

K L Deemed to be University Department of CSE -- KLVZA Course Handout 2020-2021, Odd Sem

2020-2021, Odu Schi						
Course Title	:AI					
Course Code	:19CS2212					
L-T-P-S Structure	: 2-0-2-0					
Pre-requisite	:					
Credits	: 3					
Course Coordinator	:TATAVARTHY SANTHI SRI					
Team of Instructors	:					
Teaching Associates	:					

Syllabus: Introduction to AI: Intelligent Agents, Solving problems by searching, problem-solving agents, well defined problems and solutions with examples. Applications of AI:- ANN, Fuzzy Systems, NLP, Introduction to Expert systems. Uninformed search strategies-BFS, DFS, Iterative deepening, bidirectional search. Heuristic Search Techniques: Greedy BFS, A*, memory bounded, heuristic functions. Local &Adversarial search: Optimization problems, hill climbing search, simulated annealing, local beam search, genetic algorithms. Online search agents and unknown environments. Optimal decisions in games, alphabeta pruning, cutting of search, forward pruning, Constraint satisfaction problems:-Inference in CSPs, back tracking search for CSPs, Knowledge and reasoning: knowledge based agents, Logic, propositional logics and horn clauses, first order logic, Inference in first order logic, Propositional versus first order inference, unification and lifting, forward & backward chaining, resolution. Handing uncertainty: Quantifying uncertainty, basic probability notation, Baye's theorem, Probabilistic reasoning, representation of conditional distributions, probabilistic reasoning overtime, Hidden Markov model, Kalman filters.

Text Books :1. Russel and Norvig, 'Artificial Intelligence', third edition, Pearson Education, PHI, (2015) 2. Elaine Rich & Kevin Knight, 'Artificial Intelligence', 3nd Edition, Tata McGrawHill Edition, Reprint(2008)

Reference Books : 1. Patrick Henry Winston, 'Artificial Intelligence', Pearson Education (2003) 2. G. Luger, W. A. Stubblefield, "Artificial Intelligence", Third Edition, Addison- Wesley,(2007) 3. William F. Clocksin, Christopher S. Mellish-Programming in Prolog-Springer (2003)

Course Rationale: With the usage of Internet and World Wide Web increasing day by day, the field of AI and its techniques are being used in many areas such as machine learning, which directly affect human life. Various techniques for encoding knowledge in computer systems such as predicate logic, production rules, and semantic networks find application in real world problems. The fields of AI such as Game Playing and Probability and uncertainty techniques are also important.

Course Objectives: The emphasis of the course is on understanding the various search algorithms that are useful to solve AI problems, knowledge representation schemes, Game Playing and Probability and uncertainty techniques and to solving AI problems using PYTHON language.

COURSE OUTCOMES (COs):

CO NO	Course Outcome (CO)	PO/PSO	Blooms Taxonomy Level (BTL)
CO1	Understand the problem, well defined problems and their solutions, Uninformed and Informed search.	PSO2,PO1,PO2	2
CO2	Apply adversarial search algorithms to solve Game	PSO2,PO2,PO7	3

	playing problems and Constraint satisfaction problems		
CO3	Distinguish between Building Knowledge and reasoning between propositional logics and first order logic and solve inference based problem using forward and backward reasoning, resolution.	PSO2,PO4,PO6,PO7	4
CO4	Analyzing uncertainty using Bayes theorm, Hidden Markov model and Kalman filters.	PO1,PO3,PO4,PO6,PO7,PSO2	4
CO5	Choose the appropriate programming logic techniques solve any real world AI problems in the laboratory	PSO2,PO5	5

COURSE OUTCOME INDICATORS (COIs)::

Outcome No.	Highest BTL	COI-1	COI-2	COI-3	COI-4	COI-5
CO1	2	Btl-1 Recall the Foundations of AI, Agents and Structure of Agents	Btl-2 Understand Uninformed & informed Search Strategies.			
CO2	3	Btl-1 Recognize the Concepts of Local Search	Btl-2 Understand Games; Build General Game Tree in Game Playing. Compare and contrast Min Max Algorithms, alpha Beta Pruning	Btl-3 Apply the Concept of Constrain Satisfaction		
CO3	4	Btl-1 Recognize the Outline about the Knowledge Based Agents, propositional theorem proving	Btl-2 Understand knowledge representation using predicate logic Analyse	Btl-3 Apply the syntax and Semantics of First order logic. Assess knowledge representation using rules	Btl-4 Analyze Comparison of forward and backward reasoning, Resolution	
CO4	4	Btl-1 Recognize the Outline of uncertainty using basic probability notation Baye's theorem,	Btl-2 Understand the Probabilistic Reasoning, Representation of knowledge in uncertain domain	Btl-3 Apply Probabilistic reasoning over time, Functioning of Hidden Markov Model		
CO5	5	Btl-1 Illustration of Informed and Uninformed search	Btl-2 Implementation of game tree on different types of games.	Btl-3 Applying logical statements on facts.	Btl-4 Experiment with uncertainty and probability	Btl-5 Evaluation of hidden markov model and kalman filters.

PROGRAM OUTCOMES & PROGRAM SPECIFIC OUTCOMES (POs/PSOs)

Po No.	Program Outcome
PO1	Engineering Knowledge :An ability to apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization for the solution of complex engineering problems in engineering
PO2	Problem Analysis: An ability to identify, formulate, research literature, analyze complex engineering problems in mechanical engineering using first principles of mathematics, natural sciences and engineering sciences
PO3	Design/ development of solutions :An ability to design solutions for complex engineering problems and system component or processes that meet the specified needs considering public health & safety and cultural, societal & environment
PO4	Conduct investigations of complex problems :An ability to use research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of the information to obtain solutions to engineering problems
PO5	Modern tool usage :Ability to create, select and apply appropriate techniques, resources and modern engineering activities, with an understanding of the limitations
PO6	The engineer and society :Ability to apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice
PO7	Environment and sustainability Ability to demonstrate the knowledge of engineering solutions, contemporary issues understanding their impacts on societal and environmental contexts, leading towards sustainable development
PO8	Ethics : An ability to apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice
PO9	Individual and team work :An ability to function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings
PO10	Communication : Ability to communicate effectively oral, written reports and graphical forms on complex engineering activities
PO11	Project management and finance :Ability to demonstrate knowledge and understanding of the engineering and management principles and apply those one's own work, as a member and leader in team, to manage projects and in multi-disciplinary environments
PO12	Lifelong learning An ability to recognize the need for and having the preparation and ability to engage independent and life-long learning in broadest context of technological change
PSO1	An ability to design and develop software projects as well as Analyze and test user requirements.
PSO2	An Ability to gain working Knowledge on emerging software tools and technologies.

