

Established under the Sarala Birla University Act 2017 Govt. of Jharkhand as per Section 2(f) of UGC Act. 1956

### CURRICULUM FOR

Diploma

in Electrical & Electronics Engineering

### (Based on UGC & AICTE- CBCS)

Effective from 2020-21

	Definition of C	redit					
1 Hr. Lecture (L) Per Week 1 Credit							
1 Hr. Tutorial	(T) Per Week	1 Credit					
1 Hr. Practical	(P) Per Week	0.5 Credit					
2 Hr. Practical	(P) Per Week	1 Credit					
Course Code Definitions Course Code Definitions							
BSC-D	Basic Science Course						
ESC-D	Eng	ineering Science Course					
HSMC-D	Humanities and Socia	l Sciences including Management Course					
ECCA-D	Extra	Co-Curricular Activities					
МС-D		Mandatory Course					
PCC-EEE-D	Pro	ofessional Core Course					
PEC-EEE-D	Prof	essional Elective Course					
OEC-D	Open Elective Course						
EEE-DP1		Project Stage-I					
EEE-DP2		Project Stage-II					
EEE-DP3	Project Stage-III						

Summer Internship-I

Summer Internship-II

EEE-DSI-I

EEE-DSI-II

# **Structure of Electrical & Electronics Engineering (Diploma)**

### (Breakup of Credits)

SI. No.	Category	Breakup of Credits
1	Humanities and Social Sciences including Management courses	13
2	Basic Science courses	19
3	Engineering Science courses including workshop, drawing, basics of electrical/mechanical/computer etc	14
4	Professional core courses	44
5	Professional Elective courses relevant to chosen specialization/branch	15
6	Open subjects – Electives from other technical and /or emerging subjects	11
7	Project Work	8
9	Summer Internship	5
10	Extra Co-Curricular Activities	2
11	Mandatory Course	2
	Total Credits:	133

CI	CREDITS DISTRIBUTION (SEMESTER-WISE AND COURSE-WISE )										
Semester	HSMC	BSC	ESC	PCC	PEC	OEC	PROJECT	ECCA	SUMMER INTERNSHIP	мс	Total Credit Semester-wise
1st	3	7	5.5	0	0	0	0	1	0	2	18.5
2nd	2	12	8.5	0	0	0	0	1	0	0	23.5
3rd	2	0	0	16	4	0	0	0	2	0	24
4th	2	0	0	16	4	0	2	0	0	0	24
5th	0	0	0	8	4	7	2	0	3	0	24
6th	4	0	0	4	3	4	4	0	0	0	19
Total Credit Course- wise	13	19	14	44	15	11	8	2	5	2	133
					Tota	l Credi	it				133

## HUMANITIES AND SOCIAL SCIENCES INCLUDING MANAGEMENT COURSE

SI.	Course Code	Course Title	Ног	ırs per w	eek	Credits	Preferred
No.	Course Code	Course Thie	L	Т	Р	Creans	Semester
1	HSMC-D101 Communication Skills in English		2	0	0	2	Ι
2	HSMC-D102	Communication Skills in English Lab	0	0	2	1	Ι
3	HSMC-D103	Technical English	2	0	0	2	Π
4	HSMC-D104	French Through Communicative Approach-I	2	0	0	2	III
5	HSMC-D105	French Through Communicative Approach-II	2	0	0	2	IV
6	HSMC-D106	Entrepreneurship & Startups	3	1	0	4	VI
				Total (	Credits:	13	

	BASIC SCIENCE COURSES								
SI. No.	Course Code	Course Title	Hours Per Week						Preferred Semester
1	BSC-D101	Applied Physics-I	2	1	0	3	Ι		
2	BSC-D102	Applied Physics Lab-I	0	0	2	1	Ι		
3	BSC-D103	Applied Physics-II	2	1	0	3	П		
4	BSC-D104	Applied Physics Lab-II	0	0	2	1	П		
5	BSC-D105	Applied Chemistry	2	1	0	3	П		
6	BSC-D106	Applied Chemistry Lab	0	0	2	1	Π		
7	BSC-D107	Mathematics-I	2	1	0	3	Ι		
8	BSC-D108	Mathematics-II	3	1	0	4	Π		
			Tota	al Creo	lits:	19			

