

PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, BARGARH



LESSON PLAN Session-2021-2022

Discipline: CSE Engg. Semester: 5th (SE)
Name of the Teaching Faculty: P. K. Satapathy

Subject: SE No. of Days/per week class allotted 04
 Semester From Date : 01/10/2022 To Date : 31/01/2023 No. of Weeks : 15

Week	Class Day	Theory /Practical Topics
1st	1st	Introduction to software Engineering.
	2nd	Emergence of SE characteristics
	3rd	SDLC, classical and water fall model Iterative model
	4th	Prototyping model
2nd	1st	Evolutionary model, Incremental model
	2nd	Spiral model
	3rd	Project manager and its Responsibility
	4th	Project planning
3rd	1st	Matrices for project size estimation
	2nd	Analytical estimation Technique
	3rd	Empirical estimation technique
	4th	Heuristic estimation Tech. (Cocomo)


 Signature of the Faculty

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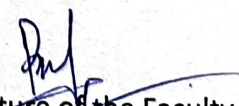
Week	Class Day	Theory /Practical Topics
4th	1st	scheduling, PERT, Gantt chart
	2nd	staffing
	3rd	organizational and Team structure
	4th	Risk identification, Assessment and containment
5th	1st	Need for Req. ^t Analysis in details
	2nd	Principle of Analysis.
	3rd	SRS documents, Requirements gathering & Analysis.
	4th	Contents of SRS and its characteristics
6th	1st	organization of SRS
	2nd	Analysis of SRS
	3rd	Important of S/W design and principle, concept of design
	4th	Cohesion and it's classification


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Week	Class Day	Theory / Practical Topics
7 th	1 st	coupling and it's classification
	2 nd	S/W design approaches, Structured Analysis
	3 rd	Dataflow diagram, uses and symbol
	4 th	Construction of DFD
8 th	1 st	structural chart and transformation
	2 nd	Transform Analysis
	3 rd	Transaction Analysis
	4 th	object oriented and function oriented
9 th	1 st	UID and it's rules
	2 nd	UID model (user, design, mental, implement)
	3 rd	UID process [Analysis, design, Construction, Validation]
	4 th	comparing various interfaces


Signature of the Faculty

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Semester From Date : 01/10/21 To Date : 31/01/22 No. of Weeks : 15

Week	Class Day	Theory /Practical Topics
10 th	1 st	study of menu Interface
	2 nd	Command Language based Interface.
	3 rd	Direct manipulation Interface
	4 th	GUI and text based Interface.
11 th	1 st	coding, it's standard and guidelines
	2 nd	code inspection and s/w documentation
	3 rd	Unit, Integration and system testing
	4 th	black box testing, Boundary value Analysis.
12 th	1 st	Different method for white Box testing.
	2 nd	white box testing
	3 rd	cyclomatic complexity
	4 th	Debugging Approaches.


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Week	Class Day	Theory /Practical Topics
13 th	1 st	Integration, phased & Incremental testing
	2 nd	System testing, stress, Regression testing.
	3 rd	Error seeding and issues.
	4 th	Importance of s/w Reliability
14 th	1 st	ROCOF, PoFOD, MTTF, MTTR, MTBF
	2 nd	Reliability growth modeling
	3 rd	characterence of Quality s/w.
	4 th	Evolution of s/w quality mgmt system.
15 th	1 st	ISO 9000 certification
	2 nd	SE Capability maturity model
	3 rd	Understanding CASE
	4 th	Explanatory its Examples.


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