INSTITUTE OF ENGINEERING & MANAGEMENT, KOLKATA
UNIVERSITY OF ENGINEERING & MANAGEMENT, KOLKATA, JAIPUR

3rd SEMESTER
2023-2027 and Onwards

Sl. No.	Type	Subject Code	Subject Name	L	T	P	Total	Credit
1.	CC	PCCECE301	Basic Electronic Devices	3	0	0	3	3
2.	CC	PCCECE302	Analog Electronics	3	0	0	3	3
3.	CC	PCCECE 303	Signals and Systems	3	0	0	3	3
4.	CC	PCCECE 304	Network Theory	3	0	0	3	3
5.	BSC	BSM301	Mathematics – III	3	0	0	3	3
6.	MC	MCC301	Constitution of India	1	0	0	1	0
7.	GSC	ESP301	Essential Studies for Professionals – III	2	0	0	2	0.5
8.	CC	PCCECE391	Basic Electronic Devices Laboratory	0	0	2	2	1
9.	CC	PCCECE392	Analog Electronics Laboratory	0	0	2	2	1
10.	CC	PCCECE393	Signals and Systems Laboratory	0	0	2	2	1
11	CC	PCCECE394	Network Theory Laboratory	0	0	2	2	1
12.	OEC	OEC381	Data Structure & Algorithm (Sessional)	1	0	2	3	2
13.	OEC	OEC382	Python Lab (Sessional)	0	0	2	2	2
14.	GSC	SDP381	Skill Development for Professionals - III	0	0	2	2	0.5
15.	ECP	PRJECE381	Mini Project	-	-	-	1	1
16.	Mandatory Course	MAR 381	Mandatory Additional Requirement (MAR)	0	0	0	0	0
17.		IFC	Industry and Foreign Certification	0	0	0	0	0
							Total Credit Points =	**25**

INSTITUTE OF ENGINEERING & MANAGEMENT, KOLKATA
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4th SEMESTER

Sl. No.	Type	Subject Code	Subject Name	L	T	P	Total	Credit
1.	CC	PCCECE401	Analog & Digital Communication	3	0	0	3	3
2.	CC	PCCECE402	Digital Electronics	3	0	0	3	3
3.	CC	PCCECE403	Introduction to Artificial Intelligence and Machine Learning	3	0	0	3	3
4.	MC	MCC471	Sustainability & Environmental Science	2	0	0	2	2
5.	BSC	BSM401	Mathematics-IV	3	0	0	3	3
6.	GSC	ESP402	Essential Studies for Professionals IV	2	0	0	2	0.5
7.	CC	PCCECE491	Analog & Digital Communication Laboratory	0	0	2	2	1
8.	CC	PCCECE492	Digital Electronic Laboratory	0	0	2	2	1
9	CC	PCCECE493	Artificial Intelligence and Machine Learning Laboratory	0	0	2	2	1
10.	Sessional	OEC481	Object Oriented Programming using JAVA	1	0	2	3	2
11.	GSC	SDP482	Skill Development for Professionals-IV	0	0	2	2	0.5
12.	ECP	PRJECE481	Mini Project	-	-	-	1	1
13.	Mandatory Course	MAR481	Mandatory Additional Requirement (MAR)	0	0	0	0	0
14.		IFC	Industry and Foreign Certification	0	0	0	0	0
15.		MOOCS						
							Total Credit Points =	**21**

INSTITUTE OF ENGINEERING & MANAGEMENT, KOLKATA
UNIVERSITY OF ENGINEERING & MANAGEMENT, KOLKATA, JAIPUR

5th SEMESTER

Sl. No.	Type	Subject Code	Subject Name	L	T	P	Total	Credit
1.	CC	PCCECE 501	Electromagnetic Waves	3	0	0	3	3
2.	CC	PCCECE 502	Microprocessor & Microcontroller	3	0	0	3	3
3.	CC	PCCECE 503	VLSI Design	3	0	0	3	3
4.	CC	PCCECE 504	Data Base Management System	3	0	2		3
4.	ECEL	PECECE 504	**Program Elective-1** A. Information Theory & Coding B. Industrial Automation I C. Cyber Law & Intellectual Property Rights	3	0	0	3	3
5.	GSC	ESP 502	ESP V	1	0	0	1	0.5
6.	GSC	HSM 506	Economics for Engineers	2	0	0	2	1
7.	CC	PCCECE 591	Electromagnetic Waves Laboratory	0	0	2	2	1
8.	CC	PCCECE 592	Microprocessor & Microcontroller Laboratory	0	0	2	2	1
9	CC	PCCECE 593	VLSI Design Laboratory	0	0	2	2	1
10	CC	PCCECE 594	Data Base Management System Laboratory	0	0	2	2	1
11	Sessional	OEC581	Programming in Cloud (Python on AWS)	0	0	2	2	1
12	GSC	SDP 582	SDP V	0	0	1	1	0.5
13	ECP	PRJECE 581	Mini Project	-	-	-	1	1
14	Mandatory Course	MAR 581	Mandatory Additional Requirement (MAR)	0	0	0	0	0
15		IFC	Industry and Foreign Certification	0	0	0	0	0
							Total Credit Points =	**23**

