**Post Graduate Govt. College for Girls, Sector-42, Chandigarh**

**Teaching Plan (Even Semester) Session (2019-2020)**

**Class: M.sc 2nd Sem**   **Name of the Teacher: Monika Gogna**

**Subject: Artificial Intelligence Period: 6th**

**Paper: MS-67 Room No: Lab1**

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| **S. No** | **Dates** | **Topics to be Covered** |
| Week 1 | 09-01-2020 to 11-01-2020 | Introduction and Applications, History of AI from Alan Turing and developments in AI, application areas; |
| Week 2 | 13-01-2020 to 18-01-2020 | Criteria for success; Problem Characteristics; Problem representation-State space representation, problem reduction representation, |
| Week 3 | 20-01-2020 to 25-01-2020 | production system; Introduction to agents, intelligent software systems, Applications, |
| Week 4 | 27-01-2020 to 01-02-2020 | Intelligent architectures, components of intelligent agent based distributed systems. |
| Week 5 | 03-02-2020 to 08-02-2020 | Data driven and goal driven search; Uninformed searchBreadth -first Search and Depth-First Search methods; |
| Week 6 | 10-02-2020 to 15-02-2020 | Heuristic Search Techniques - Hill Climbing, Best first Search, A\*, AO\* |
| Week 7 | 17-02-2020 to 22-02-2020 | Constraint satisfaction and means-ends analysis techniques. Features of Prolog, Elementary Data Types, Compound objects in Prolog, Writing simple program in Prolog, |
| Week 8 | 24-02-2020 to 29-02-2020 | Understanding Default flow control of the Prolog Program, Controlling Program Flow with cut and fail, List Manipulation, String manipulation, Arithmetic Operators and evaluation of Arithmetic expressions, Input /Output statement. |
| Week 9 | 02-03-2020 to 05-03-2020 | Expert Systems : Definition and Applications, Characteristics of Expert systems, Architecture of a typical Expert System, Expert System Shells, |
| Mid Semester Exams (06-03-2020 to 13-03-2020) | | |
| Week 11 | 14-03-2020, 16-03-2020 to 21-03-2020 | Building an Expert System, Case studies of Expert Systems like MYCIN, Specific Application of AI. |
| Week 12 | 24-03-2020 to 28-03-2020 | Minimax Search Procedure, Adding Alpha-Beta Cutoffs. Complexity of the problem, Syntactic processing: Grammars and Parsers, Augmented Transition Networks; Semantic Analysis: 18 Semantic Grammars, Case Grammars; Discourse and Pragmatic processing |
| Week 13 | 30-03-2020 to 04-04-2020 | Using Focus in Understanding, Modeling Beliefs; Introduction to Perception :Vision using Low-Level and High-Level Image Features and Action: Navigation and Manipulation |
| Week 14 | 07-04-2020 to 11-04-2020 | Information and Knowledge, Knowledge Acquisition and Manipulation, Issues in Knowledge Representation, Knowledge Representation Methods, |
| Week 15 | 15-04-2020 to 18-04-2020 | Propositional Logic and First Order Predicate Logic, Resolution: Definition, Conversion to ClauseForm, |
| Week 16 | 20-04-2020 to 24-04-2020 | Resolution in Propositional and Predicate Logic, Unification and Resolution Principle; Horn's Clauses, Semantic Networks, |
| Week 17 | 27-04-2020 to 02-05-2020 | Partitioned Semantic Nets, Frames, Scripts and Conceptual Dependencies |
| Week 18 | 04-05-2020 | Revision |

**Post Graduate Govt. College for Girls, Sector-42, Chandigarh**

**Teaching Plan (Even Semester) Session (2019-2020)**

**Class: BCA 2nd Sem**   **Name of the Teacher: Monika Gogna**

**Subject: Fundamentals of Web Programming Period: 3rd & 5th**

**Paper: BCA-16-203 Room No:101**

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| **S. No** | **Dates** | **Topics to be Covered** |
| Week 1 | 09-01-2020 to 11-01-2020 | Web Server; Web Client/Browser, Understanding how a Browser communicates with a Web Server, Website, |
| Week 2 | 13-01-2020 to 18-01-2020 | Webpage, Static Website, Dynamic Website, Internet, Intranet, Extranet, WWW, URL |
| Week 3 | 20-01-2020 to 25-01-2020 | Structure of an HTML program, Paragraph Breaks, Line Breaks; Emphasizing Material in a Web Page (Heading Styles, Drawing Lines); |
| Week 4 | 27-01-2020 to 01-02-2020 | Text Styles (Bold, Italics, Underline); Other Text Effects (Centering (Text, Images etc.) |
| Week 5 | 03-02-2020 to 08-02-2020 | Lists: Unordered List, Ordered Lists, Definition lists Adding Graphics to HTML Documents using the Border, |
| Week 6 | 10-02-2020 to 15-02-2020 | Width, Height, Align, ALT Attributes Tables: Caption Tag, Width, Border, Cell padding, Cell spacing |
| Week 7 | 17-02-2020 to 22-02-2020 | BGCOLOR, COLSPAN and ROWSPAN Attributes. Anchor tag, External Document References, Internal Document References and Image Maps |
| Week 8 | 24-02-2020 to 29-02-2020 | Introduction to Frames: The tag, The tag, Targeting Named Frames, Introduction to cascading style sheets (CSS), Style tag, Link tag, Types of CSS: In-Line, Internal, External |
| Week 9 | 02-03-2020 to 05-03-2020 | Attributes of Form element, Input element, The Text Element, Password, Button, Submit Button, Reset Button, The Checkbox, Radio, TextArea, Select and Option |
| Mid Semester Exams (06-03-2020 to 13-03-2020) | | |
| Week 11 | 14-03-2020, 16-03-2020 to 21-03-2020 | Introduction and Features of JavaScript, Writing JavaScript into HTML, tokens, data types, variables, operations, control constructs, |
| Week 12 | 24-03-2020 to 28-03-2020 | strings arrays, functions, core language objects, client side objects, event handling. Applications related to client side form validation. |
| Week 13 | 30-03-2020 to 04-04-2020 | Other Built-In Objects in JavaScript: The String Object, The Math Object, The Date Object; |
| Week 14 | 07-04-2020 to 11-04-2020 | Understanding Workspace Layout, Managing Websites, Creating a Website, Using Dreamweaver Templates, Adding New WebPages |
| Week 15 | 15-04-2020 to 18-04-2020 | Text and Page Format, Inserting Tables, Lists, Images, Adding Links. |
| Week 16 | 20-04-2020 to 24-04-2020 | Web Hosting: Understanding Domain Name & Web Space, Getting a Domain Name & Web Space (Purchase or Free), |
| Week 17 | 27-04-2020 to 02-05-2020 | Uploading the Website to Remote Server, Introduction to Open Source Third party FTP Tools |
| Week 18 | 04-05-2020 | Revision |