



Wayanamac Education Trust ®  
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 DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING  
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### Achieved PO-PSO ATTAINMENT OF ALL THE COURSES (CIE+SEE) FOR BATCH 2020-24

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
20C201	1.85	1.85							1.85	1.85		1.85	1.79	1.79	
20C202	1.18	1.18								1.18		1.18	1.12		
20C203	2.10	2.10	2.10							2.10		2.10	2.10		
20C204	1.80	1.80	1.80	1.80	1.80					1.80		1.79	1.80	1.80	
20C205	1.50	1.48	1.45			1.50				1.50		1.46	1.50	1.47	
20C206	1.49	1.52	1.51	1.58		1.58				1.52		1.52	1.52		
20C207	1.70	1.70	1.70	1.70	1.70					1.70	1.70	1.70	1.70		1.70
20C208	2.90	2.90	2.90		2.90				2.90	2.90		2.90	2.90	2.90	
20C209						0.62		0.62	0.62	0.62		0.62			0.62
20C211	1.59	1.59							1.59	1.59		1.59	1.58	1.565	
20C212	1.47	1.45	1.40	1.40	1.40					1.47		1.47	1.47		
20C213	1.17	1.17	1.17	1.40						1.17		1.17	1.17	1.24	
20C214	1.42	1.42	1.38	1.20					1.42	1.42		1.38	1.50		
20C215	1.36	1.36	1.36	1.20	1.43					1.28	1.36	1.36	1.36	1.36	1.44
20C216	1.35	1.36		1.33	1.33	1.33			1.34	1.33	1.33	1.33	1.33	1.33	
20C217	1.35	1.36		1.33	1.33	1.33			1.34	1.33	1.33	1.33	1.33	1.33	
20C218	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50		2.50	2.50	2.50	2.50	2.50	
20C219	2.00	2.00	2.00		2.00	2.00				2.00		2.00	2.00	2.00	
20C301								2.50	2.50			2.50			2.50
20C302	1.11	1.07	1.02	0.92	1.03	0.98				1.12	1.12	1.12	1.10		
20C303	1.43	1.43	1.41		1.25					1.43		1.43	1.43		
20C304	1.54	1.50	1.40	1.37						1.57		1.47	1.50	1.30	
20C305	1.50	1.48	1.47	1.45	1.49	1.45		1.50	1.45	1.48	1.45	1.45	1.48	1.48	1.50
20C306	1.92	1.90	1.88	2.05	1.89	1.90				1.93	1.91	1.95	1.99	1.91	1.93

20C307	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60		1.60	1.60	1.60	1.60	1.60	
20C308	1.80	1.80	1.80	1.80	1.80	1.80			1.80	1.80		1.80	1.80		
20C309	1.70		1.70		1.70		1.70		1.70		1.70	1.70	1.70	1.70	
20C311	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6		1.6	1.6	1.6	1.6	1.6	
20C312	2.03	2.01	2.08	2.06	2.06				2.06	2.01		2.01	2.06		
20C313	1.59	1.59	1.59		1.59					1.59		1.59	1.59	1.59	
20C314	1.33	1.33	1.32	1.30						1.30		1.30	1.26	1.38	
20C31646	1.755	1.785	1.68	1.825	1.83		1.75			1.735		1.815	1.67	1.79	
20C31CS53	1.65	1.68	1.66	1.70	1.69	1.65				1.66	1.66	1.60	1.90	1.66	1.64
20C31CV651	1.50	1.45	1.72	1.47	1.83			1.60	1.47			1.47	1.47	1.74	
20C31EE653	2.11	2.08	2.08	2.03	2.08	2.02	2.08	2.10	2.08	2.08	2.08	2.08	2.08	2.08	2.08
20C316	0.87					0.87	0.87				0.87		0.87		
20C317	2.50	2.50	2.50		2.50					2.50		2.50	2.50	2.50	2.50
20C318	1.90	1.90	1.90		1.90				1.90	1.90		1.90	1.90		
20C401	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
20C402	1.61		1.61				1.61			1.61		1.61	1.61	1.61	
20C403	1.38	1.47	1.42		1.38		1.43		1.42	1.43	1.43	1.46	1.43	1.43	
20C4044	1.86	1.86	1.87			1.83	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.87
20C40CS75	2.00	2.00	2.00					2.00		2.00		2.00	2.00		2.00
20C40EE753	2.30	2.30	2.30	2.30					2.30			2.30	2.30		
20C40EE754	1.56	1.75	1.70				1.56	1.70					1.56		1.56
20C406	1.63	1.63	1.60	1.60		1.84	1.95	2.00	1.60		1.60	2.00	1.63	1.66	
20C407	1.70	1.70	1.70		1.70						1.70	1.70	1.70	1.70	1.70
20C408	2.10	2.10	2.10		2.10					2.10		2.10	2.10	2.10	
20C411	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
20C4121	1.91	1.98	1.98			2.00	2.00	2.00		1.96		1.96	1.96	1.96	
20C413	1.86	1.86	1.86					1.86		1.86		1.86	1.86		1.86
20C414	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60
20C415	2.70	2.70	2.70	2.70	2.70	2.70			2.70	2.70		2.70	2.70	2.70	
20C415	2.70	2.46	2.43	2.70	2.70	2.51	2.51	2.22	2.32	2.33	2.33	2.36	2.70	2.70	2.70
<b>Average attainment ( Direct)</b>	<b>1.80</b>	<b>1.82</b>	<b>1.85</b>	<b>1.80</b>	<b>1.91</b>	<b>1.82</b>	<b>1.95</b>	<b>1.99</b>	<b>1.90</b>	<b>1.79</b>	<b>1.81</b>	<b>1.81</b>	<b>1.80</b>	<b>1.87</b>	<b>1.95</b>

