



NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF ELECTRICAL ENGINEERING

LESSON PLAN (July-Dec 2024)

Name of Teacher: Ms.Uma Designation: Assistant Professor Subject Name: MFCS

Branch: M.Tech CSE Semester:1st Subject Code:MCS-18-101

Date of Start: 21-7-2025 Total Load: 30 hrs Date of Completion: 2-12-2024

Module/Unit-1:

S.No	Name of Topic	Hours
1	Probability mass, density, and cumulative distribution functions, Parametric families of distributions	2 hour 30 min
2	Expected value, variance, conditional expectation, Applications of the univariate and multivariate analysis,	2 hour 30 min
3	Central Limit Theorem, Probabilistic inequalities, Markov chains	2 hour 30 min
	Total	7 hour 30 min

Module/Unit 2-.....

S.No	Name of Topic	Hours
1	Random samples, sampling distributions of estimators	1 hour 40 min
2	Methods of Moments and Maximum Likelihood.	1 hour 40 min
	Total	3 hour 20 min

Module/Unit 3-.....

S.No	Name of Topic	Hours
1	Statistical inference, Introduction to multivariate statistical models	50 min
2	regression and classification problems	50 min
3	principal components analysis	50 min
4	The problem of overfitting model assessment	50 min
	Total	3 hour 20 min

Module/Unit 4-.....

S.No	Name of Topic	Hours
1	Isomorphism, Planar graphs, graph colouring, hamilton circuits and euler cycles	2 hour 30 min
2	PermutationsandCombinationswithandwithoutrepetition	1 hour 40 min
3	Specializedtechniques to solve combinatorial enumeration problems	1 hour 40 min
	Total	5 hour 50 min

Module/Unit 5-.....

S.No	Name of Topic	Hours
1	Data mining, Network protocols, analysis of Web traffic	1 hour 40 min
2	Computer security, Softwareengineering,Computerarchitecture	1 hour 40 min
3	operatingsystems,distributedsystems, Bioinformatics, Machine learning.	2 hour 30 min
	Total	5 hour 50 min

Module/Unit 6-.....

S.No	Name of Topic	Hours
1	RecentTrendsinvariousdistributionfunctionsinmathematicalfieldofcomputerscience	2 hour 30 min
2	for varying fields like bioinformatics, soft computing and computer vision.	1 hour 40 min
	Total	4 hour 10 min

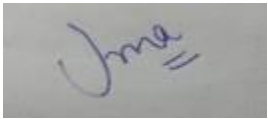
TEXT BOOKS:

1. Discrete Mathematics with Applications by Susanna S. Epp
 - o Emphasizes logic and proof techniques, ideal for beginners.

2. How to Prove It: A Structured Approach by Daniel J. Velleman
- Excellent for learning mathematical proofs and logical reasoning.

REFERENCE BOOKS:

1. JohnVince,FoundationMathematicsforComputerScience,Springer.
2. K.Trivedi.ProbabilityandStatisticswithReliability,Queuing,andComputerScience Applications. Wiley.
3. M.MitzenmacherandE.Upfal.ProbabilityandComputing:RandomizedAlgorithmsand Probabilistic Analysis.
4. AlanTucker,AppliedCombinatorics,Wiley



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NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE

LESSON PLAN (July-Dec 2025)

Name of Teacher: Mr. Manoj Kumar

Designation: Asstt. Professor

Subject Name: ADVANCED DATA STRUCTURES

Branch: M.Tech-CSE Semester: 1ST Subject Code: MCS-18-102

Date of Start:

Total Load: 25hrs

Date of Completion:

Module/Unit-1: DICTIONARIES AND HASHING

S.No	Name of Topic	Hours
1	Dictionaries: Definition, Dictionary Abstract Data Type	1
2	Implementation of Dictionaries. Hashing: Review of Hashing, Hash Function	1
3	Collision Resolution Techniques in Hashing, Separate Chaining, Open Addressing	2
4	Linear Probing, Quadratic Probing, Double Hashing, Rehashing, Extendible Hashing.	1
	Total	5

Module/Unit 2-SKIP LISTS

S.No	Name of Topic	Hours
1	Need for Randomizing Data Structures	1
2	Algorithms, Search and Update Operations on Skip Lists	1
3	Probabilistic Analysis of Skip Lists	1
4	Deterministic Skip Lists	2
	Total	5

