B. Sc. Electrical Engineering

<table>
<tr><td colspan="5" align="center">Section: Theory A------- Lab A</td></tr>
<tr><td></td><td>Course Code</td><td>Course Title</td><td>Credit Hours</td><td>Sections</td></tr>
<tr><td rowspan="8">Semester 1</td><td>ICT 101</td><td>Applications of ICT</td><td>2</td><td>1</td></tr>
<tr><td>ICTL 101</td><td>Applications of ICT Lab</td><td>1</td><td>1</td></tr>
<tr><td>EEMT1013</td><td>Applied Mathematics I</td><td>3</td><td>1</td></tr>
<tr><td>EE1112</td><td>Applied Physics</td><td>2</td><td>1</td></tr>
<tr><td>EE1111</td><td>Applied Physics Lab</td><td>1</td><td>1</td></tr>
<tr><td>ENG 110</td><td>Functional English</td><td>3</td><td>1</td></tr>
<tr><td>PAK102</td><td>Ideology & Constitution of Pakistan</td><td>2</td><td>1</td></tr>
<tr><td>ENT102</td><td>Fundamentals of Entrepreneurship</td><td>2</td><td>1</td></tr>
<tr><td rowspan="9">Semester 3</td><td>Course Code</td><td>Course Title</td><td>Credit Hours</td><td>Sections</td></tr>
<tr><td>EECS2223</td><td>Data Structures and Algorithms</td><td>3</td><td>1</td></tr>
<tr><td>EECS2221</td><td>Data Structures and Algorithms Lab</td><td>1</td><td>1</td></tr>
<tr><td>EE2323</td><td>Electronic Devices and Circuits</td><td>3</td><td>1</td></tr>
<tr><td>EE2321</td><td>Electronic Devices and Circuits Lab</td><td>1</td><td>1</td></tr>
<tr><td>EE2823</td><td>Electrical Network Analysis</td><td>3</td><td>1</td></tr>
<tr><td>EE2821</td><td>Electrical Network Analysis Lab</td><td>1</td><td>1</td></tr>
<tr><td>EEHU2072</td><td>Communication and Presentation Skills</td><td>2</td><td>1</td></tr>
<tr><td>EEMT2033</td><td>Applied Mathematics III</td><td>3</td><td>1</td></tr>
<tr><td rowspan="5">Semester 5</td><td>Course Code</td><td>Course Title</td><td>Credit Hours</td><td>Sections</td></tr>
<tr><td>EE3323</td><td>Microprocessor Based System</td><td>3</td><td>1</td></tr>
<tr><td>EE3331</td><td>Microprocessor-Based System Lab</td><td>1</td><td>1</td></tr>
<tr><td>EE3523</td><td>Electromagnetic Field Theory</td><td>3</td><td>1</td></tr>
<tr><td>EEET3703</td><td>Industrial Process Control</td><td>3</td><td>1</td></tr>
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	Course Code	Course Title	Credit Hours	Sections
S.	EEET3701	Industrial Process Control Lab	1	1
	EE3533	Communication Systems	3	1
	EE3531	Communication Systems Lab	1	1
	EEMT3013	Numerical Analysis	3	1
Semester 7	**Course Code**	**Course Title**	**Credit Hours**	**Sections**
	EE4253	Machine Learning & AI	3	1
	EE4251	Machine Learning & AI Lab	1	1
	PEN4113	Power Transmission & Distribution	3	1
	PEN4111	Power Transmission & Distribution Lab	1	1
	EEMG4033	Entrepreneurship	3	1
	EEMT4053	Probability Methods for Engineers	3	1
	EE4912	Design Project I	2	1