

West Bengal State Council of Technical &
Vocational Education and Skill
Development
(Technical Education Division)



Curriculum Structure
of

Diploma in Electrical & Electronics
Engineering [EEE]

Part-II (3rd & 4th Semester) and Part-III (5th
& 6th Semester)

Revised 2022

Curriculum structure for 3rd, 4th, 5th and 6th semester students of EEE Diploma

**** Please note that**

Green- Indicates Subjects Common with EE

Orange- Indicates Subjects Exclusively for EEE

Red- Indicates Subjects Common with other Dept. Such as ETCE

3rdSemester

Sl.No	Category of course	Code No	Course Title	Credits	Marks	Total Contact Hours per Week	
						L	P
1	Program Core Course	EEPC201	Introduction to Electric Generation Systems	3	100	3	0
2	Program Core Course	EEPC203	Introduction to Electric Generation Systems Laboratory	1	100	0	2
3	Program Core Course	EEPC205	Electrical Circuits	3	100	3	0
4	Program Core Course	EEPC207	Electrical Circuits Laboratory	1	100	0	2
5	Program Core Course	EEPC209	Electrical and Electronic Measurement	3	100	3	0
6	Program Core Course	EEPC211	Electrical and Electronic Measurement Laboratory	1	100	0	2
7	Program Core Course	EEPC213	DC Machines and Transformers	3	100	3	0
8	Program Core Course	EEPC215	DC Machines and Transformers Laboratory	1	100	0	2
9	Program Core Course	EEPC217	Analog and Digital Electronics	3	100	3	0
10	Program Core Course	EEPC219	Analog and Digital Electronics Laboratory	1	100	0	2
11	Internship	EEESI201	Internship-I	1	100	0	
TOTAL				21	1100	15	10
Total contact hrs/ week =25							

4thSemester

Sl.No	Category of course	Code No	Course Title	Credits	Marks	Contact Hours per Week	
						L	P
1	Program Core Course	EEPC202	Power Electronics Converters and Application	3	100	3	0
2	Program Core Course	EEPC204	Power Electronics Converters and Application Laboratory	1	100	0	2
3	Program Core Course	EEPC 206	Electric Power Transmission and Distribution	3	100	3	0
4	Program Core Course	EEPC208	Electric Power Transmission and Distribution Laboratory	1	100	0	2
5	Program Core Course	EEPC210	Induction, Synchronous and Special Electrical Machines	3	100	3	0
6	Program Core Course	EEPC212	Induction, Synchronous and Special Electrical Machines Laboratory	1	100	0	2
7	Program Core Course	EEPC214	Consumer Electronics	3	100	3	0
8	Program Core Course	EEPC216	Consumer Electronics Laboratory	1	100	0	2
9	Program Elective course I(Compulsory)	EEPE202	Switchgear and protection	3	100	3	0
10	Program Elective course I Lab (Compulsory)	EEPE204	Switchgear and Protection Laboratory	1	100	0	2
11	Minor Project	EEPR202		1	100	0	2
TOTAL				21	1100	15	12
Total contact hrs/ week =27							

5thSemester

Sl.No	Category of course	Code No	Course Title	Credits	Marks	Total Contact Hours per Week	
						L	P
1	Program Core Course	EEPC301	Microcontroller and its Applications	3	100	3	0
2	Program Core Course	EEPC303	Microcontroller and its Applications Laboratory	1	100	0	2
3	Program Core Course	EEPC305	Principles of Electronic Communication	3	100	3	0
4	Program Core Course	EEPC307	Principles of Electronic Communication Laboratory	1	100	0	2
5	Program Elective course II	EEPE301	<u>Any one of the following subjects to be chosen</u> 1. Industrial Drives 2. Industrial Automation & Control 3. Electric Vehicles	3	100	3	0
6	Program Elective course II lab	EEPE303	<u>Any one of the following laboratories to be chosen</u> 1. Industrial Drives Laboratory 2. Industrial Automation & Control Laboratory 3. Electric Vehicles Laboratory	1	100	0	2
7	Program Elective course III	EEPE305	<u>Any one of the following subjects to be chosen</u> 1. Green & Renewable Energy Systems 2. Electric Traction 3. Illumination Practices	3	100	3	0
8	Program Elective course III Lab	EEPE307	<u>Any one of the following laboratories to be chosen</u> 1. Green & Renewable Energy Systems Laboratory 2. Electric Traction Laboratory 3. Illumination Practices Laboratory	1	100	0	2
9	Internship	EEESI301	Internship II	1	100	0	
10	Major Project	EEPR 301		2	100	0	4
TOTAL				19	1000	12	12
Total contact hrs/ week = 24							

6th Semester

Sl.No	Category of course	Code No	Course Title	Credits	Marks	Total Contact Hours per Week	
						L	P
1	Program Core Course	EEPC302	Energy conservation and Audit	3	100	3	0
2	Program Core Course	EEPC304	Energy conservation and Audit Laboratory	1	100	0	2
3	Program Elective course IV	EEEPE302	<u>Any one of the following subjects to be chosen</u> 1. Industrial Instrumentation & Condition Monitoring 2. Maintenance of Electronic Equipments 3. Data Communication & Computer Networking	3	100	3	0
4	Program Elective course IV Lab	EEEPE304	<u>Any one of the following subjects to be chosen</u> 1. Industrial Instrumentation & Condition Monitoring Lab 2. Maintenance of Electronic Equipments Laboratory 3. Data Communication & Computer Networking Laboratory	1	100	0	2
5	Humanities and Social Science	HS302	Entrepreneurship and Start-ups	4	100	4	0
6	Open Elective course-I (compulsory)	OE302	Engineering Economics and Project Management	3	100	3	0
7	Open Elective course- II	OE304	<u>Any one of the following subjects to be chosen.</u> i. Mechatronics ii. Disaster management iii. Internet of Things iv. Environmental Engineering and Science v. Industrial Management vi. Sustainable development vii. Industrial Safety Engineering viii. Introduction to E-Governance ix. Professional Orientation x. Medical Electronics	3	100	3	0
8	Major Project	PR302		2	100	0	4
9	Seminar	SE302		1	100	1	0
TOTAL				21	900	17	8
Total contact hrs/ week =25							

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Members of EEE syllabus subcommittee:

1. Dr. Arnab Ghosh (9433379717 / ghosha@nitrkl.ac.in)
2. Mr. Moumit Maji (9635592469 / moumitmaji228@gmail.com)
3. Mr. Pratik Biswas (9775882520 / pratik.biswas@dvc.gov.in)
4. Mr. Saurav Mondal (8013128395 / sauravmondal@wbscte.ac.in)
5. Dr. Saptarshi Roy (9831691293 / saptarshi.roy.ju@gmail.com)
6. Mr. Samit Chakraborty (9749170066 / samit.chakraborty@gmail.com)