

**Govt. Polytechnic ,Dhangar**  
**Electrical Engineering Department**  
**Lesson plan**

<b>Name of Faculty</b>		<b>Mr. Parveen Kumar</b>
<b>Discipline</b>		<b>Electrical Engineering</b>
<b>Semester</b>		<b>4<sup>th</sup></b>
<b>Subject</b>		<b>Programming Skills</b>
<b>Lesson Plan Duration</b>		<b>From 15 Feb 2024 to 14 June 2024</b>
<b>Work load [Theory + Practical] Per Week</b>		<b>[00+06]</b>
<b>Week</b>	<b>Topic/ Practical</b>	
1 <sup>st</sup>	Autocad Electrical <ul style="list-style-type: none"> <li>• Introduction to electrical CAD interface</li> </ul>	
2 <sup>nd</sup>	Previous continued....	
3 <sup>rd</sup>	Preparing circuits using electrical components	
4 <sup>th</sup>	Previous continued....	
5 <sup>th</sup>	Electrical Circuit Simulation (Using Qucs/Similar Open Source Application) <ul style="list-style-type: none"> <li>• Introduction to simulator interface</li> </ul>	
6 <sup>th</sup>	<ul style="list-style-type: none"> <li>• Preparing Resistive circuit with voltage and current probes</li> <li>• Preparing R-L circuit with voltage and current probes</li> </ul>	
7 <sup>th</sup>	<ul style="list-style-type: none"> <li>• Preparing R-L-C circuit with voltage and current probes</li> <li>• Preparing Diode based circuits e.g. clipper, rectifier etc.</li> </ul>	
8 <sup>th</sup>	<ul style="list-style-type: none"> <li>• Preparing logic gates based circuits</li> </ul>	
9 <sup>th</sup>	MyOpenLab/PyLab Works <ul style="list-style-type: none"> <li>• Introduction to MyOpenLab</li> </ul>	
10 <sup>th</sup>	<ul style="list-style-type: none"> <li>• MyOpenLab Interface</li> </ul>	
11 <sup>th</sup>	<ul style="list-style-type: none"> <li>• Virtual circuit design using MyOpenLab</li> </ul>	
12 <sup>th</sup>	Previous continued....	
13 <sup>th</sup>	MATLAB/SciLab <ul style="list-style-type: none"> <li>• Introduction to MATLAB</li> </ul>	
14 <sup>th</sup>	<ul style="list-style-type: none"> <li>• MATLAB Programming – input/output, graphs, functions, loops, structures</li> </ul>	
15 <sup>th</sup>	<ul style="list-style-type: none"> <li>• MATLAB programs for simple electrical circuits</li> </ul>	
16 <sup>th</sup>	Revision /Doubt class	
17 <sup>th</sup>	Revision /Doubt class	
18 <sup>th</sup>	Revision /Doubt class	

