















## SOET-BTech(MechanicalEngineering)

### Course mapping with relevance to the local, regional, national, and global developmental needs

<b>Title of the Course</b>	Principles of Electrical Engineering		
<b>Course Code</b>	EEL0201[T]		
<b>Course Outcomes &amp; Bloom's Level</b>	<p><b>CO1-</b> Predict the behavior of any electrical circuits, Formulate and solve complex DC circuits.<b>(BL1-Remember)</b></p> <p><b>CO2-</b> Predict the behavior of any electrical circuits, Formulate and solve complex single phase AC circuits.<b>(BL2-Understand)</b></p> <p><b>CO3-</b> Predict the behavior of any electrical circuits, Formulate and solve complex Three phase AC circuits.<b>(BL3-Apply)</b></p> <p><b>CO4-</b> Identify the type of electrical machine used for that particular application. Realize the requirement of transformers in transmission and distribution of electric power and other applications.<b>(BL4-Analyze)</b></p> <p><b>CO5-</b> Predict the behavior of various measuring instruments in electrical engineering<b>(BL5-Evaluate)</b></p>		
<b>Course Elements</b>	Skill Development ✓ Entrepreneurship ✗ Employability ✗ Professional Ethics ✗ Gender ✗ Human Values ✗ Environment ✗	<b>SDG (Goals)</b>	SDG9(Industry Innovation and Infrastructure)

#### Course Articulation Matrix

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	2	1	1	-	-	-	-	-	-	-	1	1	2
CO2	1	1	2	1	1	3	-	1	-	-	1	-	2	3	1
CO3	2	1	2	1	2	-	2	-	2	2	-	-	1	2	2
CO4	1	3	1	2	3	-	-	-	-	-	-	-	3	1	3
CO5	1	1	1	2	1	-	-	-	-	-	-	-	2	2	1
CO6	1	1	1	1	1	-	-	-	-	-	-	3	1	3	2





































































































