Indirect Attainment	2.96	2.93	2.98	2.96	2.97	2.9	2.98	2.96	2.93	2.92	2.87	2.77	2.99	2.97	2.95
Final (80% Direct +20% Indirect)	2.03	2.04	2.07	2.03	2.12	2.04	2.15	2.18	2.10	2.02	2.02	2.00	2.04	2.09	2.15

**Table 1 : Achieved PO-PSO attainment for batch 2020-24**

**Attainment of Course Outcomes [2020-24 Batch]**

Sl. No	Course Code	Course Name	CO Attainment					
			CO1	CO2	CO3	CO4	CO5	CO6
1	20C201	18MAT31-TRANSFORM CALCULUS, FOURIER SERIES AND NUMERICAL TECHNIQUES	1.65	1.80	1.70	2.00	2.10	
2	20C202	18EC32-NETWORK THEORY	0.70	1.40	1.60	1.40	1.40	
3	20C203	18EC33-ELECTRONIC DEVICES	2.20	1.80	2.20	2.20		
4	20C204	18EC34-DIGITAL SYSTEM DESIGN	1.80	1.90	1.85	1.70	1.75	
5	20C205	18EC35-COMPUTER ORGANIZATION AND ARCHITECTURE	1.50	1.30	1.60	1.60		
6	20C206	18EC36-POWER ELECTRONICS AND INSTRUMENTATION	1.45	1.60	1.70	1.65	1.55	1.70
7	20C207	18ECL37-ELECTRONIC DEVICES AND INSTRUMENTATION LABORATORY	1.70	1.70	1.70	1.70	1.70	
8	20C208	18ECL38-DIGITAL SYSTEM DESIGN LABORATORY	2.90	2.90	2.90	2.90	2.90	
9	20C209	18CPC39/49-CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW (CPC)	1.10	0.90	1.10			
10	20C211	18MAT41-COMPLEX ANALYSIS, PROBABILITY AND STATISTICAL METHODS	1.55	1.55	1.70	1.60	1.55	
11	20C212	18EC42-ANALOG CIRCUITS	1.50	1.40	1.40	1.55		
12	20C213	18EC43-CONTROL SYSTEMS	1.60	1.20	1.50	1.05	1.35	
13	20C214	18EC44-ENGINEERING STATISTICS and LINEAR ALGEBRA	1.60	1.20	1.20	1.50	1.60	
14	20C215	18EC45-SIGNALS AND SYSTEMS	1.70	1.50	0.90	1.60	1.10	
15	20C216	18EC46-MICROCONTROLLER	1.30	1.00	1.20	1.55	1.60	
16	20C217	18ECL47-MICROCONTROLLER LABORATORY	2.50	2.50	2.50	2.50	2.50	
17	20C218	18ECL48-ANALOG CIRCUITS LABORATORY	2.00	2.00	2.00			
18	20C219	18KAK49 ADALITHA KANNADA	2.50	2.50	2.50	2.50	2.50	

