



Don Bosco Institute of Technology, Bengaluru
Department of Computer Science & Engineering
CO Attainment of 2018 - 22 Batch



Achieved CO Attainment for 2018 - 2022 Batch

Attainment of Course Outcomes [2018 - 22 Batch]

Sl. No	Course Name/Course Code	CO Attainment					
		CO1	CO2	CO3	CO4	CO5	CO6
C201	18MAT31 - Transform Calculus, Fourier Series And Numerical Techniques ENGINEERING MATHEMATICS - III	2.10	2.00	2.30	2.30	2.10	
C202	18CS32 - DATA STRUCTURES AND APPLICATIONS	2.50	2.50	2.60	2.60		
C203	18CS33 - Analog and Digital Electronics	2.00	1.90	1.30	1.80	1.94	
C204	18CS34 - COMPUTER ORGANIZATION	1.60	1.70	1.90	1.80		
C205	18CS35 - Software Engineering	2.50	2.50	2.60	2.60		
C206	18CS36 - DISCRETE MATHEMATICAL STRUCTURES	1.90	1.80	1.90			
C20L7	18CSL37 - Analog and Digital Electronics Laboratory	2.50	2.60	2.40	2.6		
C20L8	18CSL38 - Data Structures Laboratory	2.40	2.50	2.60			
C211	18MAT41 - ENGINEERING MATHEMATICS - IV	2.00	2.00	2.30	2.30	2.30	
C212	18CS42 - Design and Analysis of Algorithms	2.40	2.40	2.40			
C213	18CS43 - Operating Systems	2.30	2.30	2.30	2.30		
C214	18CS44 - Microcontroller and Embedded Systems	2.40	2.70	2.70	2.70		
C215	18CS45 - Object Oriented Concepts	2.70	2.60	2.70			
C216	18CS46 - DATA COMMUNICATION	2.40	2.32	2.40	2.40		
C21L7	18CSL47 - Design and Analysis of Algorithm Laboratory	2.90	2.90	2.90	2.90		
C21L8	18CSL48 - Microcontroller and Embedded Systems Laboratory	2.80	2.80	2.50			
C301	18CS51 - MANAGEMENT AND ENTREPRENEURSHIP FOR IT INDUSTRY	2.30	2.40	2.40	2.30	2.20	
C302	18CS52 - Computer Networks and Security	1.70	1.60	1.80	2.20	2.00	
C303	18CS53 - DATABASE MANAGEMENT SYSTEM	2.40	2.40	2.40	2.40		
C304	18CS54 - Automata theory and Computability	1.70	1.60	1.80	2.20	2.00	
C305	18CS55 - Application Development using Python	2.32	2.38	2.34	2.28	2.31	
C306	18CS56 - Unix Programming	2.30	2.20	2.30	2.30	2.30	
C30L7	18CSL57 - Computer Network Laboratory	2.50	2.50	2.50			
C30L8	18CSL58 - DBMS Laboratory with mini project	2.40	2.50	2.60			
C311	18CS61 - System Software and Compilers	2.40	2.40	2.50			
C312	18CS62 - Computer Graphics and Visualization	2.80	2.80	2.80	2.70	2.70	
C313	18CS63 - WEB TECHNOLOGY AND ITS APPLICATIONS	2.30	2.20	2.30	2.30	2.30	
C314	18CS643 - Cloud Computing and Its Applications	2.50	2.40	2.40	2.40	2.40	
C315	18EE653 - Renewable Energy Resources	2.80	2.80	2.80	2.70	2.70	2.74
C31L6	18CSL66 - System Software Laboratory	2.30	2.50	2.50			

C31L7	18CSL67 - Computer Graphics Lab with Mini Project	2.30	2.30	2.30			
C31L8	18CSL68 - Mobile Application Development Laboratory	2.60	2.60	2.60	2.60	2.70	
C401	18CS71 - ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	2.50	2.40	2.40	2.50	2.50	
C402	18CS72 - Big Data Analytics	2.45	2.42	2.48	2.47	2.48	
C403	18CS734 - User interface design	2.30	1.90	2.20	2.20	2.20	
C4044	18CS745 - ROBOTIC PROCESS AUTOMATION	1.80	2.00	1.80	1.90	1.90	
C4051	18EE753 - Electrical Energy Conservation & Auditing	2.45	2.42	2.48	2.47	2.48	2.47
C4052	18ME751 - ENERGY AND ENVIRONMENT	2.51	2.53	2.54	2.58		
C40L6	18CSL76 - Artificial Intelligence and Machine Learning Lab	3.00	3.00	2.60			
C411	18CS81 - INTERNET OF THINGS TECHNOLOGY	2.20	2.00	2.10	2.00	2.20	
C412	18CS822 - Storage Area Network	1.50	1.20	1.30	1.50	1.70	
C413P	18CSP83 - Project phase 2	2.90	2.90	2.70			
C414TS	18CSS84 - Technical Seminar	2.90	2.90	2.90	2.80	2.90	
C415I	18CSI85 - Internship	3.00	1.50	3.00	1.50		

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H.O.D. 20/7/22

Dept. of Computer Science & Engg.
DON BOSCO Institute of Technology
Kumbaloddu, Bangalore - 74.



Don Bosco Institute of Technology, Bengaluru
Department of Computer Science & Engineering
Program level Course-PO matrix of all courses of 2018-22 Batch



Program level Course-PO matrix of all courses of 2018-22 Batch

COURSES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C201	3	3							3	3		3	2		
C202	2	2	2	2	2				1	1		1	1	1	1
C203	2	2	2	2	2			2	2	2		2	2	2	2
C204	2	2	2	2						2		2	2	2	2
C205	2	2	2	2	2				2	2		2	2	2	2
C206	2	2	2							2	2	2	2	2	2
C20L7	2	2	2	2	2				2	2		2	2	2	2
C20L8	2	2	2	2	2		2	2		2		2	2	2	2
C211	2	2							2	2		2	2		
C212	2	2	2	2				2		2		2	2		2
C213	2	2		2				2		2		2	2		2
C214	3	3	3	2	2			3	2	2		2	3	3	3
C215	3	3	3	3						3		3	3	3	3
C216	2	2	2		2					2		2	2	2	2
C21L7	3	3	3		3					3		3	3	3	3
C21L8	3	3	3		3							3			3
C301	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
C302	2	2	2						2	2		2	2	1	2
C303	2	2	2	2		2		2		2		2	2	2	2
C304	2	2	2						2	2		2	2	1	2
C305	2	2	2	2	2	2				2		2	2	2	2
C306	2	2	2	2	2	2				2		2	2	2	2
C30L7	2	2	2	2	2				2		2	2	2	2	2
C30L8	2	2	2	2	2		2	2		2		2	2	2	2
C311	2	2	2		2	2				2	2	2	2	2	2
C312	3	3	3	3						3		3	3	3	3
C313	2	2	2		2					2		2	2	2	2
C314	2	2	2		2			2		2		2	2	2	2
C315	2	2	2		2			2				2	2	2	2
C31L6	2	2	2									2	2	2	2
C31L7	2	2	2	2	2				2				2	2	2
C31L8	2	2	2	2	2				2				2	2	2
C401	2	2	2									2	2	2	
C402	2	2	2		2							2	2	2	2
C403	2	2	2		2					2		2	2		2
C404	2	2	2	2						2		2	2	2	2
C4051	2	2	2		2			2				2	2	2	2
C4052	2	2	2		2			2				2	2	2	3
C40L6	3	3	3		3	3				3	3	3	3	3	3
C40P8	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
C411	2	2	2	2	2		2	2		2		2	2	2	2
C41L	2	2	2				2			2		2	2	2	
C413P	3	3	3	3	3	3	3	3	3	3		3	3	3	3
C414TS			3	3	3	3			3	3		3	3	3	
C415I	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

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H. O. D.

