



**PANIPAT INSTITUTE OF ENGINEERING AND TECHNOLOGY,
PANIPAT
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

COURSE PLAN

Faculty Name: - EKTA GUPTA
Branch/Semester: -CSE - 7th Sem (B)

Subject Name: - Expert Systems
Subject Code:-CSE-425N

| Sr No. | Lecture No. | Topics To Be Covered | Planned On | Covered On | Remarks |
|---------------|--------------------|---|-------------------|-------------------|----------------|
| 1 | L 1 | Unit 1: Introduction | 17/07/2019 | | |
| 2 | L 2 | Introduction to AI programming languages | 18/07/2019 | | |
| 3 | L 3 | Blind search Strategies Concept | 19/07/2019 | | |
| 4 | L 4 | Breadth first Search | 22/07/2019 | | |
| 5 | L 5 | Depth first Search | 24/07/2019 | | |
| 6 | L 6 | Heuristic Search techniques:Hill Climbing | 25/07/2019 | | |
| 7 | L 7 | Best First Search | 26/07/2019 | | |
| 8 | L 8 | A* Algorithms | 29/07/2019 | | |
| 9 | L 9 | AO* algorithm | 31/07/2019 | | |
| 10 | L 10 | Game tress: Min-max algorithms | 01/08/2019 | | |
| 11 | L 11 | Peas Representation, Categories of AI, (Content Beyond Syllabus) | 02/08/2019 | | |
| 12 | L 12 | Turing Test Approach (Content Beyond Syllabus) | 05/08/2019 | | |
| 13 | L 13 | Game playing – Alpha beta pruning | 07/08/2019 | | |
| 14 | L 14 | Knowledge representation issues | 08/08/2019 | | |
| 15 | L 15 | Predicate Logic | 09/08/2019 | | |
| 16 | L 16 | Propositional Logic | 12/08/2019 | | |
| 17 | L 17 | Logic programming Semantic nets- frames | 14/08/2019 | | |
| 18 | L 18 | Logic programming Semantic nets- frames (Contd.) | 16/08/2019 | | |
| 19 | L19 | Logic programming Inheritance | 19/08/2019 | | |
| 20 | L 20 | Constraint Propagation | 21/08/2019 | | |
| 21 | L 21 | Representing Knowledge using rules | 22/08/2019 | | |

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|----|------|---|------------|--|--|
| 22 | L 22 | Rules based deduction systems | 23/08/2019 | | |
| 23 | L 23 | Unit 2:-Introduction to Expert Systems | 26/08/2019 | | |
| 24 | L 24 | Architecture of Expert Systems | 28/08/2019 | | |
| 25 | L 25 | Representation and organization of knowledge | 29/08/2019 | | |
| 26 | L 26 | Representation and organization of knowledge(Contd.) | 30/08/2019 | | |
| 27 | L 27 | Basics characteristics | 02/09/2019 | | |
| 28 | L 28 | Types of problems handled by expert systems | 04/09/2019 | | |
| 29 | L 29 | Expert System Tools | 05/09/2019 | | |
| 30 | L 30 | Techniques of knowledge representations in expert systems | 06/09/2019 | | |
| 31 | L 31 | Techniques of knowledge representations in expert systems(Contd.) | 09/09/2019 | | |
| 32 | L 32 | Knowledge Engineering | 11/09/2019 | | |
| 33 | L 33 | System-building aids | 12/09/2019 | | |
| 34 | L 34 | Support facilities | 13/09/2019 | | |
| 35 | L 35 | Stages in the development of expert systems | 16/09/2019 | | |
| 36 | L 36 | Stages in the development of expert systems (Contd.) | 18/09/2019 | | |
| 37 | L 37 | Unit 3:-Expert System Development | 19/09/2019 | | |
| 38 | L 38 | Expert System Development(Contd.) | 26/09/2019 | | |
| 39 | L 39 | Selection of Tool | 27/09/2019 | | |
| 40 | L 40 | Selection of Tool(Contd.) | 30/09/2019 | | |
| 41 | L 41 | Acquiring Knowledge | 03/10/2019 | | |
| 42 | L 42 | Acquiring Knowledge(Contd.) | 04/10/2019 | | |
| 43 | L 43 | Building Process | 07/10/2019 | | |
| 44 | L 44 | Building Process(Contd.) | 9/10/2019 | | |
| 45 | L 45 | Unit 4:-Difficulties with Expert Systems | 10/10/2019 | | |
| 46 | L 46 | Difficulties with Expert Systems(Contd.) | 11/10/2019 | | |
| 47 | L 47 | Common pitfalls in planning | 14/10/2019 | | |
| 48 | L 48 | Common pitfalls in planning(Contd.) | 17/10/2019 | | |
| 49 | L 49 | Dealing with domain expert | 18/10/2019 | | |
| 50 | L 50 | Dealing with domain expert(Contd.) | 24/10/2019 | | |
| 51 | L 51 | Difficulties during development | 25/10/2019 | | |
| 52 | L 52 | Difficulties during development(Contd.) | 28/10/2019 | | |

Ekta
(Subject Incharge)