

## Model Plan: Electrical & Electronics Engineering

### SEMESTER-I

Course No.	Course Title	Course Type	L	T	P	C	Remarks
MA 101	Mathematics – I	SC	3	1	0	4	
ME 101	Engineering Mechanics	ESC	3	0	0	3	
CH 101	Engineering Chemistry	SC	3	1	2	5	
CE 101	Engineering Drawing	ESC	1	0	4	3	
HS 101	English Language Skills	HSC	2	0	2	3	
EE 101	Basic Electrical Engineering	ESC	3	0	2	4	
			15	2	10		
			<b>27</b>			<b>22</b>	

### SEMESTER II

Course No.	Course Title	Course Type	L	T	P	C	Remarks
MA 102	Mathematics – II	SC	3	1	0	4	
EC 101	Basic Electronics	ESC	3	0	2	4	
PH 101	Engineering Physics	SC	3	1	2	5	
ME 102	Engineering Thermodynamics	ESC	2	0	0	2	
ES 101	Environmental Science	SC	2	0	0	2	
CS 101	Computer Programming	ESC	2	0	2	3	
ME 103	Workshop Practice-I	ESC	0	0	4	2	
			15	2	10		
			<b>27</b>			<b>22</b>	

*Sc. Core (SC); Sc. Electives (SE); Engg. Sc. Core (ESC); HSS Core (HSC); HSS Elective (HSE); Discipline Core (DC); Discipline Elective (DE); Open Elective (OE); Project Work (PW)*

**Semester-III**

Course No.	Course Title	Course Type	Contact Hour			Credit	Remarks
			L	T	P		
MA 201	Mathematics-III	SC	3	0	0	3	
EE 201	Electronic Devices & Circuits	DC	3	1	2	5	
EE 202	Digital Logic Design	DC	3	1	2	5	
EE 203	Network Analysis	DC	3	1	2	5	
CS 210	OE-I (Data Structures & Algorithms)	OE	3	0	2	4	
PH 201	Science Elective (e.g. <b>Physics of Materials/</b> Graph Theory etc.)	SE	3	0	0	3	
			18	3	8		
			29			25	

SC- Science Core, DC- Discipline Core, HSC- HSC Core, OE- Open Elective

**Semester-IV**

Course No.	Course Title	Course Type	Contact Hour			Credit	Remarks
			L	T	P		
EE 204	Measurement & Instrumentation	DC	3	1	2	5	
EE 205	Transmission & Distribution	DC	3	1	2	5	
EE 206	Electrical Machine I	DC	3	1	2	5	
CS 211	OE-II (Object Oriented Programming)	OE	3	0	2	4	
MA 203	Scientific Computing	SC	3	0	0	3	
MA 210	Mathematics Laboratory	SC	0	0	4	2	
	<b>Total</b>		15	3	12		
	<b>Total Contact Hours per week</b>		<b>30</b>			<b>24</b>	

DC- Discipline Core, SE- Science Elective, OE- Open Elective

**SEMESTER-V**

Course No.	Course Title	Course Type	Contact Hour			Credit	Remarks
			L	T	P		
EE 301	Microprocessors & Interfacing	DC	3	0	2	4	
EE 302	Electrical Machines-II	DC	3	1	2	5	
EE 303	Control Systems	DC	3	0	2	4	
EE 311	DE-I (e.g. Power System Analysis)	DE	3	0	0	3	
EE 321	OE-III (e.g. Signals & Systems)	OE	3	0	0	3	
HS 301	Foundations of Management	HSC	3	0	0	3	
			18	1	6		
			<b>25</b>			<b>22</b>	

DC- Discipline Core,

SE- Science Elective,

OE- Open Elective

**SEMESTER-VI**

Course No.	Course Title	Course Type	Contact Hour			Credit	Remarks
			L	T	P		
EE 304	Power Electronics	DC	3	0	2	4	
EE 305	Electromagnetic Theory	DC	3	0	0	3	
EE 306	Protection & Switchgear	DC	3	0	2	4	
EE 312	DE-II (e.g. Embedded Systems)	DE	3	0	2	4	
EC 303	OE-IV (e.g. Digital Signal Processing)	OE	3	0	2	4	
HS 302	Accounting & Financial Methods	HSC	3	0	0	3	
			18	0	8		
			<b>26</b>			<b>22</b>	

DC- Discipline Core,

SE- Science Elective,

OE- Open Elective

**Semester-VII**

Course No.	Course Title	Course Type	Contact Hour			Credit	Remarks
			L	T	P		
EE 401	Project-I	PW	0	0	8	4	
EE nnn	DE-III (Advanced Control System )	DE	3	0	0	3	
EE nnn	DE-IV (Power System Operation & Control )	DE	3	0	2	4	
XX nnn	OE-V (VLSI Design )	OE	3	0	2	4	
HS nnn	Professional Ethics	HSC	2	0	0	2	
HS nnn	HE(e.g. Economics/ Sociology/ Psychology etc.)	HSE	3	0	0	3	
			14	0	12	20	
			<b>26</b>				

PW- Project Work, HSC- HSC Core, HSE- HS Elective, DE- Discipline Elective, OE- Open Elective

**Semester-VIII**

Course No.	Course Title	Course Type	Contact Hour			Credit	Remarks
			L	T	P		
EE 402	Project-II	PW	0	0	16	8	
EE nnn	DE-V (Electric Drives & Control )	DE	3	0	2	4	
EE nnn	DE-VI (Power Quality)	DE	3	0	0	3	
XX nnn	OE-VI (Artificial Intelligence)	OE	3	0	0	3	
			9	0	18		
			27			18	

PW- Project Work,

DE- Discipline Elective,

OE- Open Elective