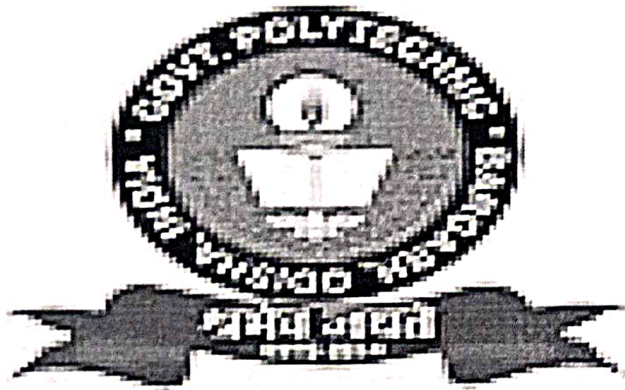


LESSON PLAN

SOFTWARE ENGINEERING



5TH SEM, CSE

PREPARED BY

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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

GOVERNMENT POLYTECHNIC BARGARH

LECTURE	TOPICS TO BE COVERED	TEACHING MODE
1	CHAPTER 1 Introduction to Software Engineering	PPT
2	Program vs. Software product	PPT
3	Emergence of Software Engineering. Computer Systems Engineering	PPT
4	Software Life Cycle Models :Classical Water fall model	PPT
5	Iterative Water fall model Prototyping model	PPT
6	Evolutionary model Spiral model	PPT
7	CHAPTER 2: Software Project Management Responsibility of Project Manager	PPT
8	Project Planning	PPT
9	Metrics for Project size estimation(LOC and FP)	PPT
10	Project Estimation Techniques	PPT
11	COCOMO Models, Basic, Intermediate and complete	CHALK & BOARD
12	Scheduling	PPT
13	Organization and Team structure	PPT
14	Staffing	PPT
15	Risk Management	PPT
16	Configuration Management	PPT
17	CHAPTER 3: Requirement Analysis and specification Requirements gathering and analysis	PPT
18	Software Requirements Specification :Contents of SRS	PPT
19	Characteristics of Good SRS	PPT
20	Organization of SRS	PPT
21	Techniques for representing complex logic	PPT
22	REVISION	PPT
23	CHAPTER 4 Software Design :What is a Good S/W design	PPT
24	Cohesion and coupling , Neat arrangement	PPT, CHALK & BOARD
25	S/W Design approaches Structured analysis	PPT
26	Data Flow Diagrams Symbols used in DFD	PPT, CHALK & BOARD
27	Designing DFD Developing DFD model of a system	PPT, CHALK & BOARD
28	Shortcomings of DFD	PPT, CHALK & BOARD
29	Structured design	PPT
30	Principles of transformation of DFD to Structure Chart	PPT
31	Transform analysis and Transaction Analysis	PPT
32	Design Review	PPT
33	REVISION	PPT
34	CHAPTER 5 User Interface Design	PPT

35	Characteristics of Good Interface	PPT
36	Basic concepts of UID	PPT
37	Types of User interfaces	PPT
38	Components based GUI development	PPT
39	REVISION	PPT
40	CHAPTER 6 Software Coding & Testing: Coding, Code Review .	PPT
41	Code walk through. Code inspections and software Documentation	PPT
42	Testing Unit testing Black Box Testing	PPT
44	Equivalence class partitioning and boundary value analysis	PPT
45	White Box Testing	PPT
46	Different White Box methodologies statement coverage branch coverage, condition coverage, path coverage	PPT
47	cyclomatic complexity data flow based testing and mutation testing	PPT
48	Debugging approaches 6.10 Debugging guidelines	PPT
49	Integration Testing Phased and incremental integration testing	PPT
50	System testing alphas beta and acceptance testing	PPT
51	Performance Testing, Error seeding	PPT
52	General issues associated with testing	PPT
53	CHAPTER 7 Software Reliability	PPT
54	Different reliability metrics	PPT
55	Reliability growth modeling	PPT
56	Software quality	PPT
57	Software Quality Management System	PPT
58	REVISION	PPT
59	PREVIOUS YEAR QUESTION ANSWER DISCUSSION	PPT
60	PREVIOUS YEAR QUESTION ANSWER DISCUSSION	PPT


LECTURER


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