-3, Applying
CO4	Will be able to critically review the projects developed by peers.	Level-4 Analyze

Module-1	Feasibility & Team making	Making a team as suggested in PBL Guideline, Study team Sprit, peer review ethics, Literaturesurvey and selection and reporting a problem statement, Understanding PSP and TSP, Open Source based development	12
Module-2	Analysis	Defining Scope, Domain study, Defining performance parameter, SRS	9

		and Peer review, Scheduling, Planing, define input and output	
Module-3	Design	TDD, Metrics and measurement, Design document, peer review, Validation,	9
Module-4	Implementation and Testing	Demonstration, Test case development, Optimizing Code	18
Module-5	Reprting	Prepare a user manual, Deplymentissue,Make installer, Critices, Calculate FT – MTTF,MBTF,MTTR etc	12
Total			60
Evaluation Scheme of PBL (as suggested in Ordinance-PG)			TOTAL=100
<p>(i) Each fortnightly assessment - 8</p> <p>(First assessment will be at the end of 3rd week from the beginning of the semester and thereafter fortnightly assessment. A total of six assessments giving a total percentage</p> <p>$6 \times 8 = 48$) = 48</p> <p>(ii) Report at the end of the semester - 10</p> <p>(iii) Semester end presentation by the students - 10</p> <p>(iv) Viva-voce at the end of the semester - 16</p> <p>(v) Peer group evaluation (i.e. evaluation by the fellow students not belonging to the same batch)-8</p> <p>(vi) Self assessment by the student concerned (can be - 8 moderated by the instructor)</p>			
1.	Technology specific reference book (#Net,Android, Java, Matlav, Python, MangoDB, Scala etc.		
2.	SWEBOK, https://www.computer.org/education/bodies-of-knowledge/software-engineering		
3.	ACM Computing Survey, csur.acm.org		
4.	IEEE Access, ieeaccess.ieee.org		

5.

PSP(sm), A Self-Improvement Process for Software Engineers by Watts S. Humphrey, Series:
SEI Series in Software Engineering