Module/Unit-3: TREES

S.No	Name of Topic	Hours
1	Trees	1
2	Binary Search Trees	1
3	AVL Trees	1
4	Red Black Trees	1
5	2-3 Trees	1
6	B-Trees	1
7	Splay Trees	1
	Total	7

Module/Unit-4: TEXT PROCESSING

S.No	Name of Topic	Hours
1	String Operations, Brute-Force Pattern Matching, The Boyer- Moore Algorithm	1
2	The Knuth-Morris-Pratt Algorithm, Standard Tries, Compressed Tries	1
3	Suffix Tries, The Huffman Coding Algorithm, The Longest Common Subsequence Problem	1
4	Applying Dynamic Programming to the LCS Problem	1
	Total	4

Module/Unit-5: COMPUTATIONAL GEOMETRY

S.No	Name of Topic	Hours
1	One Dimensional Range Searching	1
2	Two Dimensional Range Searching, Constructing a Priority Search Tree	1
3	Searching a Priority Search Tree	1
4	Priority Range Trees, Quadtrees, k- D Trees.	1
	Total	4

REFERENCES

1. Mark Allen Weiss, Data Structures and Algorithm Analysis in C++, 2nd Edition, Pearson, 2004
2. M T Goodrich Roberto Tamassia, Algorithm Design, John Wiley, 2002



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NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF M.Tech CSE LESSON PLAN (July-Dec 2025)

Name of Teacher: Pinkee Designation: Assistant Professor Subject Name: Introduction To
Intelligent Systems

Branch: M.Tech CSE

Semester: 1st

Subject Code: MCS-18-107

Date of Start: 21/7/25

Total Load: 31 hrs

Date of Completion: 02/12/25

Module/Unit-1: Biological foundations to intelligent systems I:

S.No	Name of Topic	Hours
1	Artificial neural networks, ,	50 Min
2	Back propagation networks,	50 Min
3	Radial basis function networks	50 Min
4	and recurrent networks	50 Min
	Total	4 Hrs

Module/Unit 2- Biological foundations to intelligent systems II:

S.No	Name of Topic	Hours
1	Fuzzy logic,	50 Min
2	knowledge Representation	50 Min
3	and inference mechanism,	50 Min
4	genetic algorithm	50 Min
5	and fuzzy neural networks.	50 Min
	Total	4 Hrs

Module/Unit 3- Search Methods Basic concepts of graph and tree search

S.No	Name of Topic	Hours
1	Three simple search methods: breadth- first search, .	50 Min
2	depth-first search,	50 Min
3	iterative deepening search.	50 Min
4	Heuristic search methods: best-first search	50 Min
5	admissible evaluation functions	50 Min
6	hillclimbing search	50 Min
7	Optimisation and search such as stochastic annealing	50 Min
8	and genetic algorithm.	50 Min
	Total	7 Hrs

Module/Unit 4- Knowledge representation and logical inference Issues in knowledge representation

S.No	Name of Topic	Hours
1	Knowledge representation and logical inference Issues in knowledge representation.	50 Min
2	Structured representation, such as frames,	50 Min
3	and scripts	50 Min
4	semantic networks	50 Min
5	and conceptual graphs	50 Min
6	Formal logic and logical inference	50 Min
7	Knowledge-based systems structures,	50 Min
8	Its basic components	50 Min
9	Ideas of Blackboard architectures.	50 Min
	Total	8 Hrs

Module/Unit 5- Reasoning under uncertainty and Learning Techniques

S.No	Name of Topic	Hours
1	Reasoning under uncertainty and Learning Techniques on uncertainty reasoning such as Bayesian reasoning,	50 Min
2	Certainty factors	50 Min
3	and Dempster-Shafer Theory of Evidential reasoning,	50 Min
4	A study of different learning	50 Min
5	and evolutionary algorithms,	50 Min
6	such as statistical learning	50 Min
7	and induction learning.	50 Min
	Total	6 Hrs

Module/Unit 6- ADVANCED TOPICS

S.No	Name of Topic	Hours
1	Recent trends in Fuzzy logic,	50 Min
2	Recent developments in Knowledge Representation	50 Min
	Total	2 Hrs

TEXT BOOKS/ REFERENCE BOOKS:

1. Luger G.F. and Stubble field W.A.(2008). Artificial Intelligence: Structures and strategies for Complex Problem Solving. Addison Wesley, 6th edition.
2. Russell S. and Norvig P.(2009). Artificial Intelligence: A Modern Approach. Prentice-Hall, 3rd edition.



