**Lesson Plan**

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| **Discipline** : Computer Engineering **Semester** :7th **Subject** : Expert System **Lesson Plan Duration** : 15 weeks (from August 2022 to December 2022) | | |
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| week | lectures | topics |
| 1 | 1st | **Unit-1** Introduction to Expert Systems |
| 2nd | Representation and organization of knowledge |
| 3rd | Basics characteristics of Expert System |
| 2 | 4th | Architecture of Expert system |
| 5th | Types of problems handled by expert systems |
| 6th | Advantages and Disadvantages of Expert System |
| 3 | 7th | Revision of Unit -1 |
| 8th | Case study of PROSPECTOR |
| 9th | Where Expert System is Used |
| 4 | 10th | **Unit-2** Techniques of knowledge representations in expert systems(Logics) |
| 11th | Techniques of knowledge representations in expert systems(Semantic net) |
| 12th | Knowledge engineering |
| 5 | 13th | Knowledge engineering Process |
| 14th | System-building aids |
| 15th | Support facilities |
| 6 | 16th | Stages in the development of expert systems. |
| 17th | Conceptualization and implementation of Expert System |
| 18th | Revision of Unit -2 |
| 7 | minor Test 1 | |
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| 8 | 19th | Revision of Unit -1 |
| 20th | Revision of Unit -1 & 2 |
| 21th | **Unit-3** Expert system development |
| 9 | 22th | Expert system development |
| 23th | Selection of tool |
| 24th | Selection of tool |
| 10 | 25th | Acquiring Knowledge |
| 26th | Acquiring Knowledge |
| 27th | Building process |
| 11 | 28th | Revision of unit-3 |
| 29th | **Unit-4** Difficulties in Expert system |
| 30th | Common pitfalls in planning(Choosing a appropriate problem) |
| 12 | 31th | Common pitfalls in planning(Resources for building the System) |
| 32th | Common pitfalls in planning(Choosing Expert System building tool) |
| 33th | Dealing with domain  expert |
| 13 | 34th | Pitfall in Dealing with domain expert |
| 35th | Pitfall during Development process (System Implementation) |
| 36th | Pitfall during Development process (System Testing) |
| 14 | Minor Test 2 | |
| 15 | 37th | Pitfall during Development process (System Evaluation) |
| 38th | Revision of unit-4 |
| 39th | Revision of full syllabus |