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DON BOSCO Institute of Technology
 Kumbalagodu, Bangalore - 74.



Achieved CO Attainment for 2018 – 22 Batch

Sl.	Course Code	Course Name	CO1	CO2	CO3	CO4	CO5	CO6	Sum	Average
1	18C101	Calculus and linear algebra	1.7	1.5	1.5	1.2	1.2		7.1	1.4
2	18C102	Engineering Chemistry	1.2	1.1	1.3	0.6	1.1		5.3	1.1
3	18C103	C Programming for problem solving	0.7	0.7	0.7	0.8			2.9	0.7
4	18C104	Basic Electronics	0.8	1.3	1.6	1.4	1.3		6.4	1.3
5	18C105	Elements of Mechanical Engineering	2.1	2.1	2.1				6.3	2.1
6	18C106	Engineering Chemistry Laboratory	2.8	2.7	2.9				8.4	2.8
7	18C107	C Programming Laboratory	1.9	1.9	1.9	1.9			7.6	1.9
8	18C108	technical English -1	1.5	1.5	1.2				4.2	1.4
9	18C111	Calculus and linear algebra	1.2	1.2	1.2	1.3	1.6		6.5	1.3
10	18C112	Engineering Physics	1.6	1.5	1.6	1.3	1.6		7.6	1.5
11	18C113	Basic Electrical Engineering	0.7	0.8	1.2				2.7	0.9
12	18C114	Elements of Civil Engineering & Mechanics	1.9	1	0.6	1.5	1.4		6.4	1.3
13	18C115	Engineering Graphics	1.5	1.4	1.4				4.3	1.4
14	18C116	Engineering Physics Lab.	2.3	2.1	2.2	2	2.3		10.9	2.2
15	18C117	Basic Electrical Engineering Laboratory	2.1	2.1	2.2	2.2			8.6	2.15
16	18C118	Technical english 2	1.5	1.4	1.2				4.1	1.37
17	18C201	Transform Calculus , Fourier series and numerical techniques	1.4	1.4	1.9	1.7	2.1		8.5	1.7
18	18C202	Strength of Materials	1.8	1.5	1.2	1.8	1.5		7.8	1.6
19	18C203	Fluid Mechanics	2.2	1.6	1.7	2	1.8		9.3	1.9
20	18C204	Building Materials and Construction	2	2	1.4	1.4	1.8		8.6	1.7
21	18C205	Basic Surveying	1.9	1.3	1.6	2.1			6.9	1.7
22	18C206	Engineering Geology	2.2	1.9	2.2	2	1.9		10.2	2.0
23	18C207	Computer Aided Building planning and Drawing	2.2	2.1	2.1				6.4	2.1
24	18C208	Building Materials Testing Laboratory	2.5	2.6	2.2				7.3	2.4
25	18C209	Kannada Manasu	2.8	2.7	2.7				8.2	2.7
26	18C211	Complex analysis, probability and statistical Methods	2.4	2.1	2.4	2.4	2.4		11.7	2.3
27	18C212	Analysis of Determinate Structures	1.7	2	2.2	2.1	2		10	2
28	18C213	Applied Hydraulics	1.2	1.7	2.2	2.3	2.3		9.7	1.94
29	18C214	Concrete Technology	2.5	2.4	2.7	2.6			10.2	2.6
30	18C215	Advanced Surveying	2.1	2.1	2.1	2.1			8.4	2.1
31	18C216	Water Supply and Treatment Engineering	2.3	2.1	2.3	2.2			8.9	2.2
32	18C217	Engineering Geology Laboratory	2.5	2.8	2.8	2.9	2.9		13.9	2.8
33	18C218	Fluid Mechanics Laboratory	2.7	2.7					5.4	2.7
34	18C219	Const. of India, Prof. Ethics & Human Rights	0.9	2.4	2.4				5.7	1.9
35	18C301	Construction Management & Entrepreneurship	2.5	2.5	2.5	2.4			9.9	2.5

36	18C302	Analysis of Indeterminate Structures	2.4	2.4	2.4	2.4	2.3		11.9	2.4
37	18C303	Design of RC structural elements	2.4	2.3	2.3	2.3			9.3	2.3
38	18C304	Basic Geotechnical Engineering	2.3	2.3	2.3	2.3	2.2		11.4	2.3
39	18C305	Municipal and Industrial waste water	2.9	2.8	2.8	2.8	2.8		14.1	2.8
40	18C306	Highway Engineering	2.4	2.3	2.3	2.2			9.2	2.3
41	18C307	Surveying Practice	2.9	2.8	2.8				8.5	2.83
42	18C308	Concrete and Highway Materials Laboratory	2.3	2.4	2.1	2.2	2.2		11.2	2.2
43	18C309	Environmental studies	2.4	2.6	2.3	2.7	2.6		12.6	2.5
44	18C311	Design of Steel Structural Elements	2.4	2.3	2.3	2.3	2.3		11.6	2.3
45	18C312	Applied Geotechnical Engineering	2.6	2.5	2.5	2.5	2.5		12.6	2.5
46	18C313	Hydrology and irrigation Engineering	2.5	2.5	2.3	2.5	2.5		12.3	2.5
47	18C314	Ground Improvement Techniques	3	2.9	3				8.9	3.0
48	18C315	World Class Manufacturing	2.7	2.7	2.7				8.1	2.7
49	18C316	Software Application Laboratory	2.6	2.6	2.6	2.6			10.4	2.6
50	18C317	Environmental Engineering Laboratory	2.6	2.6	2.6	2.7	2.7		13.2	2.6
51	18C318	Extensive Survey Project/Camp	2.6	2.7	2.5	2.7	2.6		13.1	2.6
52	18C401	Quality surveying and contract management	2.2	2.3	2.1	2.4	2.3		11.3	2.3
53	18C402	Design of RCC and Steel Structures	1.4	1.6					3	1.5
54	18C403	Air pollution and control	2	2.2	2	2.2	2.4		10.8	2.2
55	18C404	Urban Transportation and Planning	2	2	2	2.4			8.4	2.1
56	18C405	Electrical Energy Conservation And Auditing	1.6	1.5	1.8	1.8			6.7	1.7
57	18C406	Computer Aided Detailing of Structures	2.6	2.6					5.2	2.6
58	18C407	Geotechnical engineering laboratory	2.3	2.4	2.2	2.4	2.2		11.5	2.3
59	18C408	Project work phase-I+ project work Seminar	2.8	2.8	2.5	2.9			11	2.75
60	18C411	Design of prestressed concrete	1.2	1.1	1.8	2	1.9		8	1.6
61	18C412	Pavement Design	1.7	1.2	1.5	2.4	1.5		8.3	1.7
62	18C413	Project Work Phase - 2	4	4.1	3.8				11.9	3.97
63	18C414	Technical Seminar	2.5	2.3	2.1	2.2	2.5		11.6	2.3
64	18C415	Internship	2.2	2.1	2.4				6.7	2.23