	ENGINEERING SCIENCE COURSES								
<b>C</b> 1			Н	ours per	week				
SI. No.	Course Code	Course Title	L	Т	Р	Credits	Preferred Semester		
1	ESC-D101	Introduction to IT Systems	2	1	0	3	Ι		
2	ESC-D102	Introduction to IT Systems Lab	0	0	2	1	Ι		
3	ESC-D103	Engineering Workshop Practice	0	0	3	1.5	Ι		
4	ESC-D104	Fundamentals of Electrical & Electronics Engineering	2	1	0	3	II		
5	ESC-D105	Fundamentals of Electrical & Electronics Engineering Lab	0	0	2	1	Π		
6	ESC-D106	Engineering Graphics	0	0	3	1.5	II		
7	ESC-D107	Engineering Mechanics	2	1	0	3	II		
				Tota	l Credits:	14			

		<b>Professional Core</b>	e Course	es	
SI.	Bran Course Code	ch: Electrical & Electronics E Course Title	ngineering (I Hrs. /Week	Diploma) Credits	Preferred Semester
No.		Introduction to Electric Generation	L: T: P	Creatis	Treferreu Semester
1	PCC-EEE-D201	Systems	3:00:00	3	III/IV
2	PCC-EEE-D202	Introduction to Electric Generation Systems Lab	0:00:02	1	III/IV
3	PCC-EEE-D203	Electrical Circuits	3:00:00	3	III/IV
4	PCC-EEE-D204	Electrical Circuits Lab	0:00:02	1	III/IV
5	PCC-EEE-D205	Electrical & Electronics Measurements	3:00:00	3	III/IV
6	PCC-EEE-D206	Electrical & Electronics Measurements Lab	0:00:02	1	III/IV
7	PCC-EEE-D207	Electric Motors & Transformers	3:00:00	3	III/IV
8	PCC-EEE-D208	Electric Motors & Transformers Lab	0:00:02	1	III/IV
9	PCC-EEE-D209	Wind Power Technologies 3:00:00 3		III/IV	
10	PCC-EEE-D210	Wind Power Technologies Lab	0:00:02	1	III/IV
11	PCC-EEE-D211	Fundamentals of Power Electronics	3:00:00	3	III/IV
12	PCC-EEE-D212	Fundamentals of Power Electronics Lab	0:00:02	1	III/IV
13	PCC-EEE-D213	Electric Power Transmission & Distribution	3:00:00	3	III/IV
14	PCC-EEE-D214	Electric Power Transmission & Distribution Lab	0:00:02	1	III/IV
15	PCC-EEE-D215	Induction, Synchronous & FHP Machines	3:00:00	3	III/IV
16	PCC-EEE-D216	Induction, Synchronous & FHP Machines Lab	0:00:02	1	III/IV
			Total Credits:	32	
		<b>Professional Core</b>	e Course	es	
	Branch:	Electronics & Communicatio	n Engineerin	g (Diplon	na)
SI. No.	Course Code	Course Title	Hrs. /Week L: T: P	Credits	Preferred Semester
1	PCC-EEE-D301	Microcontroller Applications	3:00:00	3	V/VI
2	PCC-EEE-D302	Microcontroller Applications Lab	0:00:02	1	V/VI
3	PCC-EEE-D303	Energy Conservation & Audit	3:00:00	3	V/VI

