



DON BOSCO INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



Attainment of Course Outcomes [2019-23 Batch]

Attainment of Course Outcomes [2019-23 Batch]									
Sl. No	Code	Course Name/Course Code	CO Attainment						Average
			CO1	CO2	CO3	CO4	CO5	CO6	
1	18C101	Engineering Mathematics-I	1.9	1.7	2	1.7			1.83
2	18C102	Engineering Physics	2.2	2.8	2.8	2.7	1.9		2.48
3	18C103	Basic Electrical Engineering	2.4	2.5	2.4				2.43
4	18C104	Elements of Civil Engineering and Mechanics	2.3	2.3	2.3	2.3	2.2		2.28
5	18C105	Engineering Graphics	1.3	1.3	1.3				1.30
6	18C106	Engineering Physics Laboratory	2.5	2.5	2.5	2.5	1.8		2.36
7	18C107	Basic Electrical Engineering Laboratory	1.6	1.6	1.6	1.6			1.60
8	18C108	Technical English - I	1.4	1.6	1.3				
9	18C109	Engineering Mathematics-2	0.7	0.8	1.7	1.8	1.8		1.36
10	18C110	Engineering Chemistry	2.4	2.4	2.3	2.2	2.4		2.34
11	18C111	Programming in C and Data Structures	2.3	2.5	2.1	2.6	2.8		2.46
12	18C112	Basic Electronics	1.6	1.4	1.6	1.7	1		1.46
13	18C113	Elements of Mechanical Engineering	1.2	1.2	1.2				1.20
14	18C114	Engineering Chemistry Laboratory	2.8	2.8	3				2.87
15	18C115	Computer Programming Laboratory	2.4	2.4	2.4	2.6	2.8		6.84
16	18C116	Technical English-II	2.3	2.6	2.6				2.50
17	18C201	Engineering Mathematics-III	1.4	1.4	1.4	1.4	1.4		1.40
18	18C202	Electric Circuit Analysis	1.9	2	2.4				2.10
19	18C203	Transformers and Generators	2.1	2.4					2.25
20	18C204	Analog Electronics Circuits	2.7	2.7	2.7	2.6	2.7		2.68
21	18C205	Digital System Design	1.2	1.3	1.4				1.30
22	18C206	Electrical and Electronics Measurements	1.6	1.7	1.7	1.4			1.60
23	18C207	Electrical Machines Laboratory-1	3	3	3	3	3		3.00
24	18C208	Electronics Laboratory	3	3	3	3	3		3.00
25	18C209	Constitution of India, Professional Ethics and Human Rights	2.8	2.8	2.8				2.80
26	18C210	Engineering Mathematics-IV	1.3	1.3	1.2	1.2	1.3		1.26
27	18C211	Power Generation and Economics	2.9	2.9					2.90
28	18C212	Transmission and Distribution	2.9	2.9	2.9				2.90
29	18C213	Electric Motors	2.9	2.9	2.9	2.9			2.90
30	18C214	Electromagnetic Field Theory	3	3	3	3	3		3.00
31	18C215	Operational Amplifiers and field Theory	2.9	2.9	2.9	2.9	2.9		2.90
32	18C216	Electrical Machines Laboratory-2	3	3	3	3			3.00
33	18C217	Operational Amplifiers and Linear IC's Laboratory	3	3	3	3			3.00
34	18C301	Management and Entrepreneurship	1.9	1.8	2	2	1.8		1.90
35	18C302	Microcontroller	1	1.2	1.9				1.37
36	18C303	Power Electronics	1.8	1.7	1.6				1.70
37	18C304	Signals and Systems	0.9	1.6	1.6	1	1.4		1.30
38	18C305	Electric Machine Design	1.6	1.4	1.4				1.47
39	18C306	High Voltage Engineering	1.1	1	1	1			1.03