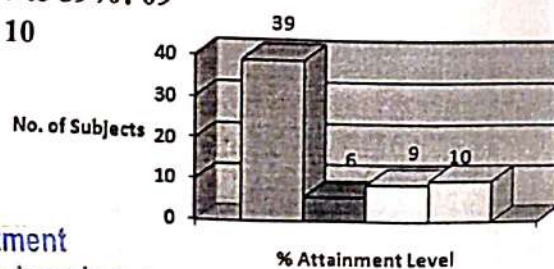
Number of subjects attained 70% and above: 39

Number of subjects attained between 60% to 69%: 06

Number of subjects attained between 50% to 59%: 09

Number of subjects attained below 50%: 10

No. of Subjects vs % Attainment Level



- ☐ Number of subjects attained 70% and above
- ☐ Number of subjects attained between 60% to 70%
- ☐ Number of subjects attained between 50% to 60%
- ☐ Number of subjects attained below 50%


Head of the Department
Department of Civil Engineering
Don Bosco Institute of Technology
Bengaluru - 560074



Attainment of Program Outcomes for 2018-2022 Batch

SL NO	COURSE CODE	COURSE NAME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO11	PO12
1	18C101	Calculus and linear algebra	1.42	1.42							1.42	1.42		1.42
2	18C102	Engineering Chemistry	1.25	0.85	1.15		0.93	1.3				1.1		
3	18C103	C Programming for problem solving	1.41	1.41	1.41						1.41	1.41		1.41
4	18C104	Basic Electronics	1.29	1.29	1.29				1.29			1.29		1.29
5	18C105	Elements of Mechanical Engineering	2.1	2.1	2.1			2.1	2.1			2.1		2.1
6	18C106	Engineering Chemistry Laboratory	2.75				2.8	2.8			2.8	2.9		2.9
7	18C107	C Programming Laboratory	1.88	1.88	1.88									1.88
8	18C108	Technical English -1									1.39	1.4		1.4
9	18C111	Calculus and linear algebra	1.3	1.3							1.3	1.3		1.3
10	18C112	Engineering Physics	1.52	1.52								1.52		1.52
11	18C113	Basic Electrical Engineering	0.9	0.9					0.9			0.9		0.9
12	18C114	Elements of Civil Engg. & Mechanics	1.35	1.33	1.36		1.4	1.42	1.4	1.43		1.33		1.33
13	18C115	Engineering Graphics	1.4	1.4	1.4		1.44	1.5		1.4	1.4	1.44		1.44
14	18C116	Engg. Physics Lab.	2.18	2.18							2.18	2.18		2.18
15	18C117	Basic Electrical Engineering Laboratory	2.15	2.15					2.15			2.15		2.15
16	18C118	Technical english 2									1.4	1.2		1.4
17	18C201	Transform Calculus , Fourier series and numerical techniques	1.7	1.7					1.7					1.7
18	18C202	Strength of Materials	1.56	1.56	1.56	1.6	1.5	1.5	1.65	1.56	1.56	1.56		1.56
19	18C203	Fluid Mechanics	1.86	1.86	1.84	1.86	1.86		1.86		1.86	1.86		1.86
20	18C204	Building Materials and Construction	1.72	1.66	1.6	1.73	1.4	1.72	1.55	1.76	1.66	1.72	1.65	1.69
21	18C205	Basic Surveying	1.73			2	1.87	1.7	1.8	1.87	1.9	1.73		1.73
22	18C206	Engineering Geology	2.04	2.04	2.04					2.04	2.04		2.04	
23	18C207	Computer Aided Building planning and Drawing	2.13	2.13	2.13		2.13	2.13	2.13	2.13	2.13	2.13		2.13
24	18C208	Building Materials Testing Laboratory	2.28	2.27	2.26	2.3	2.3	2.26	2.32	2.25	2.29	2.28	2.28	2.29
25	18C209	Kannada Manasu									2.8	2.8		2.8
26	18C211	Complex analysis, probability and statistical Methods	2.34	2.35	2.4				2.1					2.4
27	18C212	Analysis of Determinate Structures	2	2	2	2		2		2	2	1.95		2
28	18C213	Applied Hydraulics	1.94	1.99	1.94	1.82	1.94		1.94	2.13	1.94	1.94		1.94
29	18C214	Concrete Technology	2.55	2.57	2.57	2.58	2.58	2.55	2.55	2.53	2.58	2.58	2.55	2.55
30	18C215	Advanced Surveying	0.93	0.93	0.93	0.93	0.93	0.93	1.05	0.93	0.93	0.93	1.05	0.93
31	18C216	Water Supply and Treatment Engineering	0.84	0.81	0.74	0.91	0.86	0.84	0.77	0.78	0.89	0.81	0.91	0.86
32	18C217	Engineering Geology Laboratory	2.72	2.78	2.81	2.81	2.85	2.78	2.78	2.78	2.78	2.78		2.78
33	18C218	Fluid Mechanics Laboratory	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7		2.7
34	18C219	Const. of India, Prof. Ethics & Human Rights	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
35	18C301	Construction Management & Entrepreneurship	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.49	2.48	2.48	2.48

