

**B.E. ELECTRICAL AND ELECTRONICS ENGINEERING****Regulation 2023****Semester I**

Sl. No.	Course Code	Course Title	Category	Contact Periods	L	T	P	C
<b>THEORY</b>								
	-	Induction Program	-	-	-	-	-	-
1	U23MA201	Calculus for Engineers	BS	4	3	1	0	4
2	U23CS301	Problem Solving using C	ES	3	3	0	0	3
3	U23ME301	Engineering Graphics	ES	4	2	0	2	3
4	U23MC901	தமிழர் மரபு / Heritages of Tamils	HSMC	1	1	0	0	1
<b>THEORY CUM PRACTICAL</b>								
6	U23HS181	Technical English	HS	4	2	0	2	3
5	U23PH282	Semiconductor Physics	BS	5	3	0	2	4
<b>PRACTICALS</b>								
7	U23GE351	Engineering Practices Laboratory	ES	4	0	0	4	2
8	U23CS351	Problem Solving using C Laboratory	ES	4	0	0	4	2
<b>PROFESSIONAL DEVELOPMENT</b>								
9	U23EM751	Soft Skills	EM	2	0	0	2	1
<b>TOTAL</b>				<b>31</b>	<b>14</b>	<b>1</b>	<b>16</b>	<b>23</b>

**Semester II**

Sl. No.	Course Code	Course Title	Category	Contact Periods	L	T	P	C
<b>THEORY</b>								
1	U23MA205	Complex Variables and Transforms	BS	4	3	1	0	4
2	U23CS401	Data Structures	ES	3	3	0	0	3
3	U23EE401	Circuit Theory	PC	4	3	1	0	4
4	U23MC902	தமிழரும் தொழில்நுட்பமும் / Tamils and Technology	HSMC	1	1	0	0	1
<b>THEORY CUM PRACTICAL</b>								
5	U23HS1XX	Language Elective	HS	4	2	0	2	3
6	U23CY281	Engineering Chemistry	BS	5	3	0	2	4
7	U23CS381	Application Design and Development	ES	4	2	0	2	3
<b>PRACTICALS</b>								
8	U23CS451	Data Structures Laboratory	ES	4	0	0	4	2
9	U23EE451	Electric Circuits Laboratory	PC	2	0	0	2	1
10	U23MC951	NCC Credit Course Level 1 #	--	2	2	0	0	2#
<b>TOTAL</b>				<b>31</b>	<b>17</b>	<b>2</b>	<b>12</b>	<b>25</b>

#-NCC Credit Course is offered for NCC Students only

**Semester III**

Sl. No.	Course Code	Course Title	Category	Contact Periods	L	T	P	C
<b>THEORY</b>								
1	U23MA207	Linear Algebra and Partial Differential Equations	BS	4	3	1	0	4
2	U23EE402	Field Theory	PC	4	3	1	0	4
3	U23EE403	Linear and Digital Electronics	PC	3	3	0	0	3
4	U23CS404	Object Oriented Programming using Java	ES	3	3	0	0	3
5	U23OXXXX	Open Elective I*	OE	3	3	0	0	3
	U23MC904	Environmental Science	MC	1	1	0	0	NC
<b>THEORY CUM PRACTICAL</b>								
6	U23CS382	Algorithmic Design Techniques	ES	4	2	0	2	3
<b>PRACTICALS</b>								
7	U23EE452	Linear and Digital Electronics Laboratory	PC	2	0	0	2	1
8	U23CS454	Object Oriented Programming using Java Laboratory	ES	2	0	0	2	1
<b>PROFESSIONAL DEVELOPMENT</b>								
9	U23EM752	Logical Thinking	EM	2	0	0	2	1
<b>TOTAL</b>				<b>28</b>	<b>18</b>	<b>2</b>	<b>8</b>	<b>23</b>

**Semester IV**

Sl. No.	Course Code	Course Title	Category	Contact Periods	L	T	P	C
<b>THEORY</b>								
1	U23MA209	Probability and Statistics	BS	4	3	1	0	4
2	U23EE404	Electrical Machines – I	PC	3	2	1	0	3
3	U23EE405	Control Systems	PC	4	3	1	0	4
4	U23EE406	Measurements and Instrumentation	PC	3	3	0	0	3
5	U23OXXXX	Open Elective II*	OE	3	3	0	0	3
	U23MC903	Universal Human Values	MC	1	1	0	0	NC
<b>THEORY CUM PRACTICAL</b>								
6	U23EE481	Microprocessors and Microcontrollers	PC	5	3	0	2	4
<b>PRACTICALS</b>								
7	U23EE453	Electrical Machines Laboratory – I	PC	3	0	0	3	1.5
8	U23EE454	Control and Instrumentation Laboratory	PC	3	0	0	3	1.5
	U23MC952	NCC Credit Course Level 2 #	--	3	3	0	0	3#
<b>PROJECT</b>								
9	U23EE651	Project using Design Thinking	PW	2	0	0	2	1
<b>PROFESSIONAL DEVELOPMENT</b>								
10	U23EM753	Advanced Logical Thinking	EM	2	0	0	2	1
	U23EM754	Summer Internship	EM	-	-	-	-	NC
<b>TOTAL</b>				<b>33</b>	<b>18</b>	<b>3</b>	<b>12</b>	<b>26</b>