Lecture Course DELIVERY Plan:

S	Sess.No.	CO	COI Topic Book No[CH No] Learning		Teaching- Learning Methods	EvaluationComponents	
1		CO1	COI-	Course Handout explanation and Introduction to AI	T BOOK [1],CH 1.4-1.5, Page no 28-30	PPT,Talk	ALM,End Semester Exam,Home Assignment,Lab End Semester Exam,Lab In Semester Exam,LCE,SEM- EXAM1

Sess.No.	СО	COI	Торіс	Book No[CH No] [Page No]	Teaching- Learning Methods	EvaluationComponents
2	CO1	COI-	Intelligent Agents	T BOOK [1],CH 2.1-2.4, Page no 34-58	PPT,Talk	ALM,End Semester Exam,Home Assignment,Lab End Semester Exam,Lab In Semester Exam,LCE,SEM- EXAM1
3	CO1	COI-	Solving problems by searching	T BOOK [1,2],T.1. CH 3.1-3.2, Page no 64-81T.2. CH2.1, Page no. 25-30	PPT,Talk	ALM,End Semester Exam,Home Assignment,Lab End Semester Exam,Lab In Semester Exam,LCE,SEM- EXAM1
4	CO1	COI-	Uninformed search strategies: BFS, DFS, DLS	T BOOK [1],CH 3.4, Page no 81-91	PPT,Talk	ALM,End Semester Exam,Home Assignment,Lab End Semester Exam,Lab In Semester Exam,LCE,SEM- EXAM1
5	CO1	COI-	Uninformed search strategies: bidirectional search, Heuristic function, informed search strategies: GBFS	T BOOK [1],CH 3.5, Page no 92- 103	PPT,Talk	ALM,End Semester Exam,Home Assignment,Lab End Semester Exam,Lab In Semester Exam,LCE,SEM- EXAM1
6	CO1	COI- 2	Informed search strategies: A* Search	T BOOK [1],CH 3.5, Page no 92- 103	PPT,Talk	ALM,End Semester Exam,Home Assignment,Lab End Semester Exam,Lab In Semester Exam,LCE,SEM- EXAM1
7	CO2	COI-	Optimization problems: hill climbing search, simulated annealing, local beam search.	T BOOK [1],CH 4.1-4.1.3.Page no 120-126	PPT,Talk	ALM,End Semester Exam,Home Assignment,Lab End Semester Exam,Lab In Semester Exam,LCE,SEM- EXAM1

Sess.No.	СО	COI	Торіс	Book No[CH No] [Page No]	Teaching- Learning Methods	
8	CO2	COI- 2	Adversarial Search: Game playing, Mini-Max algorithm	T BOOK [1],CH 5.1-5.2, Page no 161-167	PPT,Talk	ALM,End Semester Exam,Home Assignment,Lab End Semester Exam,Lab In Semester Exam,LCE,SEM- EXAM1
9	CO2	COI- 2	Alpha-beta pruning, Cutting off search (Self Learning), forward pruning (Self Learning	T BOOK [1],CH 5.3, 5.4.1-5.4.3, Page no 167-169, 171-175	PPT,Talk	ALM,End Semester Exam,Home Assignment,Lab End Semester Exam,Lab In Semester Exam,LCE,SEM- EXAM1
10	CO2	COI- 1	Genetic algorithms, Introduction to Online search agents and unknown environments, Online DFS Agent	T BOOK [1],CH 4.1.4,4.5, page no 127-129, 147-153	PPT,Talk	ALM,End Semester Exam,Home Assignment,Lab End Semester Exam,Lab In Semester Exam,LCE,SEM- EXAM1
11	CO2	COI-	Constraint Satisfaction Problems (CSP) – Example: Map Colouring	T BOOK [1],CH 6.1, Page no 202- 205	PPT,Talk	ALM,End Semester Exam,Home Assignment,Lab End Semester Exam,Lab In Semester Exam,LCE,SEM- EXAM1
12	CO2	COI-	Crypt Arithmetic problem, Backtracking for CSPs, Local Search for CSPs	T BOOK [1],CH 6.1, 6.2 Page no 206-212.CH 6.3- 6.4, Page no 214- 222	PPT,Talk	ALM,End Semester Exam,Home Assignment,Lab End Semester Exam,Lab In Semester Exam,LCE,SEM- EXAM1
13	CO3	COI-	Knowledge based Reasoning: Logical Agents Propositional Logic, Horn Clauses	T BOOK [1],CH 7.1,7.2,7.3,7.4,7.5.3 Page no 238- 239,244-253, 256- 257	PPT,Talk	ALM,End Semester Exam,Home Assignment,Lab End Semester Exam,Lab In Semester Exam,LCE,SEM- EXAM2

Sess.No.	СО	COI	Торіс	Book No[CH No] [Page No]	Teaching- Learning Methods	EvaluationComponents
14	CO3	COI-	First Order Logic (Predicate Logic).	T BOOK [1],CH 8.2,8.3,8.4 Page no. 290-313	PPT,Talk	ALM,ATTN,End Semester Exam,Home Assignment,Lab End Semester Exam,Lab In Semester Exam,LCE,SEM- EXAM2
15	СОЗ	COI-	Unification	T BOOK [1],CH 9.2 Page no 326- 329	PPT,Talk	ALM,End Semester Exam,Home Assignment,Lab End Semester Exam,Lab In Semester Exam,LCE,SEM- EXAM2
16	CO3	COI-	Conversion to Clause Form & Resolution in Proposition logic	T BOOK [1],CH 7.5 Page no 249- 256	PPT,Talk	ALM,End Semester Exam,Home Assignment,Lab End Semester Exam,Lab In Semester Exam,LCE,SEM- EXAM2
17	СОЗ	COI-	Resolution in Predicate logic	T BOOK [1],CH 9.5 Page no 350- 353	PPT,Talk	ALM,End Semester Exam,Home Assignment,Lab End Semester Exam,Lab In Semester Exam,LCE,SEM- EXAM2
18	CO3	COI-3	Forward and Backward chaining	T BOOK [1],CH 9.3 Page no 330- 340	PPT,Talk	ALM,End Semester Exam,Home Assignment,Lab End Semester Exam,Lab In Semester Exam,LCE,SEM- EXAM2
19	CO4	COI-	Quantifying uncertainty, Basic Probability Notation	T BOOK [1],CH 13.1,13.2,13.3Page no 480-490	PPT,Talk	ALM,End Semester Exam,Home Assignment,Lab End Semester Exam,Lab In Semester Exam,LCE,SEM- EXAM2