36	18C302	Analysis of Indeterminate Structures	2.38	2.38	2.38	2.38	2.38	2.38			2.38	2.38		2.38
37	18C303	Design of RC structural elements	0.88	0.88	0.88	0.88	0.82	0.88	0.88	0.88	0.88	0.88		0.88
38	18C304	Basic Geotechnical Engineering	2.28	2.28	2.28	2.28	2.28	2.28	2.28		2.28	2.28		2.28
39	18C305	Municipal and Industrial waste water	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82
40	18C306	Highway Engineering	2.3	2.29	2.3	2.3	2.25	2.3	2.3	2.3	2.3	2.3	2.27	2.28
41	18C307	Surveying Practice	1.22	1.21	1.21	1.22	1.2	1.21	1.2	1.22	1.21	1.22	1.22	1.21
42	18C308	Concrete and Highway Materials Laboratory	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24		2.24
43	18C309	Environmental studies	0.244	0.24 2	0.242	0.24 4	0.24	0.24 2	0.24	0.24 4		0.24 4	0.24 4	0.24 2
44	18C311	Design of Steel Structural Elements	1.02	1.02	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03		1.03
45	18C312	Applied Geotechnical Engineering	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52		2.52
46	18C313	Hydrology and irrigation Engineering	2.47	2.45	2.46	2.46	2.45	2.46	2.46	2.46		2.46		2.46
47	18C314	Ground Improvement Techniques	1.35	1.35	1.35	1.35	1.35	1.35	1.36	1.35		1.35		1.35
48	18C315	World Class Manufacturing	2.7	2.7	2.7	2.7		2.7	2.7	2.7			2.7	2.7
49	18C316	Software Application Laboratory	1.3	1.3	1.3		1.3			1.3	1.3	1.3	1.3	1.3
50	18C317	Environmental Engineering Laboratory	2.64	2.64	2.64	2.64	2.65	2.64	2.64	2.64	2.64	2.64	2.64	2.64
51	18C318	Extensive Survey Project/Camp	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62
52	18C401	Quality surveying and contract management	2.26	2.27	2.27	2.26	2.26	2.25	2.27	2.25	2.26	2.26	2.26	2.26
53	18C402	Design of RCC and Steel Structures	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4		1.4
54	18C403	Air pollution and control	2.11	2.09	2.12	2.12	2.12	2.1	2.1	2.1	2.1	2.1		2.1
55	18C404	Urban Transportation and Planning	2.1	2.1	2.1	2.1		2.1	2.1		2.1	2.1		2.1
56	18C405	Electrical Energy Conservation and Auditing	1.34	1.34	1.34			1.34	1.32		1.34		1.34	
57	18C406	Computer Aided Detailing of Structures	0.65	0.65	0.65	0.65	0.65			0.65	0.65	0.65		0.65
58	18C407	Geotechnical engineering laboratory	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3		2.3
59	18C408	Project work phase-I+ project work Seminar	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.65	2.64	2.64	2.64
60	18C411	Design of prestressed concrete	1.6	1.66	1.71	1.71	1.7	1.9	1.65	1.6	1.67	1.6	1.6	1.6
61	18C412	Pavement Design	1.68	1.66	1.66	1.66	1.66	1.7	1.65	1.8	1.66	1.66	1.5	1.7
62	18C413	Project Work Phase - 2	3.97	3.97	3.96	3.97	3.97	3.97	3.94	3.97	3.95	3.97	3.94	3.97
63	18C414	Technical Seminar	2.16	2.16	2.17	2.15	2.17	2.16	2.17	2.16	2.16	2.16		2.15
64	18C415	Internship	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18

Sum	115.7	110.8	100.0	82.4	85.1	90.3	92.1	82.1	98.4	109.1	46.1	117.0
Count	61	59	52	41	44	45	47	42	50	58	23	61
Direct Attainment	1.90	1.88	1.92	2.01	1.93	2.01	1.96	1.95	1.97	1.88	2.01	1.92
Indirect Attainment	2.77	2.69	2.60	2.06	2.06	2.21	2.23	2.08	2.44	2.60	2.19	2.65
Co Attainment	2.07	2.04	2.06	2.02	1.96	2.05	2.01	1.98	2.06	2.03	2.04	2.06


 Head of the Department
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**Attainment of Program Specific Outcomes for 2018-2022 Batch**

SLNO	COURSE CODE	COURSE NAME	PSO1	PSO2	PSO3
1	18C101	Calculus and linear algebra	1.42	1.42	
2	18C102	Engineering Chemistry	1.2	0.9	1.08
3	18C103	C Programming for problem solving	1.41		0.69
4	18C104	Basic Electronics	1.42	1.43	
5	18C105	Elements of Mechanical Engineering	2.1	2.1	
6	18C106	Engineering Chemistry Laboratory	2.75		2.7
7	18C107	C Programming Laboratory	1.88	1.88	1.88
8	18C108	Technical English -1			
9	18C111	Calculus and linear algebra	1.3	1.3	
10	18C112	Engineering Physics	1.52	1.52	
11	18C113	Basic Electrical Engineering	0.82		0.9
12	18C114	Elements of Civil Engineering & Mechanics	1.32	1.33	
13	18C115	Engineering Graphics	1.43	1.46	
14	18C116	Engineering Physics Lab.	2.2	2.19	
15	18C117	Basic Electrical Engineering Laboratory	2.15		2.15
16	18C118	Technical english 2			
17	18C201	Transform Calculus , Fourier series and numerical techniques	1.7		
18	18C202	Strength of Materials	1.56	1.56	
19	18C203	Fluid Mechanics	1.86	1.86	
20	18C204	Building Materials and Construction	1.6	1.7	
21	18C205	Basic Surveying	1.73	1.73	
22	18C206	Engineering Geology	2.04	2.04	
23	18C207	Computer Aided Building planning and Drawing	2.13	2.13	
24	18C208	Building Materials Testing Laboratory	2.29	2.28	
25	18C209	Kannada Manasu		2.8	
26	18C211	Complex analysis, probability and statistical Methods			2.34
27	18C212	Analysis of Determinate Structures	2	2	
28	18C213	Applied Hydraulics	1.94	1.94	
29	18C214	Concrete Technology	2.55	2.55	
30	18C215	Advanced Surveying	0.93	0.93	
31	18C216	Water Supply and Treatment Engineering	0.85	0.84	
32	18C217	Engineering Geology Laboratory	2.78	2.78	
33	18C218	Fluid Mechanics Laboratory	2.7	2.7	
34	18C219	Const. of India, Prof. Ethics & Human Rights	1.9	1.9	
35	18C301	Construction Management & Entrepreneurship	2.48	2.48	
36	18C302	Analysis of Indeterminate Structures	2.38	2.38	

37	18C303	Design of RC structural elements	0.88	0.88	
38	18C304	Basic Geotechnical Engineering	2.28	2.28	
39	18C305	Municipal and Industrial waste water	2.82	2.82	
40	18C306	Highway Engineering	2.3	2.3	
41	18C307	Surveying Practice	1.22	1.22	
42	18C308	Concrete and Highway Materials Laboratory	2.24	2.24	
43	18C309	Environmental studies	2.2	1	
44	18C311	Design of Steel Structural Elements	1.03	1.03	
45	18C312	Applied Geotechnical Engineering	2.52	2.52	
46	18C313	Hydrology and irrigation Engineering	2.46	2.46	
47	18C314	Ground Improvement Techniques	1.35	1.35	
48	18C315	World Class Manufacturing	2.7	2.7	2.7
49	18C316	Software Application Laboratory	1.3	1.3	
50	18C317	Environmental Engineering Laboratory	2.64	2.64	
51	18C318	Extensive Survey Project/Camp	2.62	2.62	
52	18C401	Quality surveying and contract management	2.27	2.27	
53	18C402	Design of RCC and Steel Structures	1.4	1.4	
54	18C403	Air pollution and control	2.1	2.1	
55	18C404	Urban Transportation and Planning	2.1	2.1	
56	18C405	Electrical Energy Conservation and Auditing	1.34	1.34	1.34
57	18C406	Computer Aided Detailing of Structures	0.65	0.65	
58	18C407	Geotechnical engineering laboratory	2.3	2.3	
59	18C408	Project work phase-I+ project work Seminar	2.64	2.64	
60	18C411	Design of prestressed concrete	1.63	1.65	
61	18C412	Pavement Design	1.68	1.7	
62	18C413	Project Work Phase - 2	3.97	3.97	
63	18C414	Technical Seminar	2.16	2.16	
64	18C415	Internship	2.18	2.18	