INSTITUTE OF ENGINEERING & MANAGEMENT, KOLKATA
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6th SEMESTER

Sl. No.	Type	Subject Code	Subject Name	L	T	P	Total	Credit
1.	CC	PCCECE 601	Control System	3	0	0	3	3
2.	CC	PCCECE 602	Computer Network	3	0	0	3	3
3	CC	PCCECE 603	Digital Signal Processing	3	0	0	3	3
3.	ECEL	PECECE 604	**Program Elective-2** A. Nano Electronics B. Industrial Automation II C. Internet of Things D. Power Electronics	3	0	0	3	3
4.	OEC	OECECE 604	**Open Elective-1** A. Deep learning with Generative AI B. Operating Systems	3	0	0	3	3
5.	GSC	ESP 602	ESP VI	1	0	0	1	0.5
6.	GSC	HSM 605	Principles of Management	2	0	0	2	2
7.	CC	PCCECE 691	Control System Laboratory	0	0	2	2	1
8.	CC	PCCECE 692	Computer Network Laboratory	0	0	2	2	1
9	CC	PCCECE 693	Digital Signal Processing Laboratory	0	0	2	2	1
9.	Sessional	PCCECE 681	Advanced VLSI Design	0	0	2	2	1
10.	Sessional	PCCECE 682	Software Engineering with DevOps	0	0	2	2	1
11.	GSC	SDP 682	SDP VI	0	0	1	1	0.5
12.	ECP	PRJECE 681	Mini Project	-	-	-	2	1
13.	Mandatory Course	MAR 681	Mandatory Additional Requirement (MAR)	0	0	0	0	0
14		IFC	Industry and Foreign Certification	0	0	0	0	0
							Total Credit Points =	**24**

INSTITUTE OF ENGINEERING & MANAGEMENT, KOLKATA
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7th SEMESTER

Sl. No.	Type	Subject Code	Subject Name	L	T	P	Total	Credit
1.	ECEL	PECECE 701	**Program Elective-3** A. Embedded System B. Computer Architecture	3	0	0	3	3
2.	ECEL	PECECE 702	**Program Elective-4** A. Wireless Communication B. Electronic measurement and Instrumentation	3	0	0	3	3
3.	ECEL	PECECE 703	**Program Elective-5** A. Digital Image and Video Processing B. Satellite Communication	3	0	0	3	3
4.	OEC	OECECE 704	**Open Elective-2** A. Natural Language Processing B. Web technology	3	0	0	3	3
5.	GSC	ESP 702	ESP VII	1	0	0	1	0.5
6.	GSC	SDP 782	SDP VII	0	0	1	1	0.5
7.	ECP	PRJECE 781	Project Work - I	-	-	-	5	4
8.	Mandatory	Internship I	Internship					4
9.	Mandatory Course	MAR 781	Mandatory Additional Requirement (MAR)	0	0	0	0	0
10.		IFC	Industry and Foreign Certification	0	0	0	0	0
							Total Credit Points =	**21**

INSTITUTE OF ENGINEERING & MANAGEMENT, KOLKATA
UNIVERSITY OF ENGINEERING & MANAGEMENT, KOLKATA, JAIPUR

8th SEMESTER

Sl. No.	Type	Subject Code	Subject Name	L	T	P	Total	Credit
1.	ECEL	PECECE801	**Program Elective-6** A. Fiber Optic Communication B. Renewable Energy	3	0	0	3	3
2	ECEL	PECECE802	A. Antenna Systems and Design B. Sensors & Transducers	3	0	0	3	3
3.	OEC	OECECE803	**Open Elective-3** A. Industrial Management B. Industrial Internet of Things	3	0	0	3	3
4.	OEC	OECECE804	**Open Elective-4** A. Data Warehousing and Business Intelligence B. Optimization Technique	3	0	0	3	3
5.	ECEL	PECECE892	A. Sensors & Transducers Lab **B.** Antenna and Propagation Lab	0	0	2	2	1
6.	GSC	ESP 802	ESP VIII	1	0	0	1	0.5
7.	GSC	SDP 882	SDP VIII	0	0	1	1	0.5
8.	ECP	PRJECE 881	Project Work – II & Dissertation	-	-	-	4	4
9.	CC	ECE 891	GRAND VIVA	-	-	-	-	3
10.	Mandatory	Internship II	Internship					4
11.	Mandatory Course	MAR 881	Mandatory Additional Requirement (MAR)	0	0	0	0	0
12		IFC	Industry and Foreign Certification	0	0	0	0	0
							Total Credit Points =	**25**

A. B.Tech Course (Electronics & Communication Engineering)

SEMESTER	TOTAL CREDIT POINTS
3.	25
4.	19
5.	23
6.	24
7.	21
8.	25
Total	137