Sess.No.	СО	COI	Торіс	Book No[CH No] [Page No]	Teaching- Learning Methods	EvaluationComponents
20	CO4	COI-	Conditional probability, Baye's Theorem, The Naïve Baye's Classifier	T BOOK [1],CH 13.5 Page no 495- 499	PPT,Talk	ALM,End Semester Exam,Home Assignment,Lab End Semester Exam,Lab In Semester Exam,LCE,SEM- EXAM2
21	CO4	COI-	Probabilistic Reasoning: Representation of knowledge under uncertain domain- Bayesian networks	T BOOK [1],CH14.1, 14.2Page no 510- 518	PPT,Talk	ALM,End Semester Exam,Home Assignment,Lab End Semester Exam,Lab In Semester Exam,LCE,SEM- EXAM2
22	CO4	COI-	Probabilistic Reasoning over time	T BOOK [1],CH 15.1,15.2 Page no 566-578	PPT,Talk	ALM,End Semester Exam,Home Assignment,Lab End Semester Exam,Lab In Semester Exam,LCE,SEM- EXAM2
23	CO4	COI-	Hidden Markov Models, Kalman Filter(Self Learning)	T BOOK [1],CH 15.3-15.4 Page no 578-590	PPT,Talk	ALM,End Semester Exam,Home Assignment,Lab End Semester Exam,Lab In Semester Exam,LCE,SEM- EXAM2
24	CO4	COI-	Other approaches to uncertain reasoning: Rule based systems, Fuzzy logic	T BOOK [1],CH 14.7 Page no 546- 550	PPT,Talk	ALM,End Semester Exam,Home Assignment,Lab End Semester Exam,Lab In Semester Exam,LCE,SEM- EXAM2

Lecture Session wise Teaching – Learning Plan

SESSION NUMBER: 1

Session Outcome: 1 Student will understand the importance of AI.

Session Outcome: 2 Student will learn the cos and syllabus and evaluation plan of the course.

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods

1/2020		1.	1	1
5	Attendance	2	Talk	NOT APPLICABLE
10	Course Handout explanation	1	PPT	NOT APPLICABLE
5	Course Handout explanation	1	Talk	NOT APPLICABLE
5	Clarification of doubts	1	PPT	NOT APPLICABLE
10	What is artificial Intelligence, Foundations of AI, Applications of AI	1	PPT	NOT APPLICABLE
5	What is artificial Intelligence, Foundations of AI, Applications of AI	1	PPT	NOT APPLICABLE
10	Quiz through LMS	1	PPT	NOT APPLICABLE

Session Outcome: 1 Student will understand Intelligent Agents & Environments AI.

Session Outcome: 2 Student will learn the real world applications.

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Recap/popup question	2	Talk	NOT APPLICABLE
10	Intelligent Agents: Agents & Environments, Good behaviour	2	PPT	NOT APPLICABLE
5	Intelligent Agents: Agents & Environments, Good behaviour	2	PPT	NOT APPLICABLE
5	Clarification of doubts	2	Talk	NOT APPLICABLE
10	Nature of Environments, Different types of environments	2	PPT	NOT APPLICABLE
5	Nature of Environments, Different types of environments	2	PPT	NOT APPLICABLE
10	Quiz through LMS	2	Talk	NOT APPLICABLE

SESSION NUMBER: 3

Session Outcome: 1 Students will learn about problem solving agents.

Session Outcome: 2 Students will learn precise definitions of various types of problems and their solutions.

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Recap/popup question	1	Talk	NOT APPLICABLE
10	Solving problems by Searching, Toy Problems	2	PPT	NOT APPLICABLE
5	Solving problems by Searching, Toy Problems	2	PPT	NOT APPLICABLE
5	Clarification of doubts	2	Talk	NOT APPLICABLE
10	Real world problems, infrastructure for searching algorithms	2	PPT	NOT APPLICABLE
5	Real world problems, infrastructure for searching algorithms	2	PPT	NOT APPLICABLE
5	Discussion/Conclusion	1	Talk	NOT APPLICABLE

SESSION NUMBER: 4

Session Outcome: 1 Student will learn several general-purpose search algorithms that can be used to solve problems.

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Recap/Popup	1	Talk	NOT APPLICABLE
10	UNINFOMED SEARCH STRATEGIES: BFS, DFS, DLS, IDDFS	2	PPT	NOT APPLICABLE
5	UNINFOMED SEARCH STRATEGIES: BFS, DFS, DLS, IDDFS	2	PPT	NOT APPLICABLE
5	CREATING A BREAKOUT ROOM	2	Talk	NOT APPLICABLE
20	Problems as Assignment/Quiz (ALM)	2	PPT	NOT APPLICABLE
5	Conclusion	2	Talk	NOT APPLICABLE

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SESSION NUMBER: 5

Session Outcome: 1 Student will learn several general-purpose search algorithms that can be used to solve problems.

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Recap/Popup	1	Talk	NOT APPLICABLE
10	Uninformed Search Strategies: Uniform cost search, Bidirectional Search, Informed Search Strategies: GBFS	2	PPT	NOT APPLICABLE
5	Uninformed Search Strategies: Uniform cost search, Bidirectional Search, Informed Search Strategies: GBFS	2	PPT	NOT APPLICABLE
5	CREATING A BREAKOUT ROOM	2	Talk	NOT APPLICABLE
20	Problems on UC/BS/GBFS searches as Assignment/Quiz (ALM)	2	PPT	NOT APPLICABLE
5	Conclusion	1	Talk	NOT APPLICABLE

SESSION NUMBER: 6

Session Outcome: 1 Student will learn the general-purpose informed (heuristic) search algorithm that can be used to solve problems

