

PANIPAT INSTITUTE OF ENGINEERING AND TECHNOLOGY PANIPAT
DEPARTMENT OF INFORMATION TECHNOLOGY

COURSE PLAN (Odd Semester-2024-25)

Name: - Mr. Sorabh Gupta
 Subject Name:- Compiler Design

Semester: - 7th Sem.
 Subject Code:- PE-IT-D405A

S.No.	Unit	Topic	Date of Plan	Date of Execution	Method/Remarks
CO1					
1	1	Analysis of the source program	29/08/2024	27/8/2024	Conventional
2	1	Phases of a compiler	29/08/2024 2/09/2024	27/8/2024 29/8/2024	Conventional
3	1	Grouping of Phases	3/09/2024	29/8/2024	Conventional
4	1	Compiler construction tools	3/09/2024	3/9/2024	Conventional
		Bootstrap and Cross Compiler	3/09/2024	3/9/2024	Conventional
5	1	Role of Lexical Analyzer	5/09/2024	3/9/2024	Conventional
6	1	Input Buffering	5/09/2024	3/9/2024	Conventional
7	1	Specification of Tokens	5/09/2024	10/9/2024	Conventional
8	1	Lexical Analysis – Regular Expression	9/09/2024	10/9/2024	Conventional
9	1	Introduction to Finite Automata and Regular Expression	9/09/2024	12/9/2024	Conventional
10	1	Conversion of Regular Expression to NFA	10/09/2024	12/9/2024 16/9/2024	Conventional
11	1	Language for specifying Lexical Analyzers	12/09/2024	17/9/2024	Conventional and Extra Topic
12	1	Implementation of a Lexical Analyzer	12/09/2024	19/9/2024	Conventional and Extra Topic
CO2					
1	2	Role of the Parser	16/09/2024	23/9/2024	Conventional
2	2	Writing Grammars	16/09/2024	23/9/2024	Conventional

3	2	Context-Free Grammars	17/09/2024	24/9/2024	Conventional
4	2	Shift-reduce Parser	17/09/2024	1/10/2024 (2 Lectures)	Conventional
5	2	Operator Precedence Parsing	19/09/2024	3/10/2024	Conventional
6	2	Top Down Parsing	23/09/2024	14/10/2024	Conventional
7	2	Predictive Parsers	24/09/2024	15/10/2024	Conventional
8	2	LR Parsers: SLR Parser	26/09/2024	17/10/2024	Conventional
9	2	Canonical LR Parser	30/09/2024	17/10/2024	Conventional
10	2	LALR Parser	30/09/2024	21/10/2024	Conventional
11	2	Implementation of LR Parsing Tables	1/10/2024	22/10/2024	Conventional
12	2	Symbol Table	3/10/2024	22/10/2024	Conventional/Projector
CO3					
1	3	Syntax directed Translation Schemes	14/10/2024	24/10/2024	Conventional/Projector and Extra Topic
2	3	Implementation of SDT	15/10/2024	24/10/2024	Conventional/Projector and Extra Topic
3	3	Intermediate languages, Declarations,	17/10/2024	24/10/2024	Conventional/Projector
4	3	Assignment Statements	21/10/2024	4/11/2024	Conventional/Projector
5	3	Boolean Expressions	22/10/2024	4/11/2024	Conventional/Projector
6	3	Case Statements	22/10/2024	4/11/2024	Conventional/Projector
7	3	A simple Code generator from DAG	24/10/2024	5/11/2024	Conventional/Projector
8	3	Issues in the design of code generator	28/10/2024	7/11/2024	Conventional/Projector
9	3	The target machine	29/10/2024	11/11/2024	Conventional/Projector
10	4	Peephole Optimization	4/11/2024	11/11/2024	Conventional/Projector
11	3	Error Handling-Type checking	5/11/2024 7/11/2024	12/11/2024	Conventional/Projector
CO4					
1	4	Principal Sources of Optimization	11/11/2024	14/11/2024	Conventional/Projector