Energy Conservation & Audit Lab

Building Electrification

Building Electrification Lab

0:00:02

3:00:00

0:00:02

**Total Credits:** 

1

3

1

12

V/VI

V/VI

V/VI

PCC-EEE-D304 PCC-EEE-D305

PCC-EEE-D306

3 4

5

6

		<b>Professional Electiv</b>	e Cou	rses	
		Branch: Electrical & Electronics En	gineering	(Diploma	)
SI. No.	Course Code	Course Title	Hrs./ Week L: T: P	Credits	Preferred Semester
1	PEC-EEE-D201	Electronic Devices & Circuits	3:00:00	3	III/IV
2	PEC-EEE-D202	Electronic Devices & Circuits Lab	0:00:02	1	III/IV
3	PEC-EEE-D203	Digital Techniques	3:00:00	3	III/IV
4	PEC-EEE-D204	Digital Techniques Lab	0:00:02	1	III/IV
5	PEC-EEE-D205	Industrial Instrumentation & Condition Monitoring	3:00:00	3	III/IV
6	PEC-EEE-D206	Industrial Instrumentation & Condition Monitoring Lab	0:00:02	1	III/IV
7	PEC-EEE-D207	Industrial Drives	3:00:00	3	III/IV
8	PEC-EEE-D208	Industrial Drives Lab	0:00:02	1	III/IV
9	PEC-EEE-D209	Communication Technologies	3:00:00	3	III/IV
10	PEC-EEE-D210	Communication Technologies Lab	0:00:02	1	III/IV
11	PEC-EEE-D211	Electrical Testing & Commissioning	3:00:00	3	III/IV
12	PEC-EEE-D212	Electrical Testing & Commissioning Lab	0:00:02	1	III/IV
	Bra	<b>Professional Electiv</b> unch: Electronics & Communication			ma)
SI. No.	Course Code	Course Title	Hrs./ Week L: T: P	Credits	Preferred Semester
1	PEC-EEE-D301	Electrical Estimation & Contracting	3:00:00	3	V/VI
2	PEC-EEE-D302	Electrical Estimation & Contracting Lab	0:00:02	1	V/VI
3	PEC-EEE-D303	Illumination Practices	3:00:00	3	V/VI
4	PEC-EEE-D304	Illumination Practices Lab	0:00:02	1	V/VI
5	PEC-EEE-D305	Switchgear & Protection	3:00:00	3	V/VI
6	PEC-EEE-D306	Switchgear & Protection Lab	0:00:02	1	V/VI
7	PEC-EEE-D307	Solar Power Technologies	3:00:00	3	V/VI
8	PEC-EEE-D308	Solar Power Technologies Lab	0:00:02	1	V/VI
9	PEC-EEE-D309	Control System	3:00:00	3	V/VI
10	PEC-EEE-D310	Control System Lab	0:00:02	1	V/VI
11	PEC-EEE-D311	Biomass & Micro-hydro Power Plants	3:00:00	3	V/VI
12	PEC-EEE-D312	Biomass & Micro-hydro Power Plants Lab	0:00:02	1	V/VI
13	PEC-EEE-D313	Electric Vehicles	3:00:00	3	V/VI
14	PEC-EEE-D314	Electric Vehicles Lab	0:00:02	1	V/VI
15	PEC-EEE-D315	Electric Traction	3:00:00	3	V/VI
16	PEC-EEE-D316	Electric Traction Lab	0:00:02	1	V/VI
17	PEC-EEE-D317	Renewable Energy Technologies	3:00:00	3	V/VI
18	PEC-EEE-D318	Internet of Things	0:00:02	1	V/VI
19	PEC-EEE-D319	Robotics	3:00:00	3	V/VI
20	PEC-EEE-D320	Mechatronics	3:00:00	3	V/VI
21	PEC-EEE-D321	Artificial Intelligence	3:00:00	3	V/VI
22	PEC-EEE-D322	Product Design	3:00:00	3	V/VI

<b>Open Elective Courses</b> Branch: Electrical & Electronics Engineering (Diploma)								
Sl. No.	Course Code	Hrs./ Week L: T: P	Credits					
1	OEC-ECE-D203	Linear Integrated Circuits	2:01:00	3				
2	OEC-ECE-D204	Linear Integrated Circuits Lab	0:00:02	1				
3	OEC-ECE-D201	Electronic Equipment Maintenance	2:01:00	3				
4	OEC-ECE-D301	Industrial Automation	2:01:00	3				
5	OEC-ECE-D302	Industrial Automation Lab	0:00:02	1				