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NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

LESSON PLAN (July-Dec 2025)

Name of Teacher: Bhawna Aggarwal

Designation: A.P

Subject Name: Distributed System

Branch: M.Tech CSE

Semester: 1st

Subject Code:MCS-18-111

Date of Start: 21/7/2025

Total Load: 42hrs.

Date of Completion: 14/11/2025

Module 1

S.No	Name of Topic	Hours
1	Distributed data processing	50 Min
2	DDBS; Advantages and disadvantages of DDBS	50 Min
3	Problem areas,	50 Min
4	Overview of database and computer network concepts	50 Min
5	Transparencies in a distributed DBMS	50 Min
6	Distributed DBMS architecture	50 Min
7.	Global directory issues	50 Min
8.	Revision	50 Min
	Total	6.6

Module 2

S.No	Name of Topic	Hours
1	DISTRIBUTED DATABASE DESIGN Alternative design strategies	50 Min
2	Distributed design issues	50 Min
3	Fragmentation	50 Min
4	Data allocation	50 Min
5	SEMANTICS DATA CONTROL View management	50 Min
6	Data security	50 Min
7	Semantic Integrity Control	50 Min
8	Objectives of query processing	50 Min
9	Characterization of query processors	50 Min
10	Layers of query processing	50 Min
11	Query decomposition	50 Min
12	Localization of distributed data	50 Min
13	Revision	50 Min

	Total	10.8
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Module 3

S.No	Name of Topic	Hours
1	Factors governing query optimization	50 Min
2	Centralized query optimization	50 Min
3	Ordering of fragment queries	50 Min
4	Distributed query optimization algorithms	50 Min
5	The transaction concept	50 Min
6	Goals of transaction management	50 Min
7	Characteristics of transactions	50 Min
8	Taxonomy of transaction models	50 Min
9	Concurrency control in centralized database systems	50 Min
10	Concurrency control in DDBSs	50 Min
11	Distributed concurrency control algorithms	50 Min
12	Deadlock management	50 Min
13	Revision	50 Min
	Total	10.8

Module 4

S.No	Name of Topic	Hours
1	Reliability issues in DDBSs	50 Min
2	Types of failures	50 Min
3	Reliability techniques	50 Min
4	Commit protocols	50 Min
5	Recovery protocols	50 Min
6	Revision	50 Min
	Total	6

Module 5

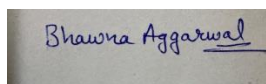
S.No	Name of Topic	Hours
1	Parallel architectures	50 Min
2	parallel query processing	50 Min
3	optimization	50 Min
4	load balancing	50 Min
5	Revision	50 Min
	Total	4.1

Module 6

S.No	Name of Topic	Hours
1	Mobile Databases	50 Min
2	Distributed Object Management	50 Min
3	Multi-databases	50 Min
4	Revision	50 Min
	Total	3.3

REFERENCES

1. Principles of Distributed Database Systems, M.T. Ozsü and P. Valduriez, Prentice-Hall, 1991.
2. Distributed Database Systems, D. Bell and J. Grimson, Addison-Wesley, 1992



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NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE

LESSON PLAN (MAY-DEC 2024)

Name of Teacher: NehaJayant

Designation: Assistant prof. SubjectName:: RMIPR

Branch: M.TECH

Semester: IST

Subject Code:RMI-101

Date of Start: 21.7.25

Total Load: 30hrs Date of Completion: 2.12.25

Module1:

S.No	Name of Topic	Hours
1	Meaning of research problem	50min
2	Sources of research problem	50min
3	Criteria Characteristics of a good research problem	50min
4	Errors in selecting a research problem	50min
5	Approaches of investigation of solutions for research problem	50min
6	data collection	50min
7	analysis	50min
8	interpretation	50min
9	Necessary instrumentations	50min
	Total	8hr

MODULE 2-

S.No	Name of Topic	Hours
1	Effective literature studies approaches	50min
2	analysis Plagiarism, Research ethics	50min
3	Revision	
	Total	3 hr

MODULE 3:

S.No	Name of Topic	Hours
1	Effective technical writing	50min
2	how to write report	50min
3	Paper Developing a Research Proposal	50min
4	Format of research proposal	50min
5	a presentation and assessment by a review committee	50min
	Total	4 hr

MODULE4:

S.No	Name of Topic	50min
1	Nature of Intellectual Property: Patents	50min
2	Designs, Trade and Copyright	50min
3	Process of Patenting and Development	50min
4	technological research	50min
5	innovation	50min
6	patenting, development. International Scenario: International cooperation on Intellectual Property	50min
7	Procedure for grants of patents	50min
8	Patenting under PCT	50min
	Total	7 hr

MODULE:5

S.No	Name of Topic	50min
1	Patent Rights: Scope of Patent Rights	50min
2	Licensing and transfer of technology	50min
3	Patent information and databases	50min
4	Geographical Indications	50min
	Total	3 hr

MODULE6:

S.No	Name of Topic	50min
1	New Developments in IPR: Administration of Patent System	50min
2	New developments in IPR	50min
3	IPR of Biological Systems	50min
4	Computer Software etc	50min
5	Traditional knowledge Case Studies	50min
6	IPR and IITs	50min
	Total	5hr

TEXT BOOKS:

1. Stuart Melville and Wayne Goddard, “Research methodology: an introduction for science & engineering students”
2. Wayne Goddard and Stuart Melville, “Research Methodology: An Introduction”
3. Ranjit Kumar, 2nd Edition , “Research Methodology: A Step by Step Guide for beginners”
4. Halbert, “Resisting Intellectual Property”, Taylor & Francis Ltd ,2007.
5. Mayall , “Industrial Design”, McGraw Hill, 1992. 6. Niebel , “Product Design”, McGraw Hill, 1974.

REFERENCE BOOKS:

1. Asimov, “Introduction to Design”, Prentice Hall, 1962.
2. Robert P. Merges, Peter S. Menell, Mark A. Lemley, “ Intellectual Property in New Technological Age”, 2016
3. T. Ramappa, “Intellectual Property Rights Under WTO”, S. Chand, 2008



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NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE

LESSON PLAN (July-dec 2025)

Name of Teacher: Prof. (Dr.) Kuldeep Tomar Designation: Professor Branch: M.Tech - CSE
Subject Name: STRESS MANAGEMENT BY YOGA Semester: 6th Subject Code: AUD-07A
Total Load: 34 Hrs

Module/Unit-1

S.No	Name of Topic	Hours
1	Definitions of the eight parts of yoga. (Ashtanga)	4

Module/Unit 2

S.No	Name of Topic	Hours
1	Yam and Niyam, Do's and Don't's in life.	3
2	i) Ahinsa, Satya, astheya, bramhacharya and aparigraha	5
3	ii) Shaucha, santosh, tapa, swadhyay, ishwarpranidhan	5
4	Revision and Class Test	2

Module/Unit 3

S.No	Name of Topic	Hours
1	Asan and Pranayama	3
2	i) Various Yog poses and their benefits for mind & body	5
3	ii) Regularization of breathing techniques and its effects-Types of pranayama	5
4	Revision and Class Test	2

COURSE OUTCOMES:

After completion of the course, students would be able to:

- Develop a healthy mind in a healthy body thus improving social health also.
- Improve efficiency.

REFERENCES BOOKS:

- „Yogic Asanas for Group Training-Part-I”: Janardan Swami Yogabhyasi Mandal, Nagpur
- “Rajayoga or conquering the Internal Nature” by Swami Vivekananda, Advaita Ashrama(Publication Department), Kolkata

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NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE

LESSON PLAN (July-Dec 2025)

Name of Teacher: Mr. Manoj Kumar

Designation: Asstt. Professor

Subject Name: ADVANCED DATA STRUCTURES LAB

Branch: M.Tech- CSE Semester: 1ST Subject Code: MCS-18-102

Date of Start:

Total Load: 24 hrs

Date of Completion:

Module/Unit-1: DICTIONARIES AND HASHING

S.No	Name of Topic	Hours
1	Program to Implementing BFS.	1
2	Program to Implementing DFS.	1
3	Program to Implementing strongly connected components	1
4	Program to Implementing Greedy Programming using 8 queen problem	1
	Total	4