\* L T P C either 3 0 0 3 or 2 0 2 3, #-NCC Credit Course is offered for NCC Students only

**Semester V**

Sl. No.	Course Code	Course Title	Category	Contact Periods	L	T	P	C
<b>THEORY</b>								
1	U23EE407	Electrical Machines – II	PC	3	2	1	0	3
2	U23EE408	Generation, Transmission and Distribution	PC	4	3	1	0	4
3	U23EE409	Power Electronics	PC	3	3	0	0	3
4	U23EE410	Embedded Systems for Automation	PC	3	3	0	0	3
5	U23EE5XX	Professional Elective I	PE	3	3	0	0	3
6	U23OXXXX	Open Elective III*	OE	3	3	0	0	3
<b>PRACTICALS</b>								
7	U23EE456	Electrical Machines Laboratory – II	PC	3	0	0	3	1.5
8	U23EE457	Power Electronics Laboratory	PC	3	0	0	3	1.5
<b>TOTAL</b>				<b>25</b>	<b>17</b>	<b>2</b>	<b>6</b>	<b>22</b>

**Semester VI**

Sl. No.	Course Code	Course Title	Category	Contact Periods	L	T	P	C
<b>THEORY</b>								
1	U23EE411	Power System Analysis and Stability	PC	4	3	1	0	4
2	U23EE412	Solid State Drives	PC	3	3	0	0	3
3	U23EE413	Special Electrical Machines	PC	3	3	0	0	3
4	U23EE5XX	Professional Elective II	PE	3	3	0	0	3
5	U23EE5XX	Professional Elective III	PE	3	3	0	0	3
<b>PRACTICALS</b>								
6	U23EE458	Power Systems Laboratory	PC	2	0	0	2	1
<b>PROJECT</b>								
7	U23EE652	Innovative/ Multi-Disciplinary Project	PW	2	0	0	2	1
<b>TOTAL</b>				<b>20</b>	<b>15</b>	<b>1</b>	<b>4</b>	<b>18</b>

\* L T P C either 3 0 0 3 or 2 0 2 3

**Semester VII**

Sl. No.	Course Code	Course Title	Category	Contact Periods	L	T	P	C
<b>THEORY</b>								
1	U23HS101	Principles of Management	HS	3	3	0	0	3
2	U23EE415	Digital Power System Protection and Switchgear	PC	3	3	0	0	3
3	U23EE5XX	Professional Elective IV	PE	3	3	0	0	3
4	U23EE5XX	Professional Elective V	PE	3	3	0	0	3
5	U23XXXXX	Open Elective IV	OE	3	3	0	0	3
<b>PROJECT</b>								
6	U23EE653	Project Work – Phase I	PW	6	0	0	6	3
<b>TOTAL</b>				<b>21</b>	<b>15</b>	<b>0</b>	<b>6</b>	<b>18</b>

**Semester VIII**

Sl. No.	Course Code	Course Title	Category	Contact Periods	L	T	P	C
<b>PROJECT</b>								
1	U23EE654	Project Work – Phase II	PW	16	0	0	16	8
<b>TOTAL</b>				<b>16</b>	<b>3</b>	<b>0</b>	<b>16</b>	<b>8</b>

**Total Number of Credits: 163**

**SUMMARY**

Sl. No.	Course Category	Credits per Semester								Credits	Credit %
		I	II	III	IV	V	VI	VII	VIII		
1	HS	3	3	-	-	-	-	3	-	9	5.5
2	BS	8	8	4	4	-	-	-	-	24	14.7
3	ES	10	8	7	-	-	-	-	-	25	15.3
4	PC	-	5	8	17	16	11	3	-	60	36.8
5	PE	-	-	-	-	3	6	6	-	15	9.2
6	OE	-	-	3	3	3	-	-	3	12	7.4
7	PW	-	-	-	1	-	1	3	8	13	8.0
8	EM	1	-	1	1	-	-	-	-	3	1.8
9	NC	-	-	-	√	-	-	-	-	-	-
10	MC	-	-	√	√	-	-	-	-	-	-
11	Tamil Courses	1	1	-	-	-	-	-	-	2	1.2
<b>Total</b>		<b>23</b>	<b>25</b>	<b>23</b>	<b>26</b>	<b>22</b>	<b>18</b>	<b>15</b>	<b>11</b>	<b>163</b>	<b>100</b>