	<b>Project Work</b>							
		Branch: Electrical & Electronics E	ngineering	(Diploma)				
Sl. No.	Course Code	Course Title	Hrs. /Week L: T: P	Credits	Preferred Semester			
1	EEE-DP1	Project Stage-I (Mini Project)	0:00:04	2	IV			
2	EEE-DP2	Project Stage-II (Major Project)	0:00:04	2	V			
3	EEE-DP3	Project Stage-III (Major Project Work & Dissertation)	0:00:08	4	VI			
	Total Credit: 8							

	<b>Extra Co-Curricular Activities</b>							
SI.	Course Code	Course Title	E	lours per we	eek	Credits	Preferred	
No.			L	Т	Р		Semester	
1	ECCA-D101	Sports & Yoga-I	0	0	2	1	Ι	
2	ECCA-D102	Sports & Yoga-II	0	0	2	1	II	
			•	То	otal Credits:	2		

	Summer Internship Branch: Electrical & Electronics Engineering (Diploma)										
SI. No.	Course Code	Course Title	Hrs. /Week L: T: P	Credits	Preferred Semester						
1	EEE-DSI-I	Summer Internship-I	0:00:00	2	Summer Internship- (4 weeks after II Sem)						
2	EEE-DSI-II	Summer Internship-II	0:00:00	3	Summer Internship- (6 weeks after IV Sem)						
			<b>Total Credit:</b>	Total Credit: 5							

	Mandatory Courses												
SI.	Course Code	Course Title		Hours per week		Credits	Preferred						
No.			L	Т	Р		Semester						
1	MC-D101	Induction Programme	0	0	0	0	Ι						
2	MC-D102	Environmental Science	2	0	0	2	III						
3	MC-D103	Values & Ethics	2	2 0 0		0	III						
4	MC-D104	PDP-I	2	0	0	0	Ι						
5	MC-D105	PDP-II	2	0	0	0	П						
6	MC-D106	PDP-III	2	0	0	0	III						
7	MC-D107	PDP-IV	2	0	0	0	IV						
8	MC-D108	PDP-V	2	0	0	0	V						
9	MC-D109	PDP-VI	2	0	0	0	VI						
				Tot	al Credits:	2							

	COURSE STRUCTURE semester-i (first year)											
Branch: Electrical & Electronics Engineering (Diploma)												
SI.	Category	ory Course Course Title Hours Credit				Credit		Marks				
No.	Category	Code	Course The	L	Т	Р	crean	IA	ESE	Total		
			7	Theory								
1	Basic Science Course	BSC-D101	Applied Physics-I	2	1	0	3	30	70	100		
2	Basic Science Course	BSC-D107	Mathematics-I	2	1	0	3	30	70	100		
3	Humanities and Social Sciences including HSMC- Communic		Communication Skills in English	2	0	0	2	30	70	100		
4	Engineering Science Course	ESC-D101	Introduction to IT Systems	2	1	0	3	30	70	100		
	Total(A) 11 120 280 400											
			Practical/	Drawing	g/Desigi	n						
1	Basic Science Course	BSC-D102	Applied Physics Lab-I	0	0	2	1	30	20	50		
2	Engineering Science Course	ESC-D102	Introduction to IT Systems Lab	0	0	2	1	30	20	50		
3	Humanities and Social Sciences including Management Course	HSMC- D102	Communication Skills in English Lab	0	0	2	1	30	20	50		
4	Engineering Science Course	ESC-D103	Engineering Workshop Practice	0	0	3	1.5	30	20	50		
						otal(B)		120	80	200		
ļ		Mandat	ory Courses/Extra	Co-Cur	ricular	Activiti	ies Cour	ses	1			
1	Mandatory Course	MC-D101	Induction Programme	0	0	0	0	0	0	0		
2	Mandatory Course	MC-D102	Environmental Science	2	0	0	2	30	70	100		
3	Extra Co- Curricular Activities Course	ECCA- D101	Sports & Yoga-I	0	0	2	1	30	20	50		
4	Mandatory Course	MC-D104	PDP-I	2	0	0	0	0	0	0		
					Т	otal(C)	3	60	90	150		
		Grand	Total (A+B+C)				18.5	300	450	750		
	cture, T-Tutoria nternal Assessme		al 1d Semester Examin	ation								