19	20C301	18ES51-TECHNOLOGICAL INNOVATION MANAGEMENT AND ENTREPRENEURSHIP	2.70	2.55	2.15	2.60	2.30	
20	20C302	18EC52-DIGITAL SIGNAL PROCESSING	1.85	1.15	1.50	1.45	1.90	
21	20C303	18EC53-PRINCIPLES OF COMMUNICATION SYSTEMS	1.20	1.65	1.35	1.55	1.70	
22	20C304	18EC54-INFORMATION THEORY and CODING	1.85	1.75	1.60	1.15	1.15	
23	20C305	18EC55-ELECTROMAGNETIC WAVES	1.50	1.55	1.45	1.40		
24	20C306	18EC56-Verilog HDL	2.00	2.05	2.05	1.90	1.55	
25	20C307	18ECL57-DIGITAL SIGNAL PROCESSING LABORATORY	1.80	1.80	1.80	1.80	1.80	
26	20C308	18ECL58-HDL LABORATORY	1.70	1.70	1.70	1.70	1.70	
27	20C309	18CIV59-ENVIRONMENTAL STUDIES	1.60	1.60	1.60	1.60	1.60	
28	20C311	18EC61-DIGITAL COMMUNICATION	2.35	2.35	1.75	1.60	2.00	
29	20C312	18EC62-EMBEDDED SYSTEMS	1.65	1.55	1.70	1.40	1.65	
30	20C313	18EC63-MICROWAVE AND ANTENNA	1.65	1.20	0.95	1.35	1.35	
31	20C314	18EC644- PYTHON	2.30	1.75	1.60	1.45	1.90	
32	20C31646	18EC646-DSDV	1.90	1.90	1.50	1.30	1.70	
33	20C31CS53	18CS653-Java Programming	1.00	1.80	1.30	1.90	1.90	
34	20C31CV651	18CV651-Remote Sensing & GIS	2.30	2.20	2.20	1.60		
35	20C31EE653	18EE653-Renewable Energy Systems	1.20	0.90	1.20			
36	20C316	18ECL66-Embedded Systems Laboratory	2.50	2.50	2.50	2.50	2.50	
37	20C317	18ECL67-Communication Laboratory	1.90	1.90	1.90	1.90	1.90	
38	20C318	18ECMP-Mini Project	2.50	2.50	2.50	2.50		
39	20C401	18EC71-COMPUTER NETWORKS	1.65	1.60	1.40	1.60	1.80	
40	20C402	18EC72-VLSI DESIGN	1.10	1.60	1.60	1.15	1.60	
41	20C403	18EC732-SATELLITE COMMUNICATION	1.70	1.75	1.95	1.85	1.70	
42	20C4044	18EC744-CRYPTOGRAPHY	1.85	2.05	1.75	2.35		
43	20C40CS75	18CS75-Introduction to Big Data	2.30	2.20	2.30	2.40		
44	20C40EE753	18EE753-Electric Vehicles	1.60	1.90	1.90	1.50	2.10	
45	20C40EE754	18EE754-Electrical Energy Conservation & Auditing	2.00	1.40	1.60	1.70	1.80	
46	20C406	18ECL76-Computer Networks Lab	1.70	1.70	1.70	1.70		
47	20C407	18ECL77-VLSI Lab	2.10	2.10	2.10	2.10	2.10	
48	20C408	18ECP78-Project Work - Phase 1	3.00	3.00	3.00	3.00		
49	20C411	18EC81-WIRELESS AND CELLULAR COMMUNICATION	2.06	1.80	2.00	2.05	1.90	
50	20C4121	18EC821-NETWORK SECURITY	1.95	1.95	1.80	1.85	1.75	

51	20C413	18ECP83-PROJECT WORK PHASE-2	2.60	2.60	2.60	2.60		
52	20C414	18ECS84-TECHNICAL SEMINAR	2.70	2.70	2.70	2.70	2.70	
53	20C415	18ECI85-INTERNSHIP	2.70	2.70	2.70	2.70		
		<b>2020 CO ATTAINMENT</b>						
		Average Attainment (Direct)	<b>1.83</b>	<b>1.79</b>	<b>1.77</b>	<b>1.80</b>	<b>1.81</b>	<b>1.70</b>
		Indirect Attainment	2.98	2.96	2.98	2.99	2.96	2.97
		<b>Final (80% Direct +20% Indirect)</b>	<b>2.06</b>	<b>2.02</b>	<b>2.01</b>	<b>2.04</b>	<b>2.04</b>	<b>1.95</b>

**Table 2 : Achieved CO attainment for 2020-24 batch**

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**HOD ECE**

PROFESSOR

Dept. of Electrical & Communication

80W BOSCO INSTITUTE OF TECHNOLOGY

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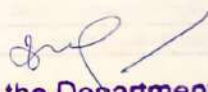
**DON BOSCO INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**



