

**Maulana Abul Kalam Azad University of Technology, West Bengal**  
*(Formerly West Bengal University of Technology)*  
**Syllabus for B. Tech in Electrical & Electronics Engineering (EEE)**  
 (Applicable from the academic session 2018-2019)

**Curriculum Structure**  
**3<sup>rd</sup> Semester**

**Theory:**

Sl. No.	CODE	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
1	PC-EEE-301	Electric Circuit Theory	3	1	0	4	4
2	PC-EEE-302	Analog Electronics	3	0	0	3	3
3	PC-EEE-303	Electromagnetic field theory	3	0	0	3	3
4	ES-ME-301	Engineering Mechanics	3	0	0	3	3
5	BS-M-301	Mathematics-III	3	0	0	3	3
6	BS-EEE-301	Biology for Engineers	3	0	0	3	3
7	MC-EEE-301	Indian Constitution	3	0	0	3	0
		<b>TOTAL OF SEMESTER:</b>				22	19

**Practical / Sessional:**

Sl. No.	CODE	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
1	PC-EEE-391	Electric Circuit Theory Laboratory	0	0	2	2	1
2	PC-EEE-392	Analog Electronics laboratory	0	0	2	2	1
3	PC-CS-391	Numerical Methods laboratory	0	0	2	2	1
		Total of Practical / Sessional				06	3
<b>TOTAL OF SEMESTER:</b>						28	22

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**4<sup>th</sup>Semester**

**Theory:**

Sl. No.	CODE	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
1	PC-EEE-401	Electric machine-I	3	0	0	3	3
2	PC-EEE-402	Digital Electronics	3	0	0	3	3
3	PC-EEE-403	Electrical and Electronic Measurement	3	0	0	3	3
4	ES-EEE-401	Thermal Power Engineering	3	0	0	3	3
5	HM-EEE-401	Values and Ethics in profession	3	0	0	3	3
6	MC- EEE-401	Environmental Science	3	0	0	3	0
		TOTAL OF SEMESTER:				18	15

**Practical / Sessional:**

Sl. No.	CODE	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
1	PC-EEE-491	Electric Machine-I laboratory	0	0	2	2	1
2	PC-EEE-492	Digital Electronics laboratory	0	0	2	2	1
3	PC-EEE-493	Electrical and Electronic measurement laboratory	0	0	2	2	1
4	ES-ME-491	Thermal Power Engineering laboratory	0		2	2	1
		Total of Practical / Sessional				08	4
TOTAL OF SEMESTER:						26	19

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**5<sup>th</sup> Semester****Theory:**

Sl. No.	CODE	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
1	PC-EEE-501	Electric machine-II	3	0	0	3	3
2	PC-EEE-502	Power System-I	3	0	0	3	3
3	PC-EEE-503	Control system	3	0	0	3	3
4	PC-EEE-504	Power Electronics	3	0	0	3	3
5	PE-EEE-501A/B/C	High Voltage Engineering/Power Plant Engineering/Renewable & Non Conventional Energy	3	0	0	3	3
6	OE-EEE-501A/B/C	Data Structure & Algorithm/Object Oriented Programming/Computer Organization	3	0	0	3	3
		TOTAL OF SEMESTER:				18	18

**Practical / Sessional:**

Sl. No.	CODE	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
1	PC-EEE-591	Electric Machine-II laboratory	0	0	2	2	1
2	PC-EEE-592	Control system laboratory	0	0	2	2	1
3	PC-EEE-593	Power Electronics laboratory	0	0	2	2	1
		Total of Practical / Sessional				06	3
TOTAL OF SEMESTER:						24	21

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**6<sup>th</sup> Semester**

**Theory:**

Sl. No.	CODE	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
1	PC-EEE-601	Power System-II	3		0	3	3
2	PC-EEE-602	Microprocessor & Micro controller	3	0	0	3	3
3	PE-EEE-601	A. Nano Electronics B. Electrical Machine Design C. VLSI & Microelectronics	3	0	0	3	3
4	PE-EEE-602	A. Electrical & Hybrid vehicle B. Power Quality & FACTS C. Industrial Electrical Systems	3	0	0	3	3
5	OE-EEE-601	A. Artificial Intelligence B. Database Management Systems C. Analytical Instrumentation	3	0	0	3	3
6	HM-EEE-601	Economics for Engineers	3	0	0	3	3
		<b>TOTAL OF SEMESTER:</b>				18	18

**Practical / Sessional:**

Sl. No.	CODE	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
1	PC-EEE-691	Power system laboratory	0	0	2	2	1
2	PC-EEE-692	Microprocessor & Microcontroller laboratory	0	0	2	2	1
3	PC-EEE-681	Electrical & Electronic design laboratory	1	0	4	5	3
		Total of Practical / Sessional				09	05
<b>TOTAL OF SEMESTER:</b>						27	23

Summer Internship of 3-week duration after 6 <sup>th</sup> semester. Students will be assessed based on submission of report on internship and presentation in a seminar in 7 <sup>th</sup> semester
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**7<sup>th</sup> Semester**

**Theory:**

Sl. No.	CODE	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
1	PC-EEE-701	Analog and digital communication	3	0	0	3	3
2	PE-EEE-701	A. Electric Drive B. Digital Control system C. HVDC transmission System	3	0	0	3	3
3	OE- EEE-701	A. Embedded system B. Computer network C. Introduction to Machine learning	3	0	0	3	3
4	OE- EEE-702	A. Internet of Things B. Computer Graphics C. Soft computing Techniques	3		0	3	3
5	HM- EEE-701	Principle of Management	3	0	0	3	3
<b>TOTAL OF SEMESTER:</b>						15	15

**Practical / Sessional:**

Sl. No.	CODE	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
1	PC-EEE 791	Analog and digital Communication laboratory	0	0	2	2	1
2	PW-EEE 781	Project stage-I	0	0	4	4	2
3	PW-EEE782	Seminar	0	0	0	0	1
		Total of Practical / Sessional				06	04
<b>TOTAL OF SEMESTER:</b>						21	19

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**8<sup>th</sup> Semester****Theory:**

Sl. No.	CODE	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
1	PC-EEE-801	Digital signal processing	3	0	0	3	3
2	PE- EEE-801	A. Utilization of Electric Power B. Advanced Electric Drives C. Power system dynamics and control D. Industrial Automation and Control	3	0	0	3	3
3	OE- EEE-801	A. Digital Image Processing B. Biomedical Instrumentation C. Cryptography and Network Security D. Sensors and Transducers	3	0	0	3	3
TOTAL OF SEMESTER:						09	09

**Practical / Sessional:**

Sl. No.	CODE	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
	PC-EEE-891	Digital signal processing laboratory	0	0	2	2	1
1	PW-EEE-881	Project stage-II	0	0	16	16	8
		Total of Practical / Sessional				18	09
TOTAL OF SEMESTER:						27	18