Module/Unit 2-SKIP LISTS

S.No	Name of Topic	Hours
1	Program to Implementing compute maximum matching	1
2	Programs on Search and Update Operations on Skip Lists	2
3	Program on Probabilistic Analysis of Skip Lists	2
	Total	5

Module/Unit-3: TREES

S.No	Name of Topic	Hours
1	Program on simple Tree	1
2	Program on Binary Search Trees	1
3	Program on AVL Trees	1
4	Program on Red Black Trees	1
5	Program on 2-3 Trees	1
6	Program on B-Trees	1
7	Program on Splay Trees	1
	Total	7

Module/Unit-4: TEXT PROCESSING

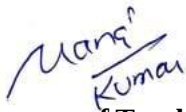
S.No	Name of Topic	Hours
1	Program on matching	1
2	Program on The Knuth-Morris-Pratt Algorithm	1
3	Program on The Huffman Coding Algorithm	1
4	Dynamic Programming to the LCS Problem	1
	Total	4

Module/Unit-5: COMPUTATIONAL GEOMETRY

S.No	Name of Topic	Hours
1	Program on One Dimensional Range Searching	1
2	Program on Two Dimensional Range Searching	1
3	Program on Searching a Priority Search Tree	1
4	Program on Priority Range Trees	1
	Total	4

REFERENCES

1. Mark Allen Weiss, Data Structures and Algorithm Analysis in C++, 2nd Edition, Pearson, 2004
2. M T Goodrich Roberto Tamassia, Algorithm Design, John Wiley, 2002


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NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF M.Tech CSE LESSON PLAN (July-Dec 2025)

Name of Teacher: Pinkee Designation: Assistant Professor Subject Name: Introduction To
Intelligent Systems LAB
Branch: M.Tech CSE Semester: 1st Subject Code: MCS-18-107A
Date of Start: 21/7/25 Total Load: 31 hrs Date of Completion: 02/12/25

LAB EXPERIMENTS

S.No	Name of Experiments	Hours
1	Study of PROLOG.	100 Min
2	Write a program to solve 8-queens problem.	100 Min
3	Solve any problem using depth first search.	100 Min
4	Solve any problem using best first search.	100 Min
5	Solve 8- puzzle problem using best first search.	100 Min
6	Solve Robot (traversal) problem using means End Analysis.	100 Min
7	Solve Traveling Salesman problem.	100 Min
8	Program to find out union and intersection of two lists.	100 Min
9	Program to calculate factorial of a given number	100 Min
Total		15 Hrs

TEXT BOOKS/ REFERENCE BOOKS:

1. Luger G.F. and Stubble field W.A.(2008). Artificial Intelligence: Structures and strategies for Complex Problem Solving. Addison Wesley, 6th edition.
2. Russell S. and Norvig P.(2009). Artificial Intelligence: A Modern Approach. Prentice-Hall, 3rd edition.

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NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF M.Tech CSE

LESSON PLAN (July-Dec 2025)

Name of Teacher: Ms. Nitika Designation: Assistant Professor Subject Name: Cloud Computing

Branch: M.Tech CSE

Semester: 3rd

Subject Code: MCS-18-304

Date of Start: 14/7/25

Total Load: 40 hrs

Date of Completion: 21/11/25

Module/Unit-1: Introduction to Cloud Computing

S.No	Name of Topic	Hours
1	Introduction to Cloud Computing	50 Min
2	Online Social Networks and Applications	50 Min
3	Cloud introduction and overview	50 Min
4	Different clouds,	50 Min
5	Risks	50 Min
6	Novel applications of cloud computing	50 Min
	Total	5 Hrs.

Module/Unit 2- Cloud Computing Architecture, Cloud Deployment Models

S.No	Name of Topic	Hours
1	Requirements architecture,	50 Min
2	Introduction Cloud computing	50 Min
3	On Demand Computing Virtualization at the infrastructure level	50 Min
4	Security in Cloud computing environments,	50 Min
5	CPU Virtualization	50 Min
6	A discussion on Hypervisors Storage Virtualization Cloud Computing Defined	50 Min
7	The SPI Framework for Cloud Computing	50 Min
8	The Traditional Software Model,	50 Min
9	The Cloud Services Delivery Model.	50 Min
10	Key Drivers to Adopting the Cloud,	50 Min
11	The Impact of Cloud Computing on Users,	50 Min
12	Governance in the Cloud	50 Min
13	Barriers to Cloud Computing Adoption in the Enterprise.	50 Min
	Total	11 Hrs