Sum	115.3	108.0	
Count	60	56	
Direct Attainment	1.92	1.93	
Indirect Attainment	2.71	2.19	
Co-Attainment	2.08	1.98	


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ATTAINMENT OF ALL THE COURSES (CIE+SEE) FOR BATCH 2018-22

CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO 3
18C201	1.92	1.92							1.92	1.92		1.92	1.83	1.87	
18C202	1.70	1.70	1.70			1.70				1.70		1.70	1.70		
18C203	2.18	2.18	2.18							2.18		2.18	2.18		
18C204	1.69	1.69		1.72						1.69		1.69	1.69	1.69	
18C205	1.21	1.21	1.19							0.94		1.21	1.13	1.13	1.13
18C206	1.73	1.71	1.67							1.73		1.73	1.73		
18C207	2.68	2.68	2.68	2.68	2.68					2.68	2.68	2.68	2.68		2.68
18C208	2.82	2.82	2.82		2.82				2.82	2.82		2.82	2.82	2.82	
18C209								1.85	1.85			1.85			1.85
18C211	2.49	2.49							2.49	2.49		2.49	2.44	2.41	
18C212	2.24	2.25	2.26	2.26	2.39					2.25		2.25	2.25		
18C213	2.40	2.40	2.40							2.40		2.40	2.40	2.40	2.40
18C214	2.23	2.23	2.24	2.35					2.22	2.22		2.24	2.32		
18C215	2.15	2.15	2.15							2.15		2.15	2.15	2.15	2.15
18C216	2.26	2.26							2.22	2.26		2.26	2.29	2.28	
18C217	2.51	2.51	2.51	2.51	2.51	2.51	2.51	2.51		2.51	2.51	2.51	2.51	2.51	
18C218	2.28	2.30	2.29		2.28	2.27	2.25	2.25		2.28	2.30	2.28	2.28	2.28	

18C219								3.00	3.00			3.00			3.00
18C301						2.06		2.06	2.06	2.06	2.06	2.06			2.06
18C302	1.60	1.64	1.65	1.77	1.60				1.60	1.60	1.60	1.65	1.60	1.60	
18C303	1.83	1.83	1.84			1.84				1.83		1.83	1.84	1.83	
18C304	1.99	2.04	2.00	2.11	2.11			2.04		1.96	1.98	2.01	2.01	1.98	
18C305	1.70	1.69	1.66		1.70	1.73		1.68	1.63	1.69	1.68	1.69	1.69	1.68	1.68
18C3063	2.00	2.03	2.01		2.01	2.04				2.01	2.01	1.94	1.97	2.01	1.99
18C307	2.68	2.69	2.70		2.71				2.70	2.69		2.69	2.68		
18C308	2.01	2.01	2.03		2.03					2.03		2.03	2.02	2.03	
18C309	2.62	2.62	2.61	2.62	2.62	2.62	2.62	2.62		2.62	2.61	2.62	2.62	2.62	
18C311	2.56	2.56	2.56	2.56	2.56				2.56	2.56		2.56	2.56		
18C312	2.47	2.47	2.47		2.47					2.47		2.47	2.47	2.47	
18C313	2.57	2.57	2.58	2.56						2.56		2.56	2.55	2.59	
18C314	2.55	2.55	2.59							2.62		2.62	2.55	2.55	
18C315	2.67	2.52	2.87	1.94	2.87			2.87		2.17	2.87	2.87	2.52	2.40	
18C316	2.38	2.39	2.38		2.38				2.38	2.38		2.38	2.38	2.38	
18C317	2.38	2.39	2.38		2.38				2.38	2.38		2.38	2.38	2.38	
18C318	2.00	1.99	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.02	2.00	2.00	2.00	2.00	
18C401	1.77	1.77	1.77		1.77					1.77		1.77	1.77	1.77	
18C402	1.75	1.75	1.74		1.73					1.75		1.75	1.75	1.75	
18C403	2.20	2.20	2.20	2.20	2.20			2.20		2.20	2.20	2.20	2.20	2.20	
18C4044	2.17	2.17	2.24	2.24						2.16		2.16	2.16		
18C40ME51	2.31	2.14				2.49	2.32	2.38	2.38	2.32	2.00	2.32	2.32	2.32	
18C40CS52	2.48	2.48	2.48	2.48	2.48				2.48	2.48		2.48	2.48	2.48	2.48
18C40EE52	1.54	1.54	1.55	1.50		1.56	1.50	1.56		1.56	1.50	1.55	1.50		1.58
18C406	2.00	2.00	2.00		2.00	2.00				2.00		2.00	2.00		
18C407	3.00	3.00	3.00		3.00	3.00				3.00		3.00	3.00	3.00	
18C408	2.83	2.76	2.74	2.84	2.85	2.74	2.73	2.59	2.65	2.65	2.64	2.65	2.85	2.53	2.45
18C411	1.87	1.88	1.84			1.87				1.87		1.87	1.87	1.88	

18C4121	2.17	2.16	2.17	2.18	2.17			2.18		2.18		2.17	2.18	2.16	
18C4124	2.31	2.31	2.31	2.31			2.31			2.31		2.31	2.31	2.30	
18C413	2.86	2.87	2.87	2.86	2.86	2.87	2.87	2.87	2.87	2.87	2.87	2.87	2.86	2.88	2.90
18C414	3.00	3.00	3.00	3.00	3.00	3.00			3.00	3.00		3.00	3.00	3.00	
18C415	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95
Average Attainment (Direct)	2.24	2.24	2.26	2.35	2.38	2.29	2.41	2.33	2.39	2.22	2.26	2.25	2.24	2.25	2.24
Indirect Attainment	2.57	2.51	2.50	2.52	2.57	2.56	2.68	2.67	2.68	2.64	2.69	2.66	2.63	2.59	2.70
Final (80% Direct +20% Indirect)	2.31	2.29	2.31	2.38	2.42	2.34	2.46	2.40	2.45	2.31	2.35	2.33	2.32	2.32	2.33