**Attainment of Course Outcomes [2020-24 Batch]**

Attainment of Course Outcomes [2020-24 Batch]									
Sl No	Code	Course Name/Course Code	CO Attainment						Average
			CO1	CO2	CO3	CO4	CO5	CO6	
1	18C101	Engineering Mathematics-1	2.2	1.5	2	1.7	2.1		1.90
2	18C102	Engineering Physics	2	2.2	2.3	1.6	2.3		2.08
3	18C103	Basic Electrical Engineering	1.9	1.8	1.9				1.87
4	18C104	Elements of Civil Engineering and Mechanics	2.4	2.4	2.4	2.4	2.5		2.42
5	18C105	Engineering Graphics	1.6	1.6	1.6				1.60
6	18C106	Engineering Physics Laboratory	2.2	2.1	2	2.1	2.2		2.12
7	18C107	Basic Electrical Engineering Laboratory	1.6	1.6	1.6	1.6			1.60
8	18C108	Technical English - I	2.1	2.1	2.1				
9	18C109	Engineering Mathematics-2	1.8	1.8	1.8	1.8	1.8		1.80
10	18C110	Engineering Chemistry	1.4	1.3	1.7	1.4	1.4		1.44
11	18C111	Programming in C and Data Structures	2.3	2.5	2.1	2.6	2.6		2.42
12	18C112	Basic Electronics	1.3	1.3	1.5	1.7	1.6		1.48
13	18C113	Elements of Mechanical Engineering	1.4	1.5	1.6				1.50
14	18C114	Engineering Chemistry Laboratory	2.8	2.8	2.8				2.80
15	18C115	Computer Programming Laboratory	2.4	2.4	2.4	2.6	2.8		6.84
16	18C116	Technical English-II	2.1	2.1	2.1				2.10
17	18C201	Engineering Mathematics-III	1.4	1.6	2.1	2.3	1.8		1.84
18	18C202	Electric Circuit Analysis	1.3	1.2	1	1.3			1.20
19	18C203	Transformers and Generators	0.6	1.4					1.00
20	18C204	Analog Electronics Circuits	1.7	1.6	1.9				1.73
21	18C205	Digital System Design	1.6	1.3	1.6				1.50
22	18C206	Electrical and Electronics Measurements	2	1.9	1.7				1.87
23	18C207	Electrical Machines Laboratory-1	2	2	2	2	2		2.00
24	18C208	Electronics Laboratory	2.9	2.9	2.9	2.9			2.90
25	18C209	Constitution of India, Professional Ethics and Human Rights	1.8	1.8	1.8				1.80
26	18C210	Engineering Mathematics-IV	1.3	1.5	1.6	1.7	1.9		1.60
27	18C211	Power Generation and Economics	1.9	1.8	1.9	1.7	1.6		1.78
28	18C212	Transmission and Distribution	1.4	1	1.6				1.33
29	18C213	Electric Motors	1.2	1.4	1.3	1.6			1.38
30	18C214	Electromagnetic Field Theory	1.2	1.3	1.5	1.8	1.5		1.46
31	18C215	Operational Amplifiers and field Theory	1.8	1.6	1.3	1.6			1.58
32	18C216	Electrical Machines Laboratory-2	2.5	2.5	2.5	2.5			2.50
33	18C217	Operational Amplifiers and Linear IC's Laboratory	3	3	3	3			3.00
34	18C301	Management and Entrepreneurship	2.3	1.9	2.3	2.1	2		2.12
35	18C302	Microcontroller	0.9	0.8	1.4	0.9			1.00
36	18C303	Power Electronics	1.6	1.3	1.6	1.5	1.5		1.50
37	18C304	Signals and Systems	1.7	1.9	1.1				1.57
38	18C305	ELECTRICAL MACHINE DESIGN	1.5	1.2	0.9				1.20
39	18C306	HIGH VOLTAGE ENGINEERING	1.7	1.2	1.2	1.4			1.38
40	18C307	Microcontroller Laboratory	2.5	2.4	2.4	2.4	2.5		2.44
41	18C308	Power Electronics Laboratory	1.9	1.9	1.9	1.9	1.9		1.90
42	18C309	Environmental Studies	2.5						
43	18C310	Control Systems	1.4	1.2	1.3	1.1	1.1		1.22
44	18C311	Power system Analysis -1	0.8	1.4	0.9				1.03
45	18C312	Digital Signal Processing	1.2	1.5	1				1.23
46	18C313	Electrical Vehicle Technology	2.3	2.2	2.2	2.2	2.2		2.22
47	18C314.1	Remote Sensing and GIS (OE)	1.8	1.8	1.6	1.9			