2	4	Optimization of Basic Blocks	12/11/2024 14/11/2024	18/11/2024 (2 Lectures)	Conventional/Projector
3	3	DAG representation of Basic Blocks	18/11/2024 19/11/2024	19/11/2024	Conventional/Projector
4	4	Introduction to Global Data Flow Analysis	28/11/2024	21/11/2024	Conventional/Projector
5	3	Runtime Storage management	2/12/2024	28/11/2024	Conventional/Projector
6	4	Storage Organization	3/12/2024	28/11/2024	Conventional/Projector
7	4	Static Storage Management	3/12/2024	2/12/2024	Conventional/Projector
8	4	Heap Storage management	5/12/2024	3/12/2024	Conventional/Projector
9	4	Access to non-Local Names	9/12/2024	5/12/2024	Conventional/Projector
10	4	Parameter Passing	9/12/2024	5/12/2024	Conventional/Projector

Final

PANIPAT INSTITUTE OF ENGINEERING AND TECHNOLOGY PANIPAT
DEPARTMENT OF INFORMATION TECHNOLOGY

LESSON PLAN

Subject: Software Project Management
Session: 2024-25

Subject code: PE-IT-D409A
Semester: VII

S. No	Topic	No. of Lectures	Planned Date	Actual Date	Teaching Methodology	COs
UNIT 1: Conventional Software Management						
1	Evolution of Software Economics	1	28/8/24	2/9	Lecture, Case Study	CO1
2	Improving Software Economics: Reducing Product Size	1	3/9/24	3/9	Lecture, Discussion	CO1
3	Improving Software Economics: Software Processes	1	4/9/24	9/9	Lecture, Diagram-based Learning	CO1
4	Improving Software Economics: Team Effectiveness	1	5/9/24	10/9	Lecture, Interactive Session	CO1
5	Automation Through Software Environments	1	9/9/24	12/9	Lecture, Real-world Examples	CO1
6	Principles of Modern Software Management	1	10/9/24	16/9	Lecture, Case Study	CO1
UNIT 2: Software Management Process						
7	Life Cycle Phases: Inception	1	12/9/24	17/9	Lecture, Diagram-based Learning	CO2
8	Life Cycle Phases: Elaboration	1	16/9/24	23/9	Lecture, Group Activity	CO2
9	Life Cycle Phases: Construction	1	17/9/24	24/9	Lecture, Real-world Examples	CO2
10	Life Cycle Phases: Transition	1	19/9/24	30/9	Lecture, Case Study	CO2
11	Artifacts of the Process: Management, Engineering, Pragmatics	1	23/9/24	01/10	Lecture, Discussion	CO2
12	Model-Based Software Architectures	1	24/9/24	15/10	Lecture, Diagram-based Learning	CO2
13	Workflows of the Process	1	30/9/24	17/10	Lecture, Interactive Session	CO2
14	Checkpoints of the Process	1	3/10/24	21/10		CO2

UNIT 3: Software Management Disciplines

15	Iterative Process Planning	1	7/10/24	22/10	Lecture, Group Activity	CO3
16	Project Organizations and Responsibilities	1	8/10/24	24/10	Lecture, Role-playing Activity	CO3
17	Process Automation	1	10/10/24	28/10	Lecture, Real-world Examples	CO3
18	Project Control and Process Instrumentation	1	14/10/24	4/11	Lecture, Diagram-based Learning	CO3
19	Core Metrics and Management Indicators	1	15/10/24	5/11	Lecture, Case Study	CO3
20	Life Cycle Expectations	1	17/10/24	7/11	Lecture, Discussion	CO3
21	Process Discriminants	1	17/10/24	11/11	Lecture, Case Study	CO3

UNIT 4: Project Management and Control

22	Framework for Management and Control	1	21/10/24	12/11	Lecture, Diagram-based Learning	CO4
23	Data Collection	1	22/10/24	14/11	Lecture, Interactive Session	CO4
24	Project Termination	1	24/10/24	18/11	Lecture, Case Study	CO4
25	Visualizing Progress	1	28/10/24	2/12	Lecture, Diagram-based Learning	CO4
26	Cost Monitoring	1	29/10/24	3/12	Lecture, Real-world Examples	CO4
27	Earned Value Analysis	1	4/11/24	3/12	Lecture, Problem Solving	CO4
28	Project Tracking and Change Control	1	5/11/24	5/12	Lecture, Discussion	CO4
29	Software Configuration Management	1	11/11/24	5/12	Lecture, Case Study	CO4
30	Managing Contracts and Contract Management	1	12/11/24	5/12	Lecture, Role-playing Activity	CO4