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Recap/Popup	1	Talk	NOT APPLICABLE
10	Informed Search Strategies: A* Search	2	PPT	NOT APPLICABLE
5	Informed Search Strategies: A* Search	2	PPT	NOT APPLICABLE
5	CREATING A BREAKOUT ROOM	2	Talk	NOT APPLICABLE
20	Problems on A* Search as Assignment/Quiz (ALM)	2	PPT	NOT APPLICABLE
5	Conclusion	1	Talk	NOT APPLICABLE

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SESSION NUMBER: 7

Session Outcome: 1 Students will learn about Local Search Algorithms

Session Outcome: 2 Students will learn about state space search based problems

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Recap/Popup	1	Talk	NOT APPLICABLE
10	Local Search Algorithms: hill climbing search, simulated annealing, local beam search	2	PPT	NOT APPLICABLE
5	Local Search Algorithms: hill climbing search, simulated annealing, local beam search	2	PPT	NOT APPLICABLE
5	CREATING A BREAKOUT ROOM	2	Talk	NOT APPLICABLE
20	Problems on Local Search algorithms as Assignment/Quiz (ALM)	2	PPT	NOT APPLICABLE
5	Conclusion	1	Talk	NOT APPLICABLE

SESSION NUMBER: 8

Session Outcome: 1 Students will learn applicability of AI in game playing

Session Outcome: 2 Students will learn Optimal decisions in games

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Recap/Popup	1	Talk	NOT APPLICABLE
10	Adversarial Search: Game playing	2	PPT	NOT APPLICABLE
5	Adversarial Search: Game playing	2	PPT	NOT APPLICABLE
20	Problems on Game playing as Assignment/Quiz (ALM)	2	PPT	NOT APPLICABLE
5	Conclusion	1	Talk	NOT APPLICABLE

Session Outcome: 1 Students will learn alpha beta pruning

Session Outcome: 2 Students will learn the importance of pruning

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Recap/Popup	1	Talk	NOT APPLICABLE
10	Adversarial Search: Alpha-Beta pruning	2	PPT	NOT APPLICABLE
5	Adversarial Search: Alpha-Beta pruning	2	PPT	NOT APPLICABLE
5	CREATING A BREAKOUT ROOM	2	PPT	NOT APPLICABLE
20	Problems on Alpha-Beta pruning as Assignment/Quiz (ALM)	2	PPT	NOT APPLICABLE
5	Conclusion	1	Talk	NOT APPLICABLE

SESSION NUMBER: 10

Session Outcome: 1 Students will learn about Genetic Algorithms

Session Outcome: 2 Students will learn about Online search agents

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Recap/Popup	1	Talk	NOT APPLICABLE
10	Genetic Algorithms	2	PPT	NOT APPLICABLE
5	Genetic Algorithms	2	PPT	NOT APPLICABLE
5	Clarification of doubts	2	Talk	NOT APPLICABLE
10	Online search agents	2	PPT	NOT APPLICABLE
5	Online search agents	2	PPT	NOT APPLICABLE

10 Quiz through LMS	2 PPT	NOT APPLICABLE
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Session Outcome: 1 Students will learn about Constraint Satisfaction Problems.

Session Outcome: 2 Students will learn about

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Recap/Popup	1	Talk	NOT APPLICABLE
10	Constraint Satisfaction: Map colouring	2	PPT	NOT APPLICABLE
5	Constraint Satisfaction: Map colouring	2	PPT	NOT APPLICABLE
5	CREATING A BREAKOUT ROOM	2	PPT	NOT APPLICABLE
20	Problems on Genetic Algorithm and online search agents as Assignment/Quiz (ALM)	2	PPT	NOT APPLICABLE
5	Conclusion	1	Talk	NOT APPLICABLE

SESSION NUMBER: 12

Session Outcome: 1 Students will learn backtracking and local search in Map Coloring

Session Outcome: 2 Students will learn to solve the CSP related problems.

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Recap/Popup	1	Talk	NOT APPLICABLE
10	Back tracking for CSPs, Crypt arithmetic Problem	2	PPT	NOT APPLICABLE
5	Back tracking for CSPs, Crypt arithmetic Problem	2	PPT	NOT APPLICABLE
5	CREATING A BREAKOUT ROOM	2	PPT	NOT APPLICABLE
20	Problems on Crypt arithmetic as Assignment/Quiz (ALM)	2	PPT	NOT APPLICABLE

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SESSION NUMBER: 13

Session Outcome: 1 Students will learn about knowledge based agents

Session Outcome: 2 Students will learn about axioms and facts present in a statements

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Recap/Popup	1	Talk	NOT APPLICABLE
10	Knowledge and Reasoning: Knowledge based agents, Logic in general	2	PPT	NOT APPLICABLE
5	Knowledge and Reasoning: Knowledge based agents, Logic in general	2	PPT	NOT APPLICABLE
5	Clarification of doubts	2	Talk	NOT APPLICABLE
10	Propositional Logic, horn clauses, Equivalence, validity, satisfiability	2	PPT	NOT APPLICABLE
5	Propositional Logic, horn clauses, Equivalence, validity, satisfiability	2	PPT	NOT APPLICABLE
10	Quiz through LMS	2	PPT	NOT APPLICABLE

SESSION NUMBER: 14

Session Outcome: 1 Students will learn difference between propositional logic and first order logic

Session Outcome: 2 Students will learn how to represent facts in first order logic

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Recap/Popup	1	Talk	NOT APPLICABLE
10	First order logic: Use of predicate logic as a way representing knowledge	2	PPT	NOT APPLICABLE
5	First order logic: Use of predicate logic as a way representing knowledge	2	PPT	NOT APPLICABLE
5	CREATING A BREAKOUT ROOM	2	PPT	NOT APPLICABLE
20	Problems predicate logic as Assignment/Quiz (ALM)	2	PPT	NOT

			APPLICABLE
5	Conclusion	1	NOT APPLICABLE

Session Outcome: 1 Students will learn about matching variables (unification) in process of giving inference

Session Outcome: 2 Students will learn about unification algorithm

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Recap/Popup	1	Talk	NOT APPLICABLE
10	Unification Algorithm and examples	2	PPT	NOT APPLICABLE
5	Unification Algorithm and examples	2	PPT	NOT APPLICABLE
5	CREATING A BREAKOUT ROOM	2	PPT	NOT APPLICABLE
20	Problems on matching process as Assignment/Quiz (ALM)	2	PPT	NOT APPLICABLE
5	Conclusion	1	Talk	NOT APPLICABLE