49	18C315	Control System Laboratory	2.8	2.8	2.8	2.8	2.8		2.80
50	18C316	Digital Signal Processing Laboratory	2.2	2.2	2.2	2.2	2.2		2.20
51	18C317	Mini Project	3	3	3	3	3	3	1.30
52	18C401	Power System Analysis-2	1.4	1.5	1.1	1.2			1.57
53	18C402	Power System Protection	1.8	1.2	1.7				1.80
54	18C403	Solar and Wind Energy	1.8	1.8	1.4	2.2			1.58
55	18C404	Utilization of Electrical Power	1.5	2	1.4	1.2	1.8		1.58
56	18C405.1	ARM Embedded Systems (OE)	1.5	2	1.4	1.2	1.8		2.50
58	18C406	Power System Simulation Laboratory	2.5	2.5	2.5	2.5	2.5		3.00
59	18C407	Relay and High Voltage Laboratory	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	1.9	1.8	2	1.7			1.85
62	18C410	Power System Planning	2.2	2.3	2	2	1.5		2.00
63	18C411	Project Work Phase II	3	3	3	3	3	3	3.00
64	18C412	Technical Seminar	3	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 [2020-24 Batch]**

Code	Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
18C101	Engineering Mathematics-1	1.91	1.91							1.9	1.9		1.9	1.9		1.9
18C102	Engineering Physics	2.6	2.6								2.6		2.6	2.6	2.6	
18C103	Basic Electrical Engineering	1.87	1.87					1.87			1.87		1.87	1.87		1.87
18C104	Elements of Civil Engineering and Mechanics	2.46	2.45	2.45		2.5	2.46	2.5	2.45		2.46		2.46	2.46	2.46	
18C105	Engineering Graphics			1.4		1.4	1.5	1.8	1.5	1.8	1.7	1.9	1.8	1.9	1.8	1.9
18C106	Engineering Physics Laboratory	2.6	2.6							2.6	2.6		2.6	2.6	2.6	
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	2.1									2.1		2.1			
18C109	Engineering Mathematics-2	1.26	1.36							1.46	1.45		1.9	1.9		2.1
18C110	Engineering Chemistry	1.44	1.44	1.44				1.44		1.43	1.45		1.44	1.5	1.36	1.48
18C111	Programming in C and Data Structures	2.4	2.2	2.3	2.1	2.2	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	2.75	2.75			2.75	2.75		2.75	2.75		2.75	2.75	2.8		2.8
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									2		2			
18C201	Engineering Mathematics-III	1.3	1.3					1.5					1.3	1.3		1.3
18C202	Electric Circuit Analysis	0.96	0.99	1.02	1.06	0.88	1.02			0.92	0.96	0.88	0.96	0.94	1.2	0.83
18C203	Transformers and Generators	1	1											1	1	1
18C204	Analog Electronics Circuits	1.78	1.73	1.73		1.73	1.73			1.73	1.73			1.73	1.73	1.73
18C205	Digital System Design	1.5	1.54	1.5	1.48	1.5			1.5	1.48			1.5	1.49	1.45	1.5
18C206	Electrical and Electronics Measurements	1.84	1.87	1.87		1.87	1.87	1.85	1.87		1.87	1.87	1.8	1.87		1.87
18C207	Electrical Machines Laboratory-I	2	2	2						2	2		1.67	2	2	2
18C208	Electronics Laboratory	2.32	2.11	2.11	1.93	2.32	2.42			2.32			1.93	2.32	2.32	2.32
18C209	Constitution of India, Professional Ethics and Human Rights						1.8		1.8				1.8			1.8
18C210	Engineering Mathematics-IV	1.4	1.4							1.5	1.5		1.4	1.4		1.4
18C211	Power Generation and Economics	1.78	1.6	1.83				1.83						1.76		
18C212	Transmission and Distribution	1.33	1.3	1.3						1.33	1.33		1.33	1.33		1.33
18C213	Electric Motors	1.38	1.38							1.38	1.38		1.38	1.38		1.38
18C214	Electromagnetic Field Theory	1.44	1.42											1.44		

