

**BACHELOR OF ELECTRICAL ENGINEERING WITH HONOURS (CEEE223)**  
**SCHOOL OF ELECTRICAL ENGINEERING**  
**(Since March 2022)**

Sem	Component	Course Code	Course	Credit Hour	Contact Hour			Total Contact Hour	Pre-Requisite
					Lect	Tut	Lab		
1	UNIVERSITY	HEP1	CO-CURRICULUM I	1	2	0	0	2	
1	FACULTY	MAT435	CALCULUS FOR ENGINEERS	3	3	1	0	4	
1	FACULTY	ELE412	CIRCUIT ANALYSIS	3	3	1	0	4	
1	FACULTY	EPO413	ELECTRICAL ENGINEERING LABORATORY I	1	0	0	3	3	
1	PROGRAMME	EPO400	ELECTRICAL PRACTICES	1	0	0	3	3	
1	PROGRAMME	ELE422	ANALOGUE ELECTRONICS	3	3	1	0	4	
1	PROGRAMME	ECE422	DIGITAL ELECTRONIC FUNDAMENTALS	3	3	1	0	4	
<b>Total</b>				<b>15</b>	<b>14</b>	<b>4</b>	<b>6</b>	<b>24</b>	
2	UNIVERSITY	HEP2	CO-CURRICULUM II	1	2	0	0	2	
2	UNIVERSITY	CTU552	PHILOSOPHY AND CURRENT ISSUES	2	2	0	0	2	
2	FACULTY	ESE461	SIGNALS AND SYSTEMS	3	3	1	0	4	
2	FACULTY	ECE431	COMPUTER PROGRAMMING	3	2	0	2	4	
2	FACULTY	ECM412	COMMUNICATION ENGINEERING FUNDAMENTALS	3	3	1	0	4	
2	FACULTY	EPO460	POWER ENGINEERING	3	3	1	0	4	
2	PROGRAMME	EPO423	ELECTRICAL ENGINEERING LABORATORY II	1	0	0	3	3	
<b>Total</b>				<b>16</b>	<b>15</b>	<b>3</b>	<b>5</b>	<b>23</b>	
3	UNIVERSITY	HEP3	CO-CURRICULUM III	1	2	0	0	2	
3	UNIVERSITY	ELC590	ENGLISH FOR ORAL PRESENTATIONS	2	2	0	0	2	
3	UNIVERSITY	CTU554	VALUES AND CIVILIZATION II	2	2	0	0	2	
3	FACULTY	MAT455	FURTHER CALCULUS FOR ENGINEERS	3	3	1	0	4	MAT435
3	FACULTY	ECE521	MICROPROCESSOR SYSTEM	3	2	0	2	4	
3	FACULTY	ESE439	INSTRUMENTATION AND CONTROL SYSTEMS	3	3	1	0	4	ESE461
3	PROGRAMME	KJM442	HEAT AND FLUID	3	3	1	0	4	
<b>Total</b>				<b>17</b>	<b>17</b>	<b>3</b>	<b>2</b>	<b>22</b>	<b>0</b>
4	UNIVERSITY	APB1	THIRD LANGUAGE I	2	2	0	0	2	
4	FACULTY	MAT575	INTRODUCTION TO NUMERICAL ANALYSIS	3	3	1	0	4	MAT455
4	PROGRAMME	EPO525	ELECTROMAGNETIC THEORY FOR POWER ENGINEERING	3	3	1	0	4	MAT435
4	PROGRAMME	EPO540	ELECTRICAL MACHINES	3	3	1	0	4	EPO460
4	PROGRAMME	EPO520	POWER SYSTEM I	3	3	1	0	4	EPO460
4	PROGRAMME	EPO562	ELECTRICAL ENGINEERING LABORATORY III	2	0	0	4	4	
4	FACULTY	ECE523	INTRODUCTION TO IOT AND DATA ANALYTICS IN ENGINEERING	2	1	0	2	3	
<b>Total</b>				<b>18</b>	<b>15</b>	<b>4</b>	<b>6</b>	<b>22</b>	
5	UNIVERSITY	APB2	THIRD LANGUAGE II	2	2	0	0	2	
5	FACULTY	STA408	STATISTICS FOR SCIENCE AND ENGINEERING	3	3	1	0	4	
5	PROGRAMME	EPO510	POWER ELECTRONICS	3	3	1	0	4	
5	PROGRAMME	EPO522	POWER SYSTEM II	3	3	1	0	4	EPO520
5	PROGRAMME	ESE559	MODERN CONTROL SYSTEM IN ELECTRICAL ENGINEERING	3	3	1	0	4	ESE461
5	<b>ELECTIVE</b>		<b>OPEN ELECTIVE</b>	3	3	1	0	4	
<b>Total</b>				<b>17</b>	<b>17</b>	<b>5</b>	<b>0</b>	<b>22</b>	
6	UNIVERSITY	APB3	THIRD LANGUAGE III	2	2	0	0	2	