40	18C307	Microcontroller Laboratory	2.7	2.7	2.7	2.7	2.7		2.70
Attainment of Course Outcomes [2019-23 Batch]									
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			CO1	CO2	CO3	CO4	CO5	CO6	
41	18C308	Power Electronics Laboratory	2.9	2.9	2.9	2.9	2.9		2.90
42	18C309	Environmental Studies	1.8	1.8	1.8	1.8			1.80
43	18C310	Control Systems	1.7	0.9	0.7	1.4	1.4		1.22
44	18C311	Power system Analysis -1	2.2	2.1	2.3	2.3	2.4		2.26
45	18C312	Digital Signal Processing	0.8	1.1	1				0.97
46	18C313	CAED	2.8	2.8	2.9	3			2.88
47	18C313	Electrical Vehicle Technology	2.6	2.6	2.8				2.67
48	18C314.1	Programing in JAVA	1.5	1.6	1.5				
49	18C314.2	World Class Manufacturing	1.1	1	1.2	1.1	1		1.08
50	18C315	Control System Laboratory	2.7	2.7	2.7	2.7	2.7		2.70
51	18C316	Digital Signal Processing Laboratory	2.6	2.6	2.6	2.6	2.6		2.60
52	18C317	Mini Project	3	3	3	3	3	3	
53	18C401	Power System Analysis-2	1.6	1.8	2	2			1.85
54	18C402	Power System Protection	1.8	1.7	1.7				1.70
55	18C403	Solar and Wind Energy	1.5	1.8	1.8	1.5	1.8		1.68
56	18C404	Utilization of Electrical Power	0.6	1.3	1.1	0.7	1.2		0.98
57	18C405.2	Environmental Protection and Management	1.4	1.5	1.5	1.55	1.5		1.49
58	18C406	Power System Simulation Laboratory	2.4	2.4	2.4	2.4	2.4		2.40
59	18C407	Relay and High Voltage Laboratory	2	2	2	2			2.00
60	18C408	Project Work Phase I + Project Work Seminar	2.9	2.9	2.9	2.9			2.90
61	18C409	Power System Operation and Control	1.5	0.9	2.1				1.50
62	18C410	Power System Planning	2	2	2				2.00
63	18C411	Project Work Phase II	3	3	3	3	3	3	3.00
64	18C412	Technical Seminar	1.5	1.5	1.5	1.5			1.50
65	18C413	Internship	3	3	3	3			3.00

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DON BOSCO INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

**PO and PSO Attainment [2019-23 Batch]**

Code	Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
18C101	Engineering Mathematics-I	1.8	1.8							1.8	1.8		1.8	1.8		1.8
18C102	Engineering Physics	2.48	2.48								2.48		2.48	2.43		
18C103	Basic Electrical Engineering	2.43	2.43					2.43			2.43		2.43	2.43		2.43
18C104	Elements of Civil Engineering and Mechanics	2.02	2.02	1.99			1.8		1.8		1.8		1.6	1.59	1.59	
18C105	Engineering Graphics			1.4		1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
18C106	Engineering Physics Laboratory	2.36	2.36							2.36	2.36		2.36	2.42		
18C107	Basic Electrical Engineering Laboratory	1.6	1.6	1.6						1.6	1.6		1.6	1.6		1.6
18C108	Technical English - I	1.43									1.43		1.43			
18C109	Engineering Mathematics-2	1.36	1.36							1.36	1.36		1.36	1.36		1.36
18C110	Engineering Chemistry	2.35	2.34	2.34				2.34		2.32	2.36		2.34	2.37	2.32	2.33
18C111	Programming in C and Data Structures	2.4	2.4	2.3	2.1	1.8	2.1	2.2	2.2	2	2.1	2	2.1	2.1	2.4	2.3
18C112	Basic Electronics	1.67	1.54	1.53				1.67			1.67		1.67	1.54	1.51	
18C113	Elements of Mechanical Engineering	1.2	1.2		1.2			1.2				1.2		1.2	1.2	
18C114	Engineering Chemistry Laboratory	2.97	2.97	2.97			2.97	2.97		2.97	2.97		2.97	2.95		2.9
18C115	Computer Programming Laboratory	2.3	2.4	2.3	2.4	2.1	2.1	2.2	2.2	2.1	2.3	2.4	2.1	2.1	2.4	2.3
18C116	Technical English-II	2.5									2.5		2.5			2.6
18C201	Engineering Mathematics-III	1.3	1.3					1.3					1.3	1.3		1.3
18C202	Electric Circuit Analysis	2.1	2.1		2.4								2.1	2.09		2.1
18C203	Transformers and Generators	2	2											2	2	2
18C204	Analog Electronics Circuits	2.68	2.68	2.67	2.65					2.68	2.68		2.68	2.68	2.68	2.68
18C205	Digital System Design	1.29	1.3	1.3	1.3								1.3	1.3		1.3
18C206	Electrical and Electronics Measurements	1.59	1.6	1.65		1.65	1.65	1.65		1.65	1.67	1.67	1.67	1.6	1.65	1.67
18C207	Electrical Machines Laboratory-I	3	3	3						3	3		2.5	3	3	3
18C208	Electronics Laboratory	3	3	3						3	3		3	3		3
18C209	Constitution of India, Professional Ethics and Human Rights					2.8		2.8					2.8			2.8
18C210	Engineering Mathematics-IV	1.4	1.4							1.4	1.4		1.4	1.4		1.4
18C211	Power Generation and Economics	2.9	2.9	2.9			2.9	2.9						2.9		2.9