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18C215	Operational Amplifiers and field Theory	1.45	1.59	1.45	1.6	1.6					1.54	1.54	1.62	1.52		
18C216	Electrical Machines Laboratory-2	2	2						2	2		2	2		2	
18C217	Operational Amplifiers and Linear IC's Laboratory	3	3	3					3	3		3	3		3	
18C301	Management and Entrepreneurship		2.3				2.1	2.3	2.17	2.06	2.07	2.09			2.09	
18C302	Microcontroller	1	1	1					1	1		1	1	1	1	
18C303	Power Electronics	1.51	1.48	1.5			1.47	1.53			1.48	1.6	1.46			
18C304	Signals and Systems	1.57	1.57		1.57				1.57	1.57		1.57	1.57		1.57	
18C305	ELECTRICAL MACHINE DESIGN	1.2	1.2	1.14	1.26	1.2			1.05	1.26			1.2	1.24	1.32	1.2
18C306	HIGH VOLTAGE ENGINEERING	1.38	1.32	1.2	1.2					1.38	1.38		1.38	1.38		1.38
18C307	Microcontroller Laboratory	2.43	2.43	2.43						2.43	2.43		2.43	2.43	2.43	2.43
18C308	Power Electronics Laboratory	1.9	1.9							1.9			1.9	1.9		1.9
18C309	Environmental Studies							1.4					1.8			1.8
18C310	Control Systems	1.24	1.23	1.23						1.25			1.2	1.24	1.1	
18C311	Power system Analysis-1	1.03	1.03	1.08		1.03							1.03	1.03	1.03	1.03
18C312	Digital Signal Processing	1.23	1.23	1						1.23				1.23		1.23
18C313	Electrical Vehicle Technology	2.22	2.21	2.2			2.22	2.23		2.2			2.22	2.22	2.2	2.22
18C314.1	Remote Sensing and GIS (OE)	1.78	1.78	1.78		1.78					1.78				1.78	1.78
18C315	Control System Laboratory	2.8	2.8	2.8		2.8				2.8	2.8		2.8	2.8	2.8	2.8
18C316	Digital Signal Processing Laboratory	2.2	2.2	2.2	2.2	2.2				2.2	2.2		2.2	2.2	2.2	2.2
18C317	Mini Project	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
18C401	Power System Analysis-2	1.3	1.3		1.3	1.3				1.3	1.3		1.3	1.3	1.3	1.4
18C402	Power System Protection	0.94	0.9	0.85	0.9	0	0	1.2		0.9			0.9	1.2	0.6	0.6
18C403	Solar and Wind Energy	1.8	1.8	1.8							1.8	1.8		1.8	1.8	
18C404	Utilization of Electrical Power	1.58	1.57	1.63						1.58	1.58		1.58	1.58		1.58
18C405.1	ARM Embedded Systems (OE)	1.58	1.57	1.63						1.58	1.58		1.58	1.58		1.58
18C406	Power System Simulation Laboratory	2.5	2.5	2.5										2.5	2.5	
18C407	Relay and High Voltage Laboratory	2.25	2.25							2.25	2.25		2.25	2.25		2.25
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	1.85	1.9							1.85	1.85			1.85	1.85	
18C410	Power System Planning	1.96	1.98				2	1.75				2.17	2.2	1.96		
18C411	Project Work Phase II	3	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
18C413	INTERNSHIP	3	3			3				3	3	3		3	3	3
	Average Attainment (Direct)	1.88	1.87	1.86	1.83	1.96	1.97	1.91	2.26	1.93	2.00	2.07	1.92	1.88	1.96	1.89
	Indirect Attainment	2.60	2.87	2.73	2.73	2.53	2.40	2.80	2.53	2.60	2.60	2.27	2.40	2.80	2.87	2.53
	Final (80% Direct+20% Indirect)	2.02	2.07	2.04	2.01	2.08	2.05	2.09	2.31	2.07	2.12	2.11	2.02	2.07	2.14	2.02
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
		67.5	69.0	67.9	66.9	69.2	68.4	69.6	77.1	68.9	70.8	70.3	67.2	68.9	71.3	67.2

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**Don Bosco Institute of Technology, Bengaluru**  
**Department of Computer Science & Engineering**  
**Direct Attainment of 2020-24 Batch**