SESSION NUMBER: 16

Session Outcome: 1 Students will learn about resolution algorithm

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Recap/Popup	1	Talk	NOT APPLICABLE
10	Conversion to clause form & Resolution in Proposition logic	2	PPT	NOT APPLICABLE
5	Conversion to clause form & Resolution in Proposition logic	2	PPT	NOT APPLICABLE
5	CREATING A BREAKOUT ROOM	2	PPT	NOT APPLICABLE
20	Problems on converting to clause form as	2	PPT	NOT

	Assignment/Quiz (ALM)		APPLICABLE
5	Conclusion	1	NOT APPLICABLE

Session Outcome: 1 Students will learn theorem proving using resolution

Session Outcome: 2 Students will learn various properties of resolution

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Recap/Popup	1	Talk	NOT APPLICABLE
10	Resolution in predicate logic: Resolution examples, Resolution algorithm, Question and answering	2	PPT	NOT APPLICABLE
5	Resolution in predicate logic: Resolution examples, Resolution algorithm, Question and answering	2	PPT	NOT APPLICABLE
5	CREATING A BREAKOUT ROOM	2	PPT	NOT APPLICABLE
20	Problems forward and backward chaining as Assignment/Quiz (ALM)	2	PPT	NOT APPLICABLE
5	Conclusion	1	Talk	NOT APPLICABLE

SESSION NUMBER: 18

Session Outcome: 1 Students will learn about forward and backward chaining for drawing inferences

Session Outcome: 2 Students will learn difference between forward and backward chaining

Session Outcome: 3 Students will learn pros and cons of different types of chaining

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Recap/Popup	1	Talk	NOT APPLICABLE
10	Forward and Backward Chaining	2	PPT	NOT APPLICABLE
5	Forward and Backward Chaining	2	PPT	NOT APPLICABLE
5	CREATING A BREAKOUT ROOM	2	PPT	NOT

				APPLICABLE
20	Problems on Forward and Backward Chaining as Assignment/Quiz (ALM)	2	PPT	NOT APPLICABLE
5	Conclusion	1		NOT APPLICABLE

Session Outcome: 1 Student will Learn Quantifying uncertainty

Session Outcome: 2 Student will learn uncertainty and relational decisions

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Recap/Popup	1	Talk	NOT APPLICABLE
10	Quantifying uncertainty, Basic Probability Notation	2	PPT	NOT APPLICABLE
5	Quantifying uncertainty, Basic Probability Notation	2	PPT	NOT APPLICABLE
5	CREATING A BREAKOUT ROOM	2	PPT	NOT APPLICABLE
20	Problems on basic probability notations as Assignment/Quiz (ALM)	2	PPT	NOT APPLICABLE
5	Conclusion	1	Talk	NOT APPLICABLE

SESSION NUMBER: 20

Session Outcome: 1 1. Students will learn Baye's theorem and applicability of Baye's theorem

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Recap/Popup	1	Talk	NOT APPLICABLE
10	Baye's Theorem, Navie Baye's classifer	2	PPT	NOT APPLICABLE
5	Baye's Theorem, Navie Baye's classifer	2	PPT	NOT APPLICABLE
5	CREATING A BREAKOUT ROOM	2	PPT	NOT

				APPLICABLE
20	Problems on basic Bayes' representation as Assignment/Quiz (ALM)	2	PPT	NOT APPLICABLE
5	Conclusion	1	Talk	NOT APPLICABLE

Session Outcome: 1 Students will learn how to represent knowledge in uncertain domain

Session Outcome: 2 Student will learn about Bayesian Network representation of knowledge

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Recap/Popup	1	Talk	NOT APPLICABLE
10	Representing knowledge in an uncertain domain: Bayesian Network	2	PPT	NOT APPLICABLE
5	Representing knowledge in an uncertain domain: Bayesian Network	2	PPT	NOT APPLICABLE
5	Clarifying doubts	2	Talk	NOT APPLICABLE
10	Semantics of Bayesian Network	2	PPT	NOT APPLICABLE
5	Semantics of Bayesian Network	2	PPT	NOT APPLICABLE
5	Quiz through LMS	2	PPT	NOT APPLICABLE

SESSION NUMBER: 22

Session Outcome: 1 Students will learn Probabilistic reasoning over time

Session Outcome: 2 Students will learn basics of hidden markov model & simplified matrix algorithms

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Recap/Popup	1	Talk	NOT APPLICABLE
10	Probabilistic Reasoning over time: Temporal Probabilistic agent, Inference tasks: Filtering, Prediction, Smoothing, most likely explanation	2	PPT	NOT APPLICABLE

5	Probabilistic Reasoning over time: Temporal Probabilistic agent, Inference tasks: Filtering, Prediction, Smoothing, most likely explanation	2	PPT	NOT APPLICABLE
5	CREATING A BREAKOUT ROOM	2	PPT	NOT APPLICABLE
20	Problems on inference tasks as Assignment/Quiz (ALM)	2	PPT	NOT APPLICABLE
5	Conclusion	1	Talk	NOT APPLICABLE

Session Outcome: 1 Students will learn about Simple Markov Model and Hidden Markov Model

Session Outcome: 2 Students will learn applicability of HMM

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Recap/Popup	1	PPT	NOT APPLICABLE
10	Introduction to Hidden Markov Models	2	PPT	NOT APPLICABLE
5	Introduction to Hidden Markov Models	2	PPT	NOT APPLICABLE
5	Clarifying doubts	2	PPT	NOT APPLICABLE
10	Examples, Semantics and Issues of HMMs	2	PPT	NOT APPLICABLE
5	Examples, Semantics and Issues of HMMs	2	PPT	NOT APPLICABLE
5	Quiz through LMS	2	PPT	NOT APPLICABLE

SESSION NUMBER: 24

Session Outcome: 1 Students will learn about introduction of Rule based system and Fuzzy logic

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Recap/Popup	1	Talk	NOT APPLICABLE

10	Introduction to Rule based system	2	PPT	NOT
				APPLICABLE
				NOT
5	Introduction to Rule based system	2	PPT	APPLICABLE
				NOT
5	Clarifying doubts	2	Talk	APPLICABLE
1.0			DDT	NOT
10	Fuzzy logic	2	PPT	APPLICABLE
_	F1		DDT	NOT
5	Fuzzy logic	2	PPT	APPLICABLE
				NOT
_	Ovin through LMC		DDT	NOT
5	Quiz through LMS	2	PPT	APPLICABLE