Code	Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
18C212	Transmission and Distribution	2.18	1.45	2.9		2.9				2.18	2.18		2.18	2.18	2.9	2.07
18C213	Electric Motors	2.9	2.9							2.9	2.9		2.9	2.9		2.9
18C214	Electromagnetic Field Theory	3	3											3		
18C215	Operational Amplifiers and field Theory	2.9	2.9	2.9	2.9	2.9						2.9	2.9	2.9	2.9	2.9
18C216	Electrical Machines Laboratory-2	2.4	2.4							2.4	2.4		2.4	2.4		2.4
18C217	Operational Amplifiers and Linear IC's Laboratory	3	3	3		3	3			3	3	3	3	3	3	
18C301	Management and Entrepreneurship		1.9					2	2	1.9	1.88	1.83	1.85			1.85
18C302	Microcontroller	1.37	1.37	1.37						1.37	1.37		1.37	1.37	1.37	1.37
18C303	Power Electronics	1.72	1.69		1.7					1.7	1.7		1.7	1.7		1.7
18C304	Signals and Systems	1.3	1.3		1.3					1.3	1.3		1.3	1.3		1.3
18C305	ELECTRICAL MACHINE DESIGN	1.47	1.48	1.44	1.48	1.47			1.4	1.48			1.47	1.49	1.48	1.45
18C306	HIGH VOLTAGE ENGINEERING	1.03	1.02	1	1					1.03	1.03		1.03	1.03		1.03
18C307	Microcontroller Laboratory	2.7	2.7	2.7		2.7				2.7	2.7		2.7	2.7	2.7	2.7
18C308	Power Electronics Laboratory	2.9	2.9							2.9			2.9	2.9		2.9
18C309	Environmental Studies							1.8					1.8			1.8
18C310	Control Systems	1.22	1.17	1.1						1.22	1.22		1.22	1.22		1.22
18C311	Power system Analysis-1	2.25	2.26		2.2					2.26	2.26		2.26	2.26	2.2	
18C312	Digital Signal Processing	0.97	0.97	1.05						0.97	0.97		0.97	0.97		0.97
18C313	CAED	2.88	2.89			2.88				2.88	2.88		2.88	2.88	2.88	
18C313	Electrical Vehicle Technology	2	2.23	1.8			1.95	2.07		1.8			2	2	1.4	2.6
18C314.1	Programming in JAVA	1.6	1.6	1.6										1.6	1.6	
18C314.2	World Class Manufacturing	1.1	1.1	1.1	1.1		1.1	1.1	1.1			1.1	1.1	1.1	1.1	1.1
18C315	Control System Laboratory	2.7	2.7	2.7		2.7				2.7	2.7		2.7	2.7	2.7	2.7
18C316	Digital Signal Processing Laboratory	2.6	2.6	2.6	2.6	2.6				2.6	2.6		2.6	2.6	2.6	2.6
18C317	Mini Project	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
18C401	Power System Analysis-2	1.85	1.85		1.85	1.85				1.85	1.85		1.85	1.85	1.85	1.6
18C402	Power System Protection	1.73	1.73	1.73									1.73	1.73		1.73
18C403	Solar and Wind Energy	1.68				1.68	1.68	1.68	1.68			1.68		1.68	1.68	1.68
18C404	Utilization of Electrical Power	0.98	0.97	1						0.98	0.98		0.98	0.98		0.98
18C405.2	Environmental Protection and Management	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55
18C406	Power System Simulation Laboratory	2.4	2.4	2.4		2.4								2.4	2.4	
18C407	Relay and High Voltage Laboratory	2	2							2	2		2	2		2

Code	Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
18C408	Project Work Phase I + Project Work Seminar	2.9	2.9	2.9	2.9	2.9			2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
18C409	Power System Operation and Control	1.5	1.58							1.5	1.5		1.5	1.5		1.5
18C410	Power System Planning	2	2							2	2		2	2		2
18C411	Project Work Phase II	3	3	3	3	3		3	3	3	3	3	3	3	3	3
18C412	Technical Seminar	3	3	3	3	3	3			3	3		3	3	3	3
18C413	Internship	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	Average Attainment (Direct)	2.11328	2.113	2.16	2.13	2.4	2.25	2.07	2.15	2.13	2.13	2.18	2.08	2.089	2.223	2.088
	Indirect Attainment	2.96	2.93	2.8	2.76	2.6	2.2	2.8	2.38	2.71	2.84	2.24	2.22	2.84	2.8	2.91
	Final (80% Direct+20% Indirect)	2.28	2.28	2.29	2.25	2.44	2.24	2.22	2.19	2.25	2.27	2.19	2.11	2.24	2.34	2.25
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
		76.1	75.9	76.2	75.1	81.4	74.7	73.9	73.1	74.9	75.8	72.9	70.3	74.6	77.9	75.1

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