Table 1 : Achieved PO-PSO Attainment for 2018-22 Batch

Achieved CO Attainment for 2018 - 22 Batch

Attainment of Course Outcomes [2018-22 Batch]									
Sl. No	Course Code	Course Name	CO Attainment						THRESHOLD
			CO1	CO2	CO3	CO4	CO5	CO6	
1	18C201	18MAT31-TRANSFORM CALCULUS, FOURIER SERIES AND NUMERICAL TECHNIQUES	1.73	1.83	2.17	2.20	2.07		2.00
2	18C202	18EC32-NETWORK THEORY	1.40	1.20	1.60	1.63	1.80		1.53
3	18C203	18EC33-ELECTRONIC DEVICES	2.00	2.10	2.00	1.70			1.95
4	18C204	18EC34-DIGITAL SYSTEM DESIGN	1.63	1.60	1.40	1.60			1.56
5	18C205	18EC35-COMPUTER ORGANIZATION AND ARCHITECTURE	2.70	2.70	2.00	1.47			2.22
6	18C206	18EC36-POWER ELECTRONICS AND INSTRUMENTATION	1.63	1.30	1.63	1.60	1.53	1.63	1.56
7	18C207	18ECL37-ELECTRONIC DEVICES AND INSTRUMENTATION LABORATORY	2.40	2.40	2.40	2.40	2.40		2.40
8	18C208	18ECL38-DIGITAL SYSTEM DESIGN LABORATORY	2.80	2.80	2.80	2.80	2.80		2.80

9	18C209	18CPC39/49-CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW (CPC)	1.90	1.90	1.90	1.90	1.90		1.90
10	18C211	18MAT41-COMPLEX ANALYSIS, PROBABILITY AND STATISTICAL METHODS	2.27	2.40	2.50	2.47	2.50		2.43
11	18C212	18EC42-ANALOG CIRCUITS	1.77	1.77	2.17	2.27	2.13		2.02
12	18C213	18EC43-CONTROL SYSTEMS	1.93	2.23	2.27	2.27	2.17		2.17
13	18C214	18EC44-ENGINEERING STATISTICS and LINEAR ALGEBRA	1.60	2.13	2.20	2.17	2.10		2.04
14	18C215	18EC45-SIGNALS AND SYSTEMS	1.90	2.00	1.70	2.30	1.80		1.94
15	18C216	18EC46-MICROCONTROLLER	2.23	2.23	2.23	2.27	2.20		2.23
16	18C217	18ECL47-MICROCONTROLLER LABORATORY	2.30	2.30	2.30	2.30	2.30		2.30
17	18C218	18ECL48-ANALOG CIRCUITS LABORATORY	2.10	2.10	2.10	2.00	2.00		2.06
18	18C219	18KAK49 ADALITHA KANNADA	3.00	3.00	3.00	3.00	3.00		3.00
19	18C301	18ES51-TECHNOLOGICAL INNOVATION MANAGEMENT AND ENTREPRENEURSHIP	1.83	1.87	1.87	1.87			1.86
20	18C302	18EC52-DIGITAL SIGNAL PROCESSING	1.47	1.40	1.60	1.60	1.13		1.44
21	18C303	18EC53-PRINCIPLES OF COMMUNICATION SYSTEMS	1.67	1.67	1.67	1.63	1.67		1.66
22	18C304	18EC54-INFORMATION THEORY and CODING	1.90	1.90	1.65	1.80	1.80		1.81
23	18C305	18EC55-ELECTROMAGNETIC WAVES	1.60	1.60	1.50	1.53	1.57		1.56
24	18C3063	18EC56-Verilog HDL	1.65	1.90	1.85	1.85	1.85		1.82
25	18C307	18ECL57-DIGITAL SIGNAL PROCESSING LABORATORY	2.30	2.40	2.40	2.40	2.50		2.40
26	18C308	18ECL58-HDL LABORATORY	1.80	1.80	1.90	1.80	2.00		1.86
27	18C309	18CIV59-ENVIRONMENTAL STUDIES	2.60	2.60	2.60	2.60	2.70		2.62
28	18C311	18EC61-DIGITAL COMMUNICATION	2.37	2.33	2.37	2.37	2.40		2.37
29	18C312	18EC62-EMBEDDED SYSTEMS	2.27	2.27	2.23	2.23	2.23		2.25
30	18C313	18EC63-MICROWAVE AND ANTENNA	2.40	2.40	2.20	2.30	2.35		2.33
31	18C314	18EC644-DIGITAL SYSTEM DESIGN USING VERILOG	2.50	2.53	2.63	2.13	2.13		2.39
32	18C315	18EC652-SENSORS AND SIGNAL CONDITIONING	2.60	2.60	2.60	1.30			2.28
33	18C316	18ECL66-EMBEDDED SYSTEMS LABORATORY	2.10	2.10	2.10	2.20	2.10		2.12
34	18C317	18ECL67-COMMUNICATION LABORATORY	2.10	2.10	2.10	2.20	2.10		2.12
35	18C318	18ECMP68-MINI PROJECT	1.90	1.90	1.90	1.60			1.83

36	18C401	18EC71-COMPUTER NETWORKS	1.70	1.50	1.60	1.60			1.60
37	18C402	18EC72-VLSI DESIGN	1.57	1.63	1.47	1.63	1.63		1.59
38	18C403	18EC732-SATELLITE COMMUNICATION	2.00	2.00	2.00	2.00	2.00		2.00
39	18C4044	18EC743-MULTIMEDIA COMMUNICATION	1.75	2.00	1.95	2.10	1.95		1.95
40	18C40ME51	18ME751-ENERGY AND ENVIRONMENT	2.30	2.00	2.50	2.50			2.33
41	18C40CS52	18CS752-PYTHON APPLICATION PROGRAMMING	2.90	2.90	2.90	2.90	2.90		2.90
42	18C40EE52	18EE752-ELECTRIC VEHICLES	1.40	1.40	1.10	1.60	1.60		1.42
43	18C406	18ECL76-COMPUTER NETWORKS LAB	1.80	1.80	1.80	1.80	1.80		1.80
44	18C407	18ECL77-VLSI LABORATORY	2.70	2.70	2.70	2.70			2.70
45	18C408	18ECP78-PROJECT WORK PHASE-1	2.80	2.90	2.80	2.10			2.65
46	18C411	18EC81-WIRELESS AND CELLULAR COMMUNICATION	1.67	1.60	1.70	1.67	1.70		1.67
47	18C4121	18EC821-NETWORK SECURITY	1.90	2.05	1.95	1.85	2.00		1.95
48	18C4124	18EC824-OPTICAL COMMUNICATION NETWORKS	2.00	2.10	2.10	2.05	2.15		2.08
49	18C413	18ECP83-PROJECT WORK PHASE-2	2.90	2.90	2.90	2.90			2.90
50	18C414	18ECS84-TECHNICAL SEMINAR	2.70	2.70	2.70	2.70	2.70		2.70
51	18C415	18ECI85-INTERNSHIP	2.70	2.70	2.70	2.70			2.70
2018 CO ATTAINMENT		Average Attainment(Direct)	2.10	2.12	2.13	2.09	2.09	1.63	2.11
		Indirect Attainment	2.90	2.90	2.90	2.90	2.80	2.95	
		Final (80% Direct +20% Indirect)	2.26	2.28	2.28	2.25	2.24	1.90	