Module/Unit 3- Security Issues in Cloud Computing, Identity and Access Management

S.No	Name of Topic	Hours
1	Infrastructure Security	50 Min
2	Infrastructure Security: The Network Level,	50 Min
3	The Host Level, The Application Level,	50 Min
4	Data Security and Storage,	50 Min
5	Aspects of Data Security,	50 Min
6	Data Security Mitigation Provider Data and Its Security	50 Min
7	Trust Boundaries and IAM,	50 Min
8	IAM Challenges, Relevant IAM Standards	50 Min
9	and Protocols for Cloud Services, IAM Practices in the Cloud,	50 Min
10	Cloud Authorization Management	50 Min
	Total	9 Hrs

Module/Unit 4- Security Management in the Cloud, Privacy Issues

S.No	Name of Topic	Hours
1	Security Management Standards,	50 Min
2	Security Management in the Cloud,	50 Min
3	Availability Management: SaaS, PaaS, IaaS	50 Min
4	Privacy Issues, Data Life Cycle	50 Min
5	Key Privacy Concerns in the Cloud, Protecting Privacy,	50 Min
6	Changes to Privacy Risk Management and Compliance in Relation to Cloud Computing,	50 Min
7	Legal and Regulatory Implications	50 Min
8	U.S. Laws and Regulations	50 Min
9	International Laws and Regulations.	50 Min
	Total	8 Hrs

Module/Unit 5- Audit and Compliance:

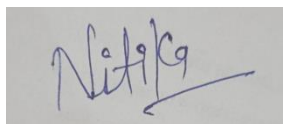
S.No	Name of Topic	Hours
1	Internal Policy Compliance,	50 Min
2	Governance, Risk, and Compliance (GRC),	50 Min
3	Regulatory/ External Compliance,	50 Min
4	Cloud Security Alliance	50 Min
5	Auditing the Cloud for Compliance,	50 Min
6	Security-as-a-Cloud.	50 Min
	Total	5 hrs.

Module/Unit 6- ADVANCED TOPICS

S.No	Name of Topic	Hours
1	Recent developments in hybrid cloud and cloud security.	50 Min
2	Recent developments in cloud security.	50 Min
	Total	2 Hrs

TEXT BOOKS/REFERENCE BOOKS:

1. Cloud Computing Explained: Implementation Hand book for Enterprises, John Rhoton, Publication Date: November 2, 2009
2. Cloud Security and Privacy: An Enterprise Perspective on Risks and Compliance (Theory in Practice), Tim Mather, ISBN-10: 0596802765, O'Reilly Media, September 2009



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NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF ELECTRICAL ENGINEERING

LESSON PLAN (July-Dec 2024)

Name of Teacher: Ms.Uma Designation: Assistant Professor Subject Name: CMEP

Branch: CSE Semester: 2nd Subject Code: OEC-104A

Date of Start: 24-7-2025 Total Load: 30 hrs 30 min

Date of Completion: 21-11-2025

Module/Unit-1:

S.No	Name of Topic	Hours
1	Introduction and Overview of the Strategic Cost Management Process	2 hour 30 min
	Total	2 hour 30 min

Module/Unit 2-.....

S.No	Name of Topic	Hours
1	Cost concepts in decision-making; Relevant cost, Differential cost, Incremental cost	1 hour 40 min
2	Opportunity cost. Objectives of a Costing System; Inventory valuation	1 hour 40 min
3	Creation of a Database for operational control; Provision of data for Decision-Making.	2 hour 30 min
	Total	5 hour 50 min

Module/Unit 3-.....

S.No	Name of Topic	Hours
1	Project: meaning, Different types, why to manage, cost overruns centres, various stages of project execution:	1 hour 40 min
2	conception to commissioning. Project execution as conglomeration of technical and nontechnical activities. Detailed Engineering activities	2 hour 30 min
3	Pre project execution main clearances and documents Project team: Role of each member.	1 hour 40 min
4	Importance Project site: Data required with significance. Project contracts. Types and contents	50 min
5	Project execution Project cost control. Bar charts and Network diagram	1 hour 40 min
6	Project commissioning: mechanical and process.	50 min

	Total	9 hour 10 min

Module/Unit 4-.....

