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| Lesson Plan  |  |
| **Name of the faculty :** | POONAM SHARMA |
| **Discipline :** | Electrical |
| **Semester :** | 4th |
| **Subject**  |  | PROGRAMMING SKILLS |
| **Lesson Plan Duration :** | 15 weeks (from 20 Jan2025 to MAY 2025) |
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| **Work load (Lecture/Practical) per week (55 minutes) : Lectures-03**  |
|  |  |  |
| **Week** | **Theory** |
| **PRACTICAL day** | **Topic (Including assignment/test)** |
| 1st | Ist | Introduction |
| 2nd | **UNIT I****AUTOCAD Electrical**** Introduction to electrical CAD interface** |
| 2nd | Ist | **Preparing circuits using electrical components** |
| 2nd | CHECKING |
| 3rd | Ist | **UNIT II****Electrical Circuit Simulation (Using Qucs/Similar Open Source Application) Introduction to simulator interface** |
| 2nd | **Preparing Resistive circuit with voltage and current probes** |
| 4th | Ist | **Preparing R-L circuit with voltage and current probes** |
| 2nd | **Preparing R-L-C circuit with voltage and current probes** |
| 5th | Ist | **Preparing Diode based circuits e.g. clipper, rectifier etc.** |
| 2nd | **Preparing logic gates based circuits** |
| 6th | Ist | **Preparing logic gates based circuits** |
| 2nd | **CHECKING** |
| 7th | Ist | **UNIT III****My Open Lab/PyLab Works**** Introduction to My Open Lab** |
| 2nd | ** My Open Lab Interface** |
| 8th | Ist | ** My Open Lab Interface** |
| 2nd | **Virtual circuit design using My Open Lab** |
| 9th | Ist | **Virtual circuit design using My Open Lab** |
| 2nd | CHECKING |
| 10th | Ist | **UNIT IV****MATLAB/SciLab**** Introduction to MATLAB** |
| 2nd | ** MATLAB Programming – input/output, graphs, functions, loops, structures** |
| 11th | Ist | ** MATLAB Programming – input/output, graphs, functions, loops, structures** |
| 2nd | **MATLAB programs for simple electrical circuits** |
| 12th | Ist | **MATLAB programs for simple electrical circuits** |
| 2nd | PRACTICAL CHECKING |
| 13th | Ist | PRACTICAL CHECKING |
| 2nd | REVISION |
| 14th | Ist | REVISION |
| 2nd | REVISION |
| 15th | Ist | REVISION |
| 2nd | REVISION |