Tutorial Course DELIVERY Plan: NO Delivery Plan Exists

 $Tutorial\ Session\ wise\ Teaching-Learning\ Plan$

No Session Plans Exists

Practical Course DELIVERY Plan:

Tutorial Session no	Topics	CO-Mapping
1	Experimentation on Chatbot program	CO5
2	Experimentation on Sorting water jug problem	CO5
3	Experimentation on uninformed search problems	CO5
4	Experimentation on informed search problems	CO5
5	Experimentation on Mini-max problems problems	CO5
6	Experimentation on Map colouring Problem	CO5
7	Experimentation on predicate logic representation problems	CO5
8	Experimentation on forward-backward chaining problem	CO5
9	Experimentation on Unification problem	CO5
10	Experimentation on probability problems	CO5
11	Experimentation on problem based on Baye's conditional probability	CO5

Tutorial Session no	Topics	CO-Mapping
12	Experimentation on Navie Baye's problem	CO5

Practical Session wise Teaching – Learning Plan

SESSION NUMBER: 1

Session Outcome: 1 Students will be able to solve Chatbot based programs

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Attendance/Poll/Pop Question	4	Talk	NOT APPLICABLE
10	Experiment Explanation on Chatbot program	4	PPT	NOT APPLICABLE
5	Split to sections	1	Talk	NOT APPLICABLE
40	Experimentation on Chatbot program	4	Talk	NOT APPLICABLE
10	Assessment and Interaction	4	Talk	NOT APPLICABLE
20	Documenting Results and result submission	4	Talk	NOT APPLICABLE
10	Submitting as Assignment in LMS	1	Talk	NOT APPLICABLE

SESSION NUMBER: 2

Session Outcome: 1 Students will be able to solve problems using production rules

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Attendance/Poll/Pop Question	4	Talk	NOT APPLICABLE
10	Experiment Explanation on water jug problem	4	PPT	NOT APPLICABLE
5	Split to sections	1	Talk	NOT APPLICABLE

40	Experimentation on Sorting water jug problem	4	Talk	NOT APPLICABLE
10	Assessment and Interaction	4	Talk	NOT APPLICABLE
20	Documenting Results and result submission	4	Talk	NOT APPLICABLE
10	Submitting as Assignment in LMS	1	Talk	NOT APPLICABLE

Session Outcome: 1 Students will be able to solve problems using uninformed search techniques

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Attendance/Poll/Pop Question	4	Talk	NOT APPLICABLE
10	Experiment Explanation on uninformed search technique	4	PPT	NOT APPLICABLE
5	Split to sections	1	Talk	NOT APPLICABLE
40	Experimentation on uninformed search problems	4	Talk	NOT APPLICABLE
10	Assessment and Interaction	4	Talk	NOT APPLICABLE
20	Documenting Results and result submission	4	Talk	NOT APPLICABLE
10	Submitting as Assignment in LMS	1	Talk	NOT APPLICABLE

SESSION NUMBER: 4

Session Outcome: 1 Students will be able to solve problems using informed search techniques

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Attendance/Poll/Pop Question	4	Talk	NOT APPLICABLE
10	Experiment Explanation on informed search techniques	4	PPT	NOT APPLICABLE

5	Split to sections	1	Talk	NOT APPLICABLE
40	Experimentation on informed search problems	4	Talk	NOT APPLICABLE
10	Assessment and Interaction	4	Talk	NOT APPLICABLE
20	Documenting Results and result submission	4	Talk	NOT APPLICABLE
10	Submitting as Assignment in LMS	1	Talk	NOT APPLICABLE

Session Outcome: 1 Students will be able to solve problems using Adversarial Search Technique.

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Attendance/Poll/Pop Question	4	Talk	NOT APPLICABLE
10	Experiment Explanation on Mini-max problems	4	PPT	NOT APPLICABLE
5	Split to sections	4	Talk	NOT APPLICABLE
40	Experimentation on Mini-max problems problems	4	Talk	NOT APPLICABLE
10	Assessment and Interaction	4	Talk	NOT APPLICABLE
20	Documenting Results and result submission	4	Talk	NOT APPLICABLE
10	Submitting as Assignment in LMS	1	Talk	NOT APPLICABLE

SESSION NUMBER: 6

Session Outcome: 1 Students will be able to solve problems using Constraint Satisfaction

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Attendance/Poll/Pop Question	4	Talk	NOT

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				APPLICABLE			
10	Experiment Explanation on Constraint Satisfaction problems	4	PPT	NOT APPLICABLE 			
5	Split to sections	1	Talk	NOT APPLICABLE 			
40	Experimentation on Map colouring Problem	4	Talk	NOT APPLICABLE 			
10	Assessment and Interaction	4	Talk	NOT APPLICABLE 			
20	Documenting Results and result submission	4	Talk	NOT APPLICABLE 			
10	Submitting as Assignment in LMS	1	Talk	NOT APPLICABLE 			

Session Outcome: 1 Students will be able to represent knolwedge

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Attendance/Poll/Pop Question	4	Talk	NOT APPLICABLE
10	Experiment Explanation on knowledge representation	4	PPT	NOT APPLICABLE
5	Split to sections	1	Talk	NOT APPLICABLE
40	Experimentation on predicate logic representation problems	4	Talk	NOT APPLICABLE
10	Assessment and Interaction	4	Talk	NOT APPLICABLE
20	Documenting Results and result submission	4	Talk	NOT APPLICABLE
10	Submitting as Assignment in LMS	1	Talk	NOT APPLICABLE

SESSION NUMBER: 8

Session Outcome: 1 Students will be able to solve problems using forward Inference techniques

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Attendance/Poll/Pop Question	4	Talk	NOT APPLICABLE
10	Experiment Explanation on Inference techniques	4	PPT	NOT APPLICABLE
5	Split to sections	4	Talk	NOT APPLICABLE
40	Experimentation on forward-backward chaining problem	4	Talk	NOT APPLICABLE
10	Assessment and Interaction	4	Talk	NOT APPLICABLE
20	Documenting Results and result submission	4	Talk	NOT APPLICABLE
10	Submitting as Assignment in LMS	1	Talk	NOT APPLICABLE

Session Outcome: 1 Students will be able to solve problems using Matching procedure