Table 2 : Achieved CO Attainment for 2018-22 Batch

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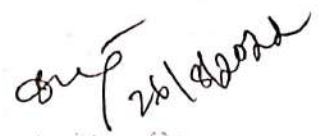
DON BOSCO INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



Attainment of Course Outcomes [2018-22 Batch]

Attainment of Course Outcomes [2018-22 Batch]									
SL No	Code	Course Name/Course Code	CO Attainment						Average
			CO1	CO2	CO3	CO4	CO5	CO6	
1	18C101	Engineering Mathematics-I	1.4	1.2	1.7	0.9	1		1.24
2	18C102	Engineering Physics	1.7	1.2	1.5	1.8	1.2		1.48
3	18C103	Basic Electrical Engineering	1.5	1.6	1.8				1.63
4	18C104	Elements of Civil Engineering and Mechanics	1	1.6	1.7	2	2.1		1.68
5	18C105	Engineering Graphics	2.9	2.5	2.8				2.73
6	18C106	Engineering Physics Laboratory	2.9	2.8	2.9	2.8	2.9		2.86
7	18C107	Basic Electrical Engineering Laboratory	3	2.9	2.9	2.9			2.93
8	18C108	Technical English - I	1.9	1.8	1.9				
9	18C109	Engineering Mathematics-2	1.5	1.6	1.4	1.5	1.4		1.48
10	18C110	Engineering Chemistry	1.5	1.5	1.5	0.7	1.6		1.36
11	18C111	Programming in C and Data Structures	1.7	1.7	1.5	1.7	1.7		1.66
12	18C112	Basic Electronics	1.3	1.3	1.5	1.7	1.6		1.48
13	18C113	Elements of Mechanical Engineering	2	1.8	1.9				1.90
14	18C114	Engineering Chemistry Laboratory	2.9	2.8	2.9				2.87
15	18C115	Computer Programming Laboratory	2.5	2.5	2.5	2.5	2.5		2.50
16	18C116	Technical English-II	1	1.1	0.9				1.00
17	18C201	Engineering Mathematics-III	1.4	1.2	1.6	1	1.4		1.32
18	18C202	Electric Circuit Analysis	1.7	1.4	1.5				1.53
19	18C203	Transformers and Generators	1.2	0.9					1.05
20	18C204	Analog Electronics Circuits	1.6	1.4	1.3	1.1	1		1.28
21	18C205	Digital System Design	0.9	1.1	1.6				1.20
22	18C206	Electrical and Electronics Measurements	1.6	1.5	1.3	1.8			1.55
23	18C207	Electrical Machines Laboratory-I	2.3	2.3	2.3	2.3	2.3		2.30
24	18C208	Electronics Laboratory	2.9	2.9	2.9	2.9			2.90
25	18C209	Constitution of India, Professional Ethics and Human Rights	2.1	2.1	2.1				2.10
26	18C210	Engineering Mathematics-IV	1.9	1.7	2	2	2.1		1.94
27	18C211	Power Generation and Economics	2.8	2.9	2.9				2.87
28	18C212	Transmission and Distribution	1.3	1.7	1.9				1.63
29	18C213	Electric Motors	1.2	2.2	2.2	2.1			1.93
30	18C214	Electromagnetic Field Theory	1.8	1.8	1.8	1.7	1.7		1.76
31	18C215	Operational Amplifiers and field Theory	1.8	1.7	1.7	1.6	1.7		1.70
32	18C216	Electrical Machines Laboratory-2	2.2	2.2	2.2	2.2			2.20
33	18C217	Operational Amplifiers and Linear IC's Laboratory	2	2	2	2			2.00
34	18C301	Management and Entrepreneurship	2	2	2.1	2.1			2.05
35	18C302	Microcontroller	1.6	1.6	1.6				1.60
36	18C303	Power Electronics	2	2	1.9				1.97
37	18C304	Signals and Systems	2.2	2.2	2.2				2.20
38	18C305	ELECTRICAL MACHINE DESIGN	1.8	1.6	1.7	1.8			1.73
39	18C306	HIGH VOLTAGE ENGINEERING	1.9	1.8	1.8				1.83
40	18C307	Microcontroller Laboratory	1.7	1.7	1.7	1.7	1.7		1.70
41	18C308	Power Electronics Laboratory	2.6	2.6	2.6	2.6	2.6		2.60
42	18C309	Environmental Studies	1.7	1.7	1.7	1.7			
43	18C310	Control Systems	2	2	2				2.00
44	18C311	Power system Analysis -I	2.3	2.3	2.3				2.30
45	18C312	Digital Signal Processing	0.7	0.5	1.7	1.5	1.8		1.24
46	18C313	Electrical Vehicle Technology	2.8	2.5	2.7				2.67
47	18C314.1	PROGRAMING IN JAVA	2	2.2	2.2	2.2	2.2		

			1.8	1.8	1.8				1.80
48	18C314.2	World Class Manufacturing	2	2	2	2	2		2.00
49	18C315	Control System Laboratory	2.6	2.5	2.5	2.5	2.5		2.52
50	18C316	Digital Signal Processing Laboratory	2	2	2	2	2	2	
51	18C317	Mini Project	2.4	2.2	2.2	2.5			2.33
52	18C401	Power System Analysis-2	2	1.9	2.2				2.03
53	18C402	Power System Protection	1.7	2.3	2.3	2.4	1.8		2.10
54	18C403	Solar and Wind Energy	1.7	1.9	1.7	1.8	1.9		1.80
55	18C404	Utilization of Electrical Power	1.6	1.7	1.7	1.7	1.4		
56	18C405.1	Python Application Programming							
57	18C405.2	ENVIRONMENTAL PROTECTION AND MANAGEMENT	2.3	2.2	2.5	2.4	2.4		2.36
58	18C406	Power System Simulation Laboratory	2.8	2.8	2.8	2.8	2.8		2.80
59	18C407	Relay and High Voltage Laboratory	3	3	3	3			3.00
60	18C408	Project Work Phase I + Project Work Seminar	3	3	3	3			3.00
61	18C409	Power System Operation and Control	1.1	1.8	1.2				1.37
62	18C410	Power System Planning	1.5	2	1.9				1.80
63	18C411	Project Work Phase II	3	3	3	3	3	3	3.00
64	18C412	Technical Seminar	3	3	3	3			3.00
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 [2018-22 Batch]

