**PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Even Semester**

**Session (2018-19)**

**Class: M.Sc(IT) Name of the Teacher: Ms.Monika Gogna**

**Subject: Artificial Intelligence Period : 3rd(3-6)**

**Paper : MS-67 Room No : 101 & 201**

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| **S. No** | **Dates** | **Topics to be covered** |
| Week 1 | 14 /01/2019 – 19/01/2019 | Introduction and Applications, History of AI from Alan Turing and developments in AI, application areas; |
| Week 2 | 21/01/2019 –  25/01/2019 | Criteria for success; Problem Characteristics; Problem representation-State space representation, |
| Week 3 | 28/01/2019 –  2/02/2019 | problem reduction representation, production system; Introduction to agents, intelligent software systems, Applications, |
| Week 4 | 4/02/2019 –  9/02/2019 | Intelligent architectures, components of intelligent agent based distributed systems. |
| Week 5 | 11/02/2019 –  16/02/2019 | Data driven and goal driven search; Uninformed search, Breadth -first Search and Depth-First Search methods; Heuristic Search Techniques - Hill Climbing, Best first Search, A\*, AO\*, Constraint satisfaction and means-ends analysis techniques |
| Week 6 | 18/02/2019 –  23/02/2019 | Definition and Applications, Characteristics of Expert systems, Architecture of a typical Expert System, Expert System Shells, Building an Expert System, Case studies of Expert Systems like MYCIN, Specific Application of AI. |
| Week 7 | 25/02/2019 –  02/03/2019 | Features of Prolog, Elementary Data Types, Compound objects in Prolog, Writing simple program in Prolog, Understanding Default flow control of the Prolog Program, Controlling Program Flow with cut and fail, |
| Mid Semester Exam | | |
| Week 8 | 11/03/2019 –  16/03/2019 | List Manipulation, String manipulation, Arithmetic Operators and evaluation of Arithmetic expressions, Input /Output statement. Some simple example problems: Tower of Hanoi, Sorted Tree Dictionary, Sorting, Searching Graphs, Searching Amaze |
| Week 9 | 18 /03/2019 –  22/03/2019 | Complexity of the problem, Syntactic processing: Grammars and Parsers, Augmented Transition Networks; Semantic Analysis: 18 Semantic Grammars, Case Grammars; |
| Week 10 | 25/03/2019 –  30/03/2019 | Discourse and Pragmatic processing:Using Focus in Understanding, Modeling Beliefs; Introduction to Perception |
| Week 11 | 1/04/2019 –  6/04/2019 | Vision using Low-Level and High-Level Image Features and Action: Navigation and Manipulation. |
| Week 12 | 8/04/2019 –  12/04/2019 | Information and Knowledge, Knowledge Acquisition and Manipulation, Issues in Knowledge Representation, Knowledge Representation Methods, Propositional Logic and First Order Predicate Logic, |
| Week 13 | 15/04/2019 –  20/04/2019 | Resolution: Definition, Conversion to ClauseForm, Resolution in Propositional and Predicate Logic, Unification and Resolution Principle; Horn's Clauses, Semantic Networks, Partitioned Semantic Nets, Frames, Scripts and Conceptual Dependencies. |
| Week 14 | 22/04/2019 –  27/04/2019 | Game Playing:Minimax Search Procedure, Adding Alpha-Beta Cutoffs. |
| Week 15 | 29 /04/2019 –  3/05/2019 | Revision |

**PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Even Semester**

**Session (2018-19)**

**Class: PGDCA Name of the Teacher: Ms.Monika Gogna**

**Subject: Web Technologies Period : 4th(1-2),5th(5-6)**

**Paper : 2102 Room No : 101**

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| **S. No** | **Dates** | **Topics to be covered** |
| Week 1 | 14 /01/2019 – 19/01/2019 | Brief history of HTML, Building blocks of HTML, lists, |
| Week 2 | 21/01/2019 –  25/01/2019 | links, images, image map, tables, frames, forms |
| Week 3 | 28/01/2019 –  2/02/2019 | Introduction to Style Sheets, Types of style Sheets-Inline, embedded and external style sheets. Introduction to Style Sheets, Types of style Sheets-Inline, embedded and external style sheets. |
| Week 4 | 4/02/2019 –  9/02/2019 | Features, tokens, data types, variables, operations, control constructs, strings, arrays, |
| Week 5 | 11/02/2019 –  16/02/2019 | functions, Document Object Model, event handling. Applications related to client side form validation. |
| Week 6 | 18/02/2019 –  23/02/2019 | Core language objects, The String Object, The Math Object, and The Date Object; |
| Week 7 | 25/02/2019 –  02/03/2019 | User Defined Objects: Creating a User Defined Object, Instances, Objects within Objects |
| Mid Semester Exam | | |
| Week 8 | 11/03/2019 –  16/03/2019 | Embedding PHP code in a Web Page, Basic Syntax, Defining variable and constant, PHP Data types, Operators and Expressions |
| Week 9 | 18 /03/2019 –  22/03/2019 | Control Structures: Making Decisions, Doing Repetitive task with looping, File inclusion statements. |
| Week 10 | 25/03/2019 –  30/03/2019 | Functions: Defining a function, Call by value and Call by reference, recursive function, Library functions |
| Week 11 | 1/04/2019 –  6/04/2019 | Strings: Creating and accessing String, Searching & Replacing String, Formatting String, String Related Library function. |
| Week 12 | 8/04/2019 –  12/04/2019 | Anatomy of an Array, Creating index based and Associative array, Accessing array Element, Looping with associative array using each() and foreach() |
| Week 13 | 15/04/2019 –  20/04/2019 | Some useful Library function: current(), next(), prev(), reset(), end(). Working with Forms: Super global variables |
| Week 14 | 22/04/2019 –  27/04/2019 | super global array, Importing and accessing user input, Combine HTML and PHP code. |
| Week 15 | 29 /04/2019 –  3/05/2019 | Opening, closing, Coping, renaming and deleting a file, working with directories, File Uploading & Downloading |