٦

Г

	COURSE STRUCTURE											
SEMESTER-II (FIRST YEAR) Branch: Electrical & Electronics Engineering (Diploma)												
SI.	Category	Course	Course Title		Hours		Credit		Marks			
No.		Code	Theorem	L	Т	Р		IA	ESE	Total		
1	Basic Science Course	BSC-D105	Theory Applied Chemistry	2	1	0	3	30	70	100		
2	Basic Science Course	BSC-D108	Mathematics-II	3	1	0	4	30	70	100		
3	Humanities and Social Sciences including Management Course	HSMC- D103	Technical English	2	0	0	2	30	70	100		
4	Basic Science Course	BSC-D103	Applied Physics-II	2	1	0	3	30	70	100		
5	Engineering Science Course	ESC-D107	8 8	2	1	0	3	30	70	100		
6	Engineering Science Course	ESC-D104	Fundamentals of Electrical & Electronics Engineering	2	1	0	3	30	70	100		
					Т	otal(A)	18	180	420	600		
		1	Practical/Drawing	/Design	1							
1	Basic Science Course	BSC-D106	Applied Chemistry Lab	0	0	2	1	30	20	50		
2	Basic Science Course	BSC-D104	Applied Physics Lab-II	0	0	2	1	30	20	50		
			Fundamentals of Electrical &						20	50		
3	Engineering Science Course	ESC-D105	Electronics Engineering Lab	0	0	2	1	30	20	50		
3		ESC-D105 ESC-D106	Electronics	0	0	2	1	30 30	20	50		
	Course Engineering Science Course	ESC-D106	Electronics Engineering Lab Engineering Graphics	0	0 T	3 otal(B)	1.5 <b>4.5</b>		-			
	Course Engineering Science Course	ESC-D106 Mandatory	Electronics Engineering Lab	0	0 T	3 otal(B)	1.5 <b>4.5</b>	30	20	50		
	Course Engineering Science Course Extra Co-Curricular Activities Course	ESC-D106 Mandatory ECCA- D102	Electronics Engineering Lab Engineering Graphics Courses/Extra Co-Curr Sports & Yoga-II	0	0 T	3 otal(B)	1.5 <b>4.5</b>	30	20	50		
4	Course Engineering Science Course Extra Co-Curricular	ESC-D106 Mandatory ECCA-	Electronics Engineering Lab Engineering Graphics Courses/Extra Co-Curr	0 icular A	0 Tetiviti	3 otal(B) es Cour	1.5 4.5 ses 1 0	30 120 30 0	20 80 20 0	50 200 50 0		
<b>4</b>	Course Engineering Science Course Extra Co-Curricular Activities Course	ESC-D106 Mandatory ECCA- D102	Electronics Engineering Lab Engineering Graphics Courses/Extra Co-Curr Sports & Yoga-II	0 icular A 0	0 Textivitie	3 otal(B) es Cour 2	1.5 4.5 1 0 1	30 120 30 0 <b>30</b>	20 80 20 0 20	50 200 50 0 50		
<b>4</b> 1 2	Course Engineering Science Course Extra Co-Curricular Activities Course	ESC-D106 Mandatory ECCA- D102 MC-D105 Grand	Electronics Engineering Lab Engineering Graphics Courses/Extra Co-Curr Sports & Yoga-II	0 icular A 0	0 Textivitie	3 otal(B) es Cour 2 0	1.5 4.5 ses 1 0	30 120 30 0	20 80 20 0	50 200 50 0		