6	UNIVERSITY	ELC640	ENGLISH FOR JOB APPLICATIONS	2	2	0	0	2	
6	PROGRAMME	EPO563	ELECTRICAL ENGINEERING LABORATORY IV	2	0	0	4	4	
6	PROGRAMME	EPO640	ELECTRIC DRIVES	3	3	1	0	4	EPO510
6	PROGRAMME	EPO630	INTEGRATED DESIGN PROJECT	4	2	0	2	4	
6	PROGRAMME	EPO652	POWER GENERATION & ENERGY UTILIZATION	3	2	0	2	4	
6	<b>ELECTIVE</b>		<b>ELECTIVE I</b>	3	3	1	0	4	
<b>Total</b>				<b>19</b>	<b>14</b>	<b>2</b>	<b>8</b>	<b>24</b>	
7	FACULTY	EEE621	ENGINEER AND SOCIETY	4	3	1	0	4	
7	UNIVERSITY	EET699	ENGLISH EXIT TEST	0	0	0	0	0	
7	FACULTY	EPO667	INDUSTRIAL TRAINING	4	0	0	8	8	
7	PROGRAMME	EPO661	POWER ENGINEERING PROJECT I	2	1	0	3	4	
7	PROGRAMME	EPO662	ELECTRICAL ENGINEERING LABORATORY V	2	0	0	4	4	
7	PROGRAMME	EPO630	HIGH VOLTAGE	3	3	1	0	4	EPO460
7	<b>ELECTIVE</b>		<b>ELECTIVE II</b>	3	3	1	0	4	
<b>Total</b>				<b>18</b>	<b>10</b>	<b>3</b>	<b>15</b>	<b>28</b>	
8	UNIVERSITY	ENT600	TECHNOLOGY ENTREPRENEURSHIP	3	3	1	0	4	
8	PROGRAMME	EPO663	POWER ENGINEERING PROJECT II	5	0	0	15	15	EPO661
8	PROGRAMME	EPO664	SELECTED TOPICS FOR ELECTRICAL ENGINEERING	4	4	0	0	4	
8	<b>ELECTIVE</b>		<b>ELECTIVE III</b>	3	3	1	0	4	
<b>Total</b>				<b>15</b>	<b>10</b>	<b>2</b>	<b>15</b>	<b>27</b>	<b>0</b>
<b>TOTAL CREDIT HOUR</b>				<b>135</b>	<b>112</b>	<b>26</b>	<b>57</b>	<b>192</b>	<b>0</b>

## ELECTIVE COURSES

Sem	Component	Course Code	Course Name	Credit Hour	Contact Hour			Total Contact Hour	Pre-Requisite
					Lect	Tut	Lab		
<b>ELECTIVE I</b>									
6	POWER	EPO620	ARTIFICIAL INTELLIGENCE IN POWER SYSTEM	3	3	1	0	4	
6	POWER	EPO625	NUMERICAL COMPUTATION IN POWER SYSTEM RELIABILITY	3	3	1	0	4	
6	SYSTEM	ESE562	SIGNALS AND SYSTEMS: ANALYSIS AND APPLICATIONS	3	3	1	0	4	ESE461
6	SYSTEM	ESE644	PROGRAMMABLE LOGIC CONTROLLER AND AUTOMATION	3	3	1	0	4	
<b>ELECTIVE II</b>									
7	POWER	EPO621	ELECTRICAL ENERGY ECONOMICS AND PLANNING	3	3	1	0	4	
7	POWER	EPO626	SUSTAINABLE ENERGY MANAGEMENT	3	3	1	0	4	
7	SYSTEM	ESE563	DIGITAL SIGNAL PROCESSING	3	3	1	0	4	
7	SYSTEM	ESE652	PROCESS CONTROL	3	3	1	0	4	
<b>ELECTIVE III</b>									
8	POWER	EPO622	RENEWABLE ENERGY	3	3	1	0	4	
8	SYSTEM	ESE643	MODERN CONTROL SYSTEMS	3	3	1	0	4	
8	COMMUNICATION	ECM616	EMERGING TECHNOLOGIES	3	3	1	0	4	