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Attendance/Poll/Pop Question	4	Talk	NOT APPLICABLE
10	Experiment Explanation on Matching procedure	4	PPT	NOT APPLICABLE
5	Split to sections	1	Talk	NOT APPLICABLE
40	Experimentation on Unification problem	4	Talk	NOT APPLICABLE
10	Assessment and Interaction	4	Talk	NOT APPLICABLE
20	Documenting Results and result submission	4	Talk	NOT APPLICABLE
10	Submitting as Assignment in LMS	1	PPT	NOT APPLICABLE

Session Outcome: 1 Students will be able to solve problems using basic probability notations

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Attendance/Poll/Pop Question	4	Talk	NOT APPLICABLE
10	Experiment Explanation probability notations	4	PPT	NOT APPLICABLE
5	Split to sections	1	Talk	NOT APPLICABLE
40	Experimentation on probability problems	4	Talk	NOT APPLICABLE
10	Assessment and Interaction	4	Talk	NOT APPLICABLE
20	Documenting Results and result submission	4	Talk	NOT APPLICABLE
10	Submitting as Assignment in LMS	1	Talk	NOT APPLICABLE

SESSION NUMBER: 11

Session Outcome: 1 Students will be able to solve problems on conditional probability problems

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Attendance/Poll/Pop Question	4	Talk	NOT APPLICABLE
10	Experiment Explanation on conditional probability problem	4	PPT	NOT APPLICABLE
5	Split to sections	1	Talk	NOT APPLICABLE
40	Experimentation on problem based on Baye's conditional probability	4	Talk	NOT APPLICABLE
10	Assessment and Interaction	4	Talk	NOT APPLICABLE
20	Documenting Results and result submission	4	Talk	NOT APPLICABLE

10	Submitting as Assignment in LMS	1	Talk	NOT APPLICABLE

Session Outcome: 1 Students will be able to solve problems on representation of knowledge in uncertain domain

Time(min)	Торіс	BTL	Teaching- Learning Methods	Active Learning Methods
5	Attendance/Poll/Pop Question	4	Talk	NOT APPLICABLE
10	Experiment Explanation on knowledge in uncertain domain	4	PPT	NOT APPLICABLE
5	Split to sections	1	Talk	NOT APPLICABLE
40	Experimentation on Navie Baye's problem	4	Talk	NOT APPLICABLE
10	Assessment and Interaction	4	Talk	NOT APPLICABLE
20	Documenting Results and result submission	4	Talk	NOT APPLICABLE
10	Submitting as Assignment in LMS	1	Talk	NOT APPLICABLE

Skilling Course DELIVERY Plan: NO Delivery Plan Exists

Skilling Session wise Teaching – Learning Plan

No Session Plans Exists

WEEKLY HOMEWORK ASSIGNMENTS/ PROBLEM SETS/OPEN ENDEDED PROBLEM-SOLVING EXERCISES etc:

Week	Assignment Type	Assignment No	Торіс	Details	co	
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COURSE TIME TABLE:

	Hour	1	2	3	4	5	6	7	8	9
Day	Component									
Mon	Theory	-	-					-	-	-

	Tutorial	- -	- -					- -	- -	- -
	Lab	- -	- -					-	-	- -
	Skilling	- -	- -					- -	- -	- -
	Theory	- -	- -					-	-	-
Tue	Tutorial	- -	- -					-	-	-
Tue	Lab	-	-					-	-	-
	Skilling	-	-					-	-	- -
	Theory	- - -	- - -			V-S1,V-S2,V-S3,V-S4,V-S5,V-S6,V-S7,V-S8,V-S9,V-S10,V-S11,V-S12	V-S1,V-S2,V-S3,V-S4,V-S5,V-S6,V-S7,V-S8,V-S9,V-S10,V-S11,V-S12	- -	-	- - -
	Tutorial	- - -	- - -					- - -	- - -	- - -
Wed	Lab			V-S1,V-S1,V-S2,V-S2,V-S3,V-S3,V-S3,V-S5,V-S5,V-S5,V-S6,V-S6,V-S7,V-S8,V-S8,V-S9,V-S10,V-S11,V-S12,V-S12	V-S1,V-S1,V-S2,V-S2,V-S3,V-S3,V-S3,V-S5,V-S5,V-S5,V-S6,V-S6,V-S7,V-S8,V-S8,V-S9,V-S10,V-S11,V-S12,V-S12				-	-
	Skilling	- - -	- - -					- - -	- - -	- - -
Thu	Theory	- - -	- - -		V-S13,V-S14,V-S15,V-S16,V-S17,V-S18,V-S19,V-S20,V-S21,V-S22,V-S23,V-S24,V-S25				- - -	- - -
	Tutorial	- - -	- - -					- - -	- - -	- - -
	Lab	-	-			\$14,V-\$14,V-\$15,V- \$15,V-\$16,V-\$16,V- \$17,V-\$17,V-\$18,V- \$18,V-\$19,V-\$19,V- \$20,V-\$20,V-\$21,V-	V-S13,V-S13,V- S14,V-S14,V-S15,V- S15,V-S16,V-S16,V- S17,V-S17,V-S18,V- S18,V-S19,V-S19,V- S20,V-S20,V-S21,V- S21,V-S22,V-S22,V-	-	-	-

12112020									
				 	S23,V-S23,V-S24,V- S24,V-S25,V-S25	S23,V-S23,V-S24,V- S24,V-S25,V-S25			
	Skilling	- - -	- - -	 			- - -	- - -	- - -
	Theory	-	-	 			-	- -	- -
Fri	Tutorial	-	- -	 			-	- -	- -
	Lab	-	- -	 			-	- -	- -
	Skilling	-	- -	 			-	- -	- -
	Theory	-	- -	 			-	- -	-
Sat	Tutorial	-	- -	 			-	- -	- -
Sat	Lab	-	- -	 			-	- -	- -
	Skilling	-	- -	 			-	- -	-
	Theory	-	- -	 			-	- -	- -
Sun	Tutorial	-	-	 			- -	- -	<u>-</u>
Suii	Lab	- -	- -	 			-	- -	<u>-</u>
	Skilling	- -	- -	 			-	-	- -

REMEDIAL CLASSES:

Supplement course handout, which may perhaps include special lectures and discussions that would be planned, and schedule notified according

SELF-LEARNING:

Assignments to promote self-learning, survey of contents from multiple sources.

	<u> </u>		1	
S.no	Topics	CO	ALM	References/MOOCS

DELIVERY DETAILS OF CONTENT BEYOND SYLLABUS:

Content beyond syllabus covered (if any) should be delivered to all students that would be planned, and schedule notified accordingly.

