**Lesson Plan**

**Name of the Assistant Professor**- Ms. Alpa Sharma

**Subject**- Computer Science & Applications

**Lesson Plan**- 17 Weeks (July-Nov 2018)

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| **Week** | **Date** | **BCA (Vth Sem)**  **Artificial Intelligence** | **BSc CSc (IIIrd Sem)**  **Software Engineering** | **BSc CAV (VTH Sem)**  **Office Automation Tools** |
| 1 | 16-July-18 | Intelligence, AI Concepts, Various definitions of AI | Introduction: Program vs. Software,Software Engineering |  |
| 17-July-18 | Knowledge, Knowledge  Pyramid | Programming paradigms |  |
| 18-July-18 | People and Computers: What computers can do better that people, what people can do better  than computers | Software Crisis –problem and causes |  |
| 19-July-18 |  |  | Desktop Publishing: Concept, Need and Applications |
| 20-July-18 |  |  | Hardware and Software requirements for  DTP, An Overview and comparison between DTP package |
| 21-July-18 |  |  | Common features of DTP.  Introduction to Page Maker: Features |
| 22-July-18 | Sunday | | |
| 2 | 23-July-18 | Characteristics of AI Problems, Problem Representation in AI | Phases in Software development: Requirement  Analysis |  |
| 24-July-18 | Components of AI, AI  Evolution | Software Design, Coding |  |
| 25-July-18 | Application Areas of AI, History of AI | Testing, Maintenance |  |
| 26-July-18 |  |  | System Requirements, Components of Page Maker Window |
| 27-July-18 |  |  | Creating of Publications: Starting PageMaker, Setting Page size, Placing the text |
| 28-July-18 |  |  | Formatting the text: Character Specification |
| 29-July-18 | Sunday | | |
| 3 | 30-July-18 | The Turing Test, The Revised Turing Test | Software Development Process Models |  |
| 31-July-18 | Shaheedi udham singh’s martyrdom day | | |
| 1-Aug-18 | Expert System: Components of Expert System: Knowledge Base | Waterfall, Prototype |  |
| 2-Aug-18 |  |  | Formatting the text: Character Specification |
| 3-Aug-18 |  |  | Paragraph setting: Paragraph Specification |
| 4-Aug-18 |  |  | Paragraph setting: Paragraph Specification |
| 5-Aug-18 | Sunday | | |
| 4 | 6-Aug-18 | Test | Evolutionary and Spiral models |  |
| 7-Aug-18 | Inference Engine, User Interface | Role of Metrics. |  |
| 8-Aug-18 | Features of Expert System, Expert System Life Cycle | Feasibility Study |  |
| 9-Aug-18 |  |  | Define Styles,  Hyphenation |
| 10-Aug-18 |  |  | Header & Footer, Page Numbering, |
| 11-Aug-18 |  |  | PRACTICAL SESSION |
| 12-Aug-18 | Sunday | | |
| 5 | 13-Aug-18 | Haryali teej | | |
| 14-Aug-18 | Advantages/Limitations of Expert System | Software Requirement Analysis  and Specifications: SRS |  |
| 15-Aug-18 | Independence day | | |
| 16-Aug-18 |  |  | Saving and Closing publication. |
| 17-Aug-18 | Holiday | | |
| 18-Aug-18 |  |  | Editing Publication |
| 19-Aug-18 | Sunday | | |
| 6 | 20-Aug-18 | Categories of Expert System | Need for SRS, Characteristics of an SRS |  |
| 21-Aug-18 | Assignment 1 with Viva | Components of an SRS Problem Analysis |  |
| 22-Aug-18 | Id-ul-zuha(bakrid) | | |
| 23-Aug-18 |  |  | Open a publication ,Story editor |
| 24-Aug-18 |  |  | Find and change the text, Change character  and Paragraph attributes |
| 25-Aug-18 |  |  | Find and change the text, Change character  and Paragraph attributes |
| 26-Aug-18 | Sunday | | |
| 7 | 27-Aug-18 | Assignment 1 with viva | Components of an SRS Problem Analysis |  |
| 28-Aug-18 | Assignment 1 with viva | Information gathering tools, Organising and structuring information |  |
| 29-Aug-18 | Categories of Expert System, Rule Based vs.  Model Based Expert Systems | Requirement specification,  validation and metrics |  |
| 30-Aug-18 |  |  | Assignment 1 with viva |
| 31-Aug-18 |  |  | spell checking ,Selecting text, Cut, Copy, Paste, Paste multiple |
| 1-Sep-18 |  |  | Working  with columns |
| 2-Sep-18 | Sunday | | |
| 8 | 3-Sep-18 | Janmashtmi | | |
| 4-Sep-18 | Developing an Expert  System: Identification | Assignment 1 with viva |  |
| 5-Sep-18 | Implementation, Testing, | Structured Analysis and Tools |  |