**Achieved PO - PSO Attainment of All the Courses (GE+SE) for Batch 2020-2024**

CODE	Courses	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
18MAT11	C101	1.59	1.59														
18PHY12	C102	1.88	1.88							1.59	1.59		1.59				
18ELE13	C103	1.83	1.83								1.88		1.88				
18CIV14	C104	2.02	2.01	1.99							1.83		1.83				
18EGDL15	C105	2.20	2.00	2.18							2.01		2.01				
18PHY16	C106	2.84	2.84							2.20	2.10		2.24				
18ELE17	C107	2.90	2.90							2.84	2.84		2.84				
18EGH18	C108	2.24								2.90	2.90		2.90				
18MAT21	C201	2.13	2.13								2.23		2.23				
18CHE22	C202	2.07	2.06	2.06						2.13	2.13		2.13				
18CPS23	C203	2.81	2.81	2.83						2.05	2.07		2.06				
18ELN24	C204	2.68	2.69	2.68						2.80	2.80		2.81				
18ME25	C205	2.57	2.57	2.57							2.67		2.68				
18CHEL26	C206	2.47	2.47	2.47						2.47	2.47		2.47				
18CPL27	C207	2.68	2.68	2.68						2.68	2.68		2.68				
18EGH28	C208	2.43									2.43		2.43				
18MAT31	C301	2.33	2.33								2.33		2.33				
18CS32	C302	2.40	2.48	2.34	2.49	2.47				2.33	2.33		2.33	2.23			
18CS33	C303	2.42	2.42	2.42		2.42				2.36	2.39		2.41	2.26	2.32	2.34	
18CS34	C304	1.61	1.64	1.63	1.63	1.63					2.42		2.42	2.42	2.42	2.42	
18CS35	C305	2.36	2.48	2.34	2.49	2.47					1.63	1.60	-	1.63	1.63	1.65	
18CS36	C306	1.82	1.82	1.82						2.36	2.39		2.41	2.26	2.32	2.34	
18CSL37	C307	1.78	1.78	2.67							1.81	1.78	1.82	1.83	1.82	1.82	
18CSL38	C308	2.41	2.36	2.39	2.35	2.38	2.38	2.36		2.67	2.67		2.67	1.60	2.67	2.67	
18KVK39	C309										2.40		2.40	2.38	2.36	2.39	
18MAT41	C310	2.41	2.41								2.82		2.82				
18CS42	C401	2.38	2.38	2.38	2.38					2.41	2.41		2.41	2.23			
18CS43	C402	2.36	2.36		2.36						2.38		2.38	2.38		2.38	
18CS44	C403	2.20	2.60	1.80		0.80					2.36		2.36	2.36	2.36	2.36	
18CS45	C404	1.50	1.50	1.50	1.50					1.60	1.00		1.00	1.60	0.20	0.40	
18CS46	C405	2.30	2.30	2.30	2.30	2.30					1.50		1.50	1.50	1.50	1.50	
18CSL47	C406	2.93	2.93	2.93	2.93	2.93					2.30		2.30	2.30	2.30	2.33	
18CSL48	C407	2.21	2.21	2.22	2.20	2.20				2.93	2.93		2.93	2.93	2.93	2.93	
											2.21		2.21	2.22	2.28	2.22	2.22

18CS49	C808	1.30	1.30	1.30	2.95	2.83	2.97	1.30	3.00	2.96	2.95	2.95	1.30	2.95	3.00	2.95	1.30	3.00	2.95	3.00	2.95	3.00	2.96
18CS51	C801	2.94	2.94	2.95	1.72	1.72	1.40	1.00	1.00	1.72	1.72	1.72	1.30	1.72	1.64	1.47	1.88						
18CS52	C802	1.72	1.72	2.00	2.66	2.67																	
18CS53	C803	1.00	1.80	2.00	1.80	1.80	1.80																
18CS54	C804	2.66	2.63	2.66	2.66	2.67																	
18CS55	C805	1.80	1.80	1.80	1.80	1.80	1.80																
18CS56	C806	2.00	2.00	3.00	2.00	2.00	2.00																
18CS57	C807	2.45	2.45	2.45	2.45	2.45																	
18CS58	C808	2.00	1.00	1.00																			
18CS59	C809	2.00	2.30	1.30	1.67	1.67	2.50	2.00	2.00	1.80	1.80	2.30	1.00	1.80	0.00	2.00	2.00	1.30					
18CS61	C601	1.00	1.50	1.50	1.67	1.67																	
18CS62	C602	2.91	2.91	2.91	2.91	2.91																	
18CS63	C603	2.25	2.25	2.25	2.25	2.25																	
18CS64	C604	2.45	2.43	2.43	2.46	2.46	2.46																
18CS65	C605	2.80	2.80	2.50	2.90	2.80																	
18CS66	C606	3.00	2.00	2.00	2.00	1.00	2.00	1.00															
18CS67	C607	3.00	2.00	2.00	2.00	1.00	2.00	1.00															
18CS68	C608	2.58	2.58	2.58	2.58	2.58																	
18CS71	C701	2.80	2.80	2.50	2.90	2.80																	
18CS72	C702	2.37	2.36	2.36	2.47	2.47	2.47	2.33	2.33	2.33	2.33	2.37	2.57	2.36	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37
18CS74	C703	2.80	2.80	2.50	2.90	2.80																	
18CS745	C704	2.00	3.00	2.00																			
18CS734	C705	2.12	2.12	2.12	2.12	2.12																	
18CSL76	C706	3.00	2.30	2.25	2.50	2.50																	
18CS77	C707	2.93	2.93	2.93	2.92	2.92																	
18CS81	C801	3.00	2.20	2.40	3.00	3.00																	
18CS82	C802	2.30	2.30	2.30																			
18CS822	C803	2.70	2.70	2.70	2.70	2.70																	
18CS83	C803	2.70	2.70	2.70	2.70	2.70																	
18CS84	C804	2.70	2.70	2.7																			
18CS85	C805	2.70	2.70																				
Direct Attainment		106.70	105.32	91.32	67.76	65.85	24.37	31.58	32.42	44.32	81.52	22.99	88.43	84.90	80.53	81.45	19.64						
Indirect Attainment		2.62	2.57	2.64	2.65	2.69	2.65	2.73	2.67	2.64	2.65	2.73	2.76	2.81	2.69	2.72	2.67						
Total Attainment		2.38	2.35	2.35	2.47	2.29	2.45	2.45	2.47	2.41	2.36	2.22	2.35	2.35	2.33	2.31	2.5						