	<i>U</i> ,			
S.no	Advanced Topics, Additional Reading, Research papers and any	СО	ALM	References/MOOCS

EVALUATION PLAN:

Evaluation Type	Evaluation Component	Weightage/M	larks	Assessment Dates	Duration (Hours)	CO1	CO2	CO3	CO4	CO5
Competer	End Semester	Weightage	25		180	6.25	6.25	6.25	6.25	
	Exam	Max Marks	100		160	25	25	25	25	
Evaluation Total= 40	Lab End	Weightage	15		100					15
%	Semester Exam	Max Marks	50		180					50
In	Semester in	Weightage	15		120	7.5	7.5			
In Semester	Exam-I	Max Marks	50		120	25	25			
Summative	Semester in	Weightage	15	120			7.5	7.5		
Evaluation	Exam-II	Max Marks	50		120			25	25	
Total= 40 %	Lab In Semester	Weightage	10		120					10
/0	Exam	Max Marks	50		120					50
	ALM	Weightage	8		20	2	2	2	2	
In	ALM	Max Marks	80		20	20	20	20	20	
Semester Formative	Home	Weightage	7		120					7
Evaluation	Assignment and Textbook	Max Marks	50		120					50
Total= 20 %	Continuous Evaluation Lab	Weightage	5		120					5
	Evaluation - Lab Exercise	Max Marks	120		120					120

ATTENDANCE POLICY:

Every student is expected to be responsible for regularity of his/her attendance in class rooms and laboratories, to appear in scheduled tests and examinations and fulfill all other tasks assigned to him/her in every course

In every course, student has to maintain a minimum of 85% attendance to be eligible for appearing in Semester end examination of the course, for cases of medical issues and other unavoidable circumstances the students will be condoned if their attendance is between 75% to 85% in every course, subjected to submission of medical certificates, medical case file and other needful documental proof to the concerned departments

DETENTION POLICY:

In any course, a student has to maintain a minimum of 85% attendance and In-Semester Examinations to be eligible for appearing to the Semester End Examination, failing to fulfill these conditions will deem such student to have been detained in that course.

PLAGIARISM POLICY:

Supplement course handout, which may perhaps include special lectures and discussions

COURSE TEAM MEMBERS, CHAMBER CONSULTATION HOURS AND CHAMBER VENUE DETAILS:

Supplement course handout, which may perhaps include special lectures and discussions

Name of Faculty	Component	Sections of Faculty	Chamber Consultation Day (s)	Chamber Consultation Timings for each day	Chamber Consultation Room No:	Signature of Course faculty:
VUDATHA	L	23-	-	-	-	-

			_		_	
CHANDRA PRAKASH		MA,1- MA				
VUDATHA CHANDRA PRAKASH	P	23-A,1- A	-	-	-	-
SREEDEVI MARRIBOYINA	P	23-B,1- B	-	-	-	-
SRINIVASA RAO SABBINENI	P	16-B,6- B	-	-	-	-
sekhar babu	L	16-MA	-	-	-	-
sekhar babu	P	16-A,8- B	-	-	-	-
RAMA NARASINGARAO MANDA	P	13-B,2- B	-	-	-	-
Kallipalli Raju	P	12- B,17-B	-	-	-	-
Manna Sheela Rani Chetty	P	3-B,22- B	-	-	-	-
RAJARAJESWARI POTHURAJU	L	2-MA	-	-	-	-
RAJARAJESWARI POTHURAJU	P	2-A,14- B	-	-	-	-
ANJALI MATHUR	L	17- MA,4- MA	-	-	-	-
ANJALI MATHUR	P	4-A,17- A	-	-	-	-
PRAVEENA MANDAPATI	L	13-MA	-	-	-	-
PRAVEENA MANDAPATI	P	7-B,13- A	-	-	-	-
Raju Anitha	L	18- MA,5- MA	-	-	-	-
Raju Anitha	P	5-A,18- A	-	-	-	-
SWARNA KUCHIBHOTLA	L	6- MA,19- MA	-	-	-	-
SWARNA KUCHIBHOTLA	P	19-A,6- A	-	-	-	-
RAJESH PASUPULETI	P	9-B,18- B	-	-	-	-
MOHAMMED MOULANA	L	7- MA,20- MA	-	-	-	-
MOHAMMED MOULANA	P	7-A,20- A	-	-	-	-
MOHAMMED ISMAIL	P	4-B,24- B	-	-	-	-

21/2020						
Chayan Paul	P	11- B,19-B	-	-	-	_
SHASHI MEHROTRA	L	8- MA,21- MA	-	-	-	-
SHASHI MEHROTRA	P	8-A,21- A	-	-	-	-
BHANU PRAKASH KOLLA	P	15-B,5- B	-	-	-	-
VAMSIDHAR ENIREDDY	P	20- B,10-B	-	-	-	-
TATAVARTHY SRI	L	14- MA,3- MA	-	-	-	-
TATAVARTHY SRI	P	3-A,14- A	-	-	-	-
RUDRA NAYAK	P	25-B	-	-	-	-
Choudhary Prakash	L	22- MA,9- MA	-	-	-	-
Choudhary Prakash	P	9-A,22- A	-	-	-	-
vithya Ganesan	L	15- MA,10- MA	-	-	-	-
vithya Ganesan	P	15- A,10-A	-	-	-	-
Ram Prasad Reddy Sadi	L	24- MA,11- MA	-	-	-	-
Ram Prasad Reddy Sadi	P	11- A,24-A	-	-	-	-
PRANEETH CHERAKU	L	25- MA,12- MA	-	-	-	-
PRANEETH CHERAKU	P	12- A,25-A	-	-	-	-
Lakshmi Lalitha Vuyyuru	P	21-B	-			-

GENERAL INSTRUCTIONS

Students should come prepared for classes and carry the text book(s) or material(s) as prescribed by the Course Faculty to the class.

NOTICES

Most of the notices are available on the LMS platform.

All notices will be communicated through the institution email.

All notices concerning the course will be displayed on the respective Notice Boards.

Signature of COURSE COORDINATOR

(TATAVARTHY SANTHI SRI)

Signature of Department Prof. Incharge Academics & Vetting Team Member

Department Of CSE

HEAD OF DEPARTMENT:

Approval from: DEAN-ACADEMICS

(Sign with Office Seal) [object HTMLDivElement]