Code	Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
18C101	Engineering Mathematics-1	1.24	1.24							1.24	1.24		1.24	1.24		1.24
18C102	Engineering Physics	1.48	1.48							1.48			1.48	1.52		
18C103	Basic Electrical Engineering	1.63	1.63					1.63			1.63		1.63	1.59		1.63
18C104	Elements of Civil Engineering and Mechanics	1.72	1.73	1.67		1	1.43	1	1.65		1.68		1.68	1.7	1.68	
18C105	Engineering Graphics			2.5		2.7	2.9	2.8	2.5	2.65	2.74	2.8	2.8	2.65	2.9	2.9
18C106	Engineering Physics Laboratory	2.86	2.86							2.85	2.86		2.86	2.86		
18C107	Basic Electrical Engineering Laboratory	1.8	1.8	1.8				1.8		1.8	1.8		1.8	1.8		1.8
18C108	Technical English - I	1.87								1.87			1.87			1.8
18C109	Engineering Mathematics-2	1.48	1.48							1.48	1.48		1.48	1.48		1.48
18C110	Engineering Chemistry	1.36	1.36	1.36				1.36		1.36	1.36		1.36	1.4	1.12	1.23
18C111	Programming in C and Data Structures	1.72	1.74	1.73	1.75	1.78	1.8	1.72	1.8					1.76	1.7	
18C112	Basic Electronics	1.67	1.54	1.53				1.67			1.67		1.67	1.54	1.51	
18C113	Elements of Mechanical Engineering	1.9	1.9		1.9			1.9				1.9		1.95	1.92	
18C114	Engineering Chemistry Laboratory	2.87	2.87	2.87			2.87	2.87		2.87	2.87		2.87	2.85		2.8
18C115	Computer Programming Laboratory	2.78	2.78			2.78								2.75	2.78	
18C116	Technical English-II	1								1		1				
18C201	Engineering Mathematics-III	1.32	1.32					1.32					1.32	1.32		1.32
18C202	Electric Circuit Analysis	1.53	1.53		1.5								1.53	1.52		1.53
18C203	Transformers and Generators	1.05	1.05											1.05	1.05	1.05
18C204	Analog Electronics Circuits	1.25	1.25	1.22	1.05					1.28	1.28		1.28	1.26	1.28	1.28
18C205	Digital System Design	1.2	1.22	1.2	1.12	1.2			1.2	1.12			1.2	1.15	1	1.2
18C206	Electrical and Electronics Measurements	1.44	1.47	1.55		1.45	1.45	1.45		1.55	1.47	1.47	1.47	1.47	1.45	1.47
18C207	Electrical Machines Laboratory-I	2.3	2.3	2.3						2.3	2.3		1.92	2.3	2.3	2.3
18C208	Electronics Laboratory	2.42	2.26	2.18						2.32	2.32		2.32	2.32		2.32
18C209	Constitution of India, Professional Ethics and Human Rights						2.1		2.1				2.1			2.1
18C210	Engineering Mathematics-IV	1.94	1.94							1.94	1.94		1.94	1.94		1.94
18C211	Power Generation and Economics	2.87	2.87	2.87			2.87	2.87						2.87		2.87
18C212	Transmission and Distribution	1.68	1.8	1.8						1.63	1.63		1.63	1.63		1.63
18C213	Electric Motors	1.93	1.93							1.93	1.93		1.93	1.93		1.93
18C214	Electromagnetic Field Theory	1.76	1.77		1.76					1.76	1.76		1.76	1.76		1.76
18C215	Operational Amplifiers and field Theory	1.7	1.68	1.7	1.65	1.65						1.66	1.7	1.7	1.67	1.7
18C216	Electrical Machines Laboratory-2	1.76	1.76							1.76	1.76		1.76	1.76		1.76

18C217	Operational Amplifiers and Linear IC's Laboratory	2	2	2		2	2			2	2	2	2	2	2	
18C301	Management and Entrepreneurship	2.05							2.05	2.05	2.05	2.1	2.05	2.05		2.05
18C302	Microcontroller	1.6	1.6	1.6										1.6	1.6	1.6
18C303	Power Electronics	1.97	1.96		1.97					1.97	1.97		1.97	1.97		1.97
18C304	Signals and Systems	2.2	2.2							2.2	2.2			2.2		2.2
18C305	ELECTRICAL MACHINE DESIGN	1.72	1.73	1.71	1.7					1.73	1.8		1.72	1.73		1.73
18C306	HIGH VOLTAGE ENGINEERING	1.83	1.83	1.83									1.83	1.83		1.83
18C307	Microcontroller Laboratory	1.7	1.7	1.7	1.7	1.7				1.7			1.7	1.7	1.7	1.7
18C308	Power Electronics Laboratory	2.6	2.6							2.6			2.6	2.6		2.6
18C309	Environmental Studies						1.7						1.7			1.7
18C310	Control Systems	2	2	2	2									2		
18C311	Power system Analysis 1	2.3	2.3	2.3		2.3							2.3	2.3	2.3	2.3
18C312	Digital Signal Processing	1.24	1.18	1.75						1.24	1.24		1.24	1.24	1	1.24
18C313	Electrical Vehicle Technology	2	2.2	1.73			1.96	2.09		1.73			2	2	1.35	2
18C314.1	PROGRAMMING IN JAVA	2.15	2.16	2.16										2.16	2.18	
18C314.2	World Class Manufacturing	1.8	1.8	1.8	1.8		1.8	1.8	1.8			1.8	1.8	1.8	1.8	1.8
18C315	Control System Laboratory	2	2	2		2				2	2		2	2	2	2
18C316	Digital Signal Processing Laboratory	2.52	2.52	2.52	2.52	2.53								2.52	2.52	2.52
18C317	Mini Project	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
18C401	Power System Analysis 2	2.31	2.33		2.33	2.33				2.33	2.33		2.32	2.33	2.33	2.32
18C402	Power System Protection	2.03	2.03	2.03									2.03	2.03		2.03
18C403	Solar and Wind Energy Utilization of Electrical Power	2.1				2.1	2.1	2.1	2.1			2.1		2.1	2.1	2.1
18C404	Python Application Programming	1.62	1.7	1.67	1.58	1.7	1.65							1.63	1.66	
18C405.2	ENVIRONMENTAL PROTECTION AND MANAGEMENT	2.36	2.38	2.36	2.33	2.4	2.36	2.36	2.37	2.37	2.36	2.36	2.34	2.36	2.39	2.36
18C406	Power System Simulation Laboratory	2.8	2.8	2.8		2.8								2.8	2.8	
18C407	Relay and High Voltage Laboratory	3	3							3	3		3	3		3
18C408	Project Work Phase I + Project Work Seminar	3	3	3	3	3			3	3	3	3	3	3	3	3
18C409	Power System Operation and Control	1.37	1.31							1.37	1.37		1.37	1.37		1.37
18C410	Power System Planning	1.8	1.8							1.8	1.8		1.8	1.8		1.8
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)	1.97419	1.991	2.05	2.03	2.2	2.21	2.02	2.2	2.05	2	2.245	1.946	2	2.003	1.982
	Indirect Attainment	2.95	2.90	2.6	2.3	2.46	2.2	2.8	2.3	2.7	2.84	2.098	2.4	2.84	2.8	2.6
	Final (80% Direct+20% Indirect)	2.17	2.17	2.20	2.09	2.25	2.20	2.18	2.22	2.18	2.17	2.22	2.04	2.17	2.16	2.11
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
		72.3	72.4	73.4	69.5	75.1	73.5	72.6	73.9	72.5	72.3	73.2	72.3	72.1	70.2	

Head of the Department

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