S.No	Name of Topic	Hours
1	Cost Behavior and Profit Planning Marginal Costing; Distinction between Marginal Costing and Absorption Costing; Break-even Analysis, Cost-Volume-Profit Analysis. Various decision-making problems. Standard Costing and Variance Analysis	2 hour 30 min
2	Pricing strategies: Pareto Analysis. Target costing, Life Cycle Costing. Costing of service sector. Just-in-time approach, Material Requirement Planning, Enterprise Resource Planning,	2 hour 30 min
3	Total Quality Management and Theory of constraints. Activity-Based Cost Management, Benchmarking; Balanced Score Card and Value-Chain Analysis. Budgetary Control; Flexible Budgets;	1 hour 40 min
4	Performance budgets; Zero-based budgets. Measurement of Divisional profitability pricing decisions including transfer pricing.	1 hour 40 min
	Total	8 hour 20 min

Module/Unit 5-.....

S.No	Name of Topic	Hours
1	Quantitative techniques for cost management, Linear Programming,	1 hour 40 min
2	PERT/CPM, Transportation problems	1 hour 40 min
3	Assignment problems, Simulation, Learning Curve Theory.	2 hour 30 min
	Total	5 hour 50 min

TEXT BOOKS:

3. **"Project Management: A Systems Approach to Planning, Scheduling, and Controlling"**
by Harold Kerzner

2. "Engineering Economy"

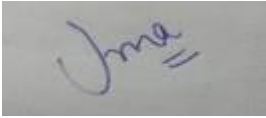
by William G. Sullivan, Elin M. Wicks, and C. Patrick Koelling

REFERENCE BOOKS:

5. John Vince, Foundation Mathematics for Computer Science, Springer.
6. K. Trivedi. Probability and Statistics with Reliability, Queuing, and Computer Science Applications. Wiley.

7. M.MitzenmacherandE.Upfal.ProbabilityandComputing:RandomizedAlgorithmsand Probabilistic Analysis.

8. AlanTucker,AppliedCombinatorics,Wile



Signature of Teacher



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Approved by IQAC Director/Dean Academics



NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

LESSON PLAN (JUNE-DEC 2025)

Name of Teacher: Neha jayant

Designation: Assistant Professor

Subject Name :MESSAGE OF BHAGWAT GITA

BranchM.techSemester:3rd

Subject Code:AC-02

Date of Start: 20-01-25

Total Load:12 hours 30 minDate of Completion: 14-11-2025

Module/Unit-1:

S.No	Name of Topic	Hours
1	Introduction: Relevance of Bhagavad Gita today- Background of Mahabharatha.	50 min
2	ArjunaVishada Yoda: Arjuna's Anguish and Confusion- Symbolism of Arjuna's Chariot.	50 min
3	Sankhya Yoga: Imporance of Self-Knowledge-	50 min
4	Deathlessness : Indestructibility of Consiousness- Being Established in Wisdom	50 MIN
5	Qualities of a Sthita-prajna.	50 MIN
	Total	4hours 10 MIN

Module/Unit 2-

S.No	Name of Topic	Hours
1	Karma Yoga: Yoga of Action – Living in the present-	50 min
2	Dedicated Action without Anxiety over Results –	50 min
3	Concept of Swadhrma	50 min
4	Dhyana Yoga: Tuning the Mind- Quantity, Quality	50 min
5	Direction of Thoughts- Reaching Inner Silence.	50 min
	Total	4hours 10 min

Module/Unit 3

S.No	Name of Topic	Hours
1	Bhakti Yoga: Yoga of Devotion – Form and Formless Aspects of the Divine	50 min
2	Inner Qualities of a True Devotee.	50 min
3	GanatrayaVibhaga Yoga: Dynamics of the Three Gunas: Tamas, Rajas	50 min
4	Sattva- Going Beyond the Three Gunas-	50 min
5	Description of A Gunatheetha.	50 min
	Total	4 hours 10 min

COURSE OUTCOMES: Upon completion of the course, the student should be able to realize the Relevance of Bhagavad Gita today Yoga to devotion, realize the responsibilities and duty in the society.

Textbooks SwamiChinmayananda, : The Holy Geeta”, Central Chinmaya Mission Trust 2002. Swami Chinmayananda, “ A Manual of Self Unfordment”, Central Chinmaya Mission Trust, 2001.



Signature of Teacher



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