	B	SF	RSE STR MESTER-III (21 cal & Electronics	nd YE.	AR)								
SI. No.	Category	Course Code	Course Title	Hours L T P		Hours		IA	Marks IA ESE Total				
	Theory												
1	Professional Core Course	PCC-EEE-D201	Introduction to Electric Generation Systems	3	0	0	3	30	70	100			
2	Professional Core Course	PCC-EEE-D203	Electrical Circuits	3	0	0	3	30	70	100			
3	Professional Core Course	PCC-EEE-D205	Electrical & Electronics Measurements	3	0	0	3	30	70	100			
4	Professional Core Course	PCC-EEE-D207	Electric Motors & Transformers	3	0	0	3	30	70	100			
5	Professional Elective Course	PEC-EEE-D201	Electronic Devices & Circuits	3	0	0	3	30	70	100			
6	Humanities and Social Sciences including Management Course	HSMC-D104	French Through Communicative Approach-I	2	0	0	2	30	70	100			
		tal(A)	17	180	420	600							
		1	Practical/Drawing	/Design		1			1				
1	Professional Core Course	PCC-EEE-D202	Introduction to Electric Generation Systems Lab	0	0	2	1	30	20	50			
2	Professional Core Course	PCC-EEE-D204	Electrical Circuits Lab	0	0	2	1	30	20	50			
3	Professional Core Course	PCC-EEE-D206	Electrical & Electronics Measurements Lab	0	0	2	1	30	20	50			
4	Professional Core Course	PCC-EEE-D208	Electric Motors & Transformers Lab	0	0	2	1	30	20	50			
5	Professional Elective Course	PEC-EEE-D202	Electronic Devices & Circuits Lab	0	0	2	1	30	20	50			
6	Summer Internship	EEE-DSI-I	Summer Internship- I	0	0	0	2	75	25	100			
		Mandataria		:		otal(B)	7	225	125	350			
1	Mandatory Course	Mandatory Col MC-D106	a <b>rses/Extra Co-Curr</b> PDP-III	1cular A		o o cou	rses 0	0	0	0			
	Course	I			To	tal(C)	0	0	0	0			
			tal (A+B+C)			. /	24	405	545	950			
	A- Internal Assessment, ESE-End Semester Examination												

			RSE STRU SEMESTER-IV (2nd			R	E				
Branch: Electrical & Electronics Engineering (Diploma)											
Sl. No.	Category	Course Code	<b>Course Title</b>		Hours	1	Credit		Mark		
			<b>T</b> L	L	Т	Р		IA	ESE	Total	
			Theory								
1	Professional Core Course	PCC-EEE- D211	Fundamentals of Power Electronics	3	0	0	3	30	70	100	
2	Professional Core Course	PCC-EEE- D213	Electric Power Transmission & Distribution	3	0	0	3	30	70	100	
3	Professional Core Course	PCC-EEE- D215	Induction, Synchronous & FHP Machines	3	0	0	3	30	70	100	
4	Professional Core Course	PCC-EEE- D209	Wind Power Technologies	3	0	0	3	30	70	100	
5	Professional Elective Course	PEC-EEE- D203	Digital Techniques	3	0	0	3	30	70	100	
6	Humanities and Social Sciences including Management Course	HSMC-D105	French Through Communicative Approach-II	2	0	0	2	30	70	100	
					Tot	al(A)	17	180	420	600	
			Practical/Drawing/Des	ign							
1	Professional Core Course	PCC-EEE- D212	Fundamentals of Power Electronics Lab	0	0	2	1	30	20	50	
2	Professional Core Course	PCC-EEE- D214	Electric Power Transmission & Distribution Lab	0	0	2	1	30	20	50	
3	Professional Core Course	PCC-EEE- D210	Wind Power Technologies Lab	0	0	2	1	30	20	50	
4	Professional Core Course	PCC-EEE- D216	Induction, Synchronous & FHP Machines Lab	0	0	2	1	30	20	50	
5	Professional Elective Course	PEC-EEE- D204	Digital Techniques Lab	0	0	2	1	30	20	50	
6	Project Work	EDE-DP-I	Project Stage-I (Mini Project)	0	0	4	2	75	25	100	
						al(B)	7	225	125	350	
		Mandatory C	ourses/Extra Co-Curricu	lar Ac	tivities	Cou	rses				
1	Mandatory Course	MC-D103	Values & Ethics	2	0	0	0	0	0	0	
2	Mandatory Course	MC-D107	PDP-IV	2	0	0	0	0	0	0	
		Constant T	a + a + (A + B + C)		Tota	u(C)	0	0	0	0	
	ure, T-Tutorial, P ernal Assessment	-Practical	otal (A+B+C) nester Examination				24	405	545	950	