| 6-Sep-18 |  |  | Control palette:Manipulating objects, formatting the text |
| 7-Sep-18 |  |  | Control palette:Manipulating objects, formatting the text |
| 8-Sep-18 |  |  | Test |
| 9-Sep-18 | Sunday | | |
| 9 | 10-Sep-18 | Using an Expert  System | Data Flow Diagram, Data Dictionary |  |
| 11-Sep-18 | Application Areas of Expert System | Decision table, Decision trees |  |
| 12-Sep-18 | AI and Search Process | Structured English, Entity  -Relationship diagrams |  |
| 13-Sep-18 |  |  | Book, Table of Contents, Creating Index, Index entry |
| 14-Sep-18 |  |  | Show Index, Print  Working with Graphics: Insert Objects |
| 15-Sep-18 |  |  | Paste Special, Linking the graphics |
| 16-Sep-18 | Sunday | | |
| 10 | 17-Sep-18 | Brute Force Search:  Depth First/Breadth First Search | Software Project Planning:  Cost estimation |  |
| 18-Sep-18 | Brute Force Search:  Depth First/Breadth First Search | COCOMO model,  Project scheduling |  |
| 19-Sep-18 | Heuristic Search: Hill  Climbing | Test |  |
| 20-Sep-18 |  |  | Link the option, Link  Information |
| 21-Sep-18 |  |  | editing original ,Text wrap |
| 22-Sep-18 |  |  | Bring to Front, Send to Back, Reversing the Text |
| 23-Sep-18 | Sunday | | |
| 11 | 24-Sep-18 | Constraint Satisfaction, Mean End Analysis | Staffing and personnel planning, team structure |  |
| 25-Sep-18 | Best First Search | Software configuration management, Quality assurance plans |  |
| 26-Sep-18 | A\* Algorithm | Project monitoring plans, Risk Management |  |
| 27-Sep-18 |  |  | Working with Frame: Introduction |
| 28-Sep-18 |  |  | Test |
| 29-Sep-18 |  |  | Creating Frames, editing |
| 30-Sep-18 | Sunday | | |
| 12 | 1-Oct-18 | AO\*  Algorithm | Software testing strategies: unit testing |  |
| 2-Oct-18 | Mahatma gandhi’s jayanti | | |
| 3-Oct-18 | Beam Search. | Assignment 2 with viva |  |
| 4-Oct-18 |  |  | Creating Frames, editing |
| 5-Oct-18 |  |  | Frame options, Dialog Box |
| 6-Oct-18 |  |  | Frame options, Dialog Box |
| 7-Oct-18 | Sunday | | |
| 13 | 8-Oct-18 | Assignment 2 with viva | V and V , System testing |  |
| 9-Oct-18 | Assignment 2 with viva | Alpha and Beta testing |  |
| 10-Oct-18 | Maharaja aggarsen jayanti | | |
| 11-Oct-18 |  |  | Assignment 2 with viva |
| 12-Oct-18 |  |  | Working with colors: Introduction |
| 13-Oct-18 |  |  | Working with colors: |
| 14-Oct-18 | Sunday | | |
| 14 | 15-Oct-18 | Natural Language Processing: Introduction, Need, Goal, | SESSIONAL |  |
| 16-Oct-18 | SESSIONAL | Black box |  |
| 17-Oct-18 | Fundamental Problems in Natural Language  Understanding | white box testing |  |
| 18-Oct-18 | Dussehra | | |
| 19-Oct-18 |  |  | Applying colors, Replacing & removing colors, Editing a color |
| 20-Oct-18 |  |  | Working with Table: Setting &creating a new table, Close table |
| 21-Oct-18 | Sunday | | |
| 15 | 22-Oct-18 | How People overcome Natural Language Problems | Cyclomatic Complexity |  |
| 23-Oct-18 | Speech Recognition: Introduction,  Advantages and Approaches | Software Implementation and Maintenance |  |
| 24-Oct-18 | Maharishi valmiki’s birthday | | |
| 25-Oct-18 |  |  | SESSIONAL |
| 26-Oct-18 |  |  | Selecting text, Cell rows &  columns Typing, Editing & Formatting text in table |
| 27-Oct-18 |  |  | Cutting, Copying & Pasting Information  Setting up Master Pages |
| 28-Oct-18 | Sunday | | |
| 16 | 29-Oct-18 | Introduction to Robotics: Parts of a Robot | Type of maintenance Management of Maintenance |  |
| 30-Oct-18 | Controlling a Robot, | Maintenance Process,  maintenance characteristics |  |
| 31-Oct-18 | Intelligent Robots, Mobile Robots | REVISION |  |
| 1-Nov-18 | Haryana day | | |
| 2-Nov-18 |  |  | Design a Grid, Guiding the Grid |
| 3-Nov-18 |  |  | Understanding Master Pages, Rulers  options |
| 4-Nov-18 | Sunday | | |
| 17 | 5-Nov-18 | REVISION | REVISION | REVISION |
| 6-Nov-18 | Holiday | | |
| 7-Nov-18 | Diwali | | |
| 8-Nov-18 | Holiday | | |
| 9-Nov-18 | Vishavkarma day | | |
| 10-Nov-18 | Holiday | | |
| 11-Nov-18 | Sunday | | |
| 18 | 12-Nov-18 | Holiday | | |
| 13-Nov-18 | Holiday | | |
| 14-Nov-18 | REVISION | REVISION | REVISION |