LESSON PLAN

Subject: Cyber Law and Ethics
Session: 2024-25

Subject code: OE-IT-401A
Semester: VII

S.No	Topic	No. of Lectures	CO Covered	Planned Date	Actual Date	Teaching Methodology
1	Evolution of Computer Technology, Emergence of Cyber Space	1	CO1	2-Sep-24	2/9	PPT, Chalk And Talk
2	Cyber Jurisprudence, Jurisprudence and Law	1		3-Sep-24	3/9	PPT, Chalk And Talk
3	Doctrinal approach, Consensual approach, Real approach	1		9-Sep-24	9/9	PPT, Chalk And Talk
4	Cyber Ethics, Cyber Jurisdiction, Hierarchy of Courts, Civil and Criminal Jurisdictions	1		10-Sep-24	10/9 12/9	PPT, Chalk And Talk
5	Cyberspace - Web space, Web hosting and Web Development agreement	1		12-Sep-24	16/9	PPT, Chalk And Talk
6	Legal and Technological, Significance of domain names, Internet as a tool for global access	1		16-Sep-24	17/9	PPT, Chalk And Talk
7	Overview of IT Act 2000, Amendments and Limitation of IT Act	1	CO2	17-Sep-24	23/9	PPT, Chalk And Talk
8	Digital Signatures, Cryptographic Algorithms	1		19-Sep-24	24/9	PPT, Chalk And Talk
9	Public Cryptography, Private Cryptography	1		23-Sep-24	30/9	PPT, Chalk And Talk
10	Electronic Governance, Legal Recognition of Electronic Records and Digital Signatures	1		24-Sep-24	1/10	PPT, Chalk And Talk
11	Certifying Authorities, Cyber Crime and Offences	1		30-Sep-24	15/10	PPT, Chalk And Talk
12	Network Services Providers Liability, Cyber Regulation Appellate Tribunal,	1		14-Oct-24	17/10	PPT, Chalk And Talk
13	Penalties and Adjudication	1		15-Oct-24	17/10	PPT, Chalk And Talk

14	Patent Law, Trademark Law, Copyright, Software - Copyright or Patented	1	CO3	21-Oct-24	21/10	PPT, Chalk And Talk
15	Domain names and Copyright disputes, Electronic Database and its protection	1		22-Oct-24	22/10 24/10	PPT, Chalk And Talk
16	IT Act and Civil Procedure Code	1		24-Oct-24	} 24/10	PPT, Chalk And Talk
17	IT Act and Criminal Procedure Code	1		28-Oct-24		PPT, Chalk And Talk
18	Relevant Sections of Indian Penal code, Reserve Bank of India Act	1		29-Oct-24		PPT, Chalk And Talk
19	Law relating to Employees and Internet, alternative dispute resolution, Online Dispute Resolution	1		31-Oct-24	28/10	PPT, Chalk And Talk
20	Evolution and development in E-Commerce, Paper vs Paperless Contracts	1	CO4	4-Nov-24	28/10 4/11	PPT, Chalk And Talk
21	E-Commerce Models: B2B, B2C, Business, Taxation	1		5-Nov-24	5/11	PPT, Chalk And Talk
22	Electronic Payments, Supply Chain, EDI, E-Markets	1		7-Nov-24	7/11 11/11	PPT, Chalk And Talk
23	Cyber Laws, Significance of Cyber Ethics	1		18-Nov-24	12/11	PPT, Chalk And Talk
24	Need of Cyber Regulations and ethics	1		19-Nov-24	14/11	PPT, Chalk And Talk
25	Ethics in Information Society	1		21-Nov-24	18/11	PPT, Chalk And Talk
26	Introduction to AI Ethics, Ethical Issues in AI and core principles	1		25-Nov-24	2/12	PPT, Chalk And Talk
27	Introduction to Blockchains	1		26-Nov-24	3/12	PPT, Chalk And Talk
28	Introduction to Blockchains Ethics	1		28-Nov-24	5/12	PPT, Chalk And Talk