		COUR	SE STRU	JC	T	Uł	RE			
	В	Branch: Elec	SEMESTER-V (3) trical & Electronics				g (Diplo	oma)		
Sl.	Category	Course Code	<b>Course Title</b>		Hour	-	Credit	<b>T</b> .		arks
No.			Theory	L	Т	Р		IA	ESE	Total
1	Professional Core Course	PCC-EEE- D301	Microcontroller Applications	3	0	0	3	30	70	100
2	Professional Core Course	PCC-EEE- D303	Energy Conservation & Audit	3	0	0	3	30	70	100
3	Open Elective Course	OEC-ECE- D203	Linear Integrated Circuits	3	0	0	3	30	70	100
4	Professional Elective Course	PEC-EEE- D307	Solar Power Technologies	3	0	0	3	30	70	100
5	Open Elective Course	OEC-ECE- D201	Electronic Equipment Maintenance	3	0	0	3	30	70	100
					To	tal(A)	15	150	350	500
			Practical/Drawing	/Desi	gn					
1	Professional Core Course	PCC-EEE- D302	Microcontroller Applications Lab	0	0	2	1	30	20	50
2	Professional Core Course	PCC-EEE- D304	Energy Conservation & Audit Lab	0	0	2	1	30	20	50
3	Open Elective Course	OEC-ECE- D204	Linear Integrated Circuits Lab	0	0	2	1	30	20	50
4	Professional Elective Course	PEC-EEE- D308	Solar Power Technologies Lab	0	0	2	1	30	20	50
5	Summer Internship	EEE-DSI-II	Summer Internship-II	0	0	0	3	75	25	100
6	Project Work	EEE-DP2	Project Stage-II (Major Project)	0	0	4	2	75	25	100
					То	tal(B)	9	270	130	400
		Mandatory	Courses/Extra Co-Cur	ricul	ar Ao	ctiviti	es Cours	es		
1	Mandatory Course	MC-D103	Values & Ethics	2	0	0	0	0	0	0
2	Mandatory Course	MC-D108	PDP-IV	2	0	0	0	0	0	0
		0.15			Tot	al(C)		0	0	0
L-Leo	cture, T-Tutoria		tal (A+B+C)				24	420	480	900
	-	-	Semester Examination							

	COURSE STRUCTURE												
	SEMESTER-VI (3rd YEAR)												
	Branch: Electrical & Electronics Engineering (Diploma)												
SI.	Category	Course	<b>Course Title</b>		Hours		Credit		Mar	ks			
No.		Code		L	Т	Р		IA	ESE	Total			
	Theory Professional Cara DCC EEE												
1	Professional Core Course	PCC-EEE- D305	Building Electrification	3	0	0	3	30	70	100			
2	Professional Elective Course	PEC-EEE- D317	Renewable Energy Technologies	3	0	0	3	30	70	100			
3	Open Elective Course	OEC-ECE- D301	Industrial Automation	3	0	0	3	30	70	100			
4	Humanities and Social Sciences including Management Course	HSMC- D106	Entrepreneurship & Startups	3	1	0	4	30	70	100			
					Tot	al(A)	13	120	280	400			
			Practical/Drawing/De	sign									
1	Professional Core Course	PCC-EEE- D306	Building Electrification Lab	0	0	2	1	30	20	50			
2	Open Elective Course	OEC-ECE- D302	Industrial Automation Lab	0	0	2	1	30	20	50			
3	Project Work	EEE-DP3	Project Stage-III (Major Project Work & Dissertation)	0	0	8	4	75	25	100			
						al(B)	6	135	65	200			
			ourses/Extra Co-Curricu	ılar .	Activ	ities	Courses	5					
1	Mandatory Course	MC-D103	Values & Ethics	2	0	0	0	0	0	0			
2	Mandatory Course	MC-D109	PDP-IV	2	0	0	0	0	0	0			
					Tota	l(C)	0	0	0	0			
		Grand Tota	al (A+B+C)				19	255	345	600			
	L-Lecture, T-Tutorial, P-Practical												
IA- Iı	A- Internal Assessment, ESE-End Semester Examination												