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**Attainment of Course Outcomes (2022-24)**

Code	Course Name	CO Attainment (2022-24 Batch)						Average
		CO1	CO2	CO3	CO4	CO5	CO6	
22MBA11	Principles of Management and Organisational Behaviour	1.5	1.5	1.8	1.4			1.55
22MBA12	Entrepreneurship Deveopment	2	2.3	2.3	2.2	1.3	1.1	1.86
22MBA13	Accounting for Managers	2.2	2.1	2				2.1
22MBA14	Statistics for Managers	1.4	1.1	1.5	1.8	1.2		1.4
22MBA15	Marketing Management	1.6		2.5	2.5			2.2
22MBA16	Business Communication	3	3	3	3			3
22MBA21	Human Resource Management	1.7	1.4	1.8	1.7	1.7		1.66
22MBA22	Financial Management	2.3	2	2.2	2.6	2.6		2.34
22MBA23	Research Methodology and IPR	3	3	3	3			3
22MBA24	Operations Research	2.1	2.1	1.7	1.7			1.9
22MBA25	Strategic Management	1.8	2	1.8	1.9			1.88
22MBA26	Managerial Economics	1.2	1.2	1.7	1.4			1.37
22MBA301	Logistics and Supply Chain Management	1.8	1.9	1.7	1.9			1.82
22MBA302	Information Technology for Managers	2.2	2.4	2.2	2.4			2.3
22MBAMM303	Consumer Behaviour	2	2.1	0.7	1.8			1.65
22MBAMM304	Sales and Retail Management	1.9	1.8	2.1	2.3	2.1		2.04
22MBAFM303	Strategic Cost Management	1.6	1.9	1	1.2			1.42
22MBAFM304	Security Analysis and Portfolio Management	3	3	3	1.9			2.72
22MBAHR303	Recruitment and Selection	2	2	2	2.2			2.05
22MBAHR304	Industrial Relations and Legislations	1.6	1.3	1.6	1.8			1.57
22MBABA303	Introduction to Python, Data and Control Systems	2.8	3	2.9	2.7	3		2.88
22MBABA304	Exploratory Data Analysis for Business	1.2	1.6	1.8	1.6			1.55
22MBA401	International Business	2.4	3	3	3	3		2.88
22MBA402	Innovation and Design Thinking	1.5	1.3	2.4				1.73
22MBAMM403	Strategic Brand Management	2.1	2.1	2.1	2.1			2.1

22MBAMM404	Integrated Marketing Communication	1.6	2.2	2.2	1.7	2.3		2
22MBAFM403	Global Financial Management	1.7	1.6	1.2	1.8			1.57
22MBAFM404	Mergers Acquisitions and CR	2.8	3	2.3	3	1.6	3	2.61
22MBAHR403	Conflict and Negotiation Management	2.3	2.1	1.9	2.4			2.17
22MBAHR404	Global HRM	2.2	1.7	2.6	2.3			2.2
22MBABA403	Machine Learning	1.5	1.7	1.8	1.7			1.67
22MBABA404	HR Analytics	2.5	2.4	2.6				2.5

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**PO PSO Attainment (2022-24)**

Sl no	Code	Course Name	PO and PSO Attainment (2022-24 Batch)												
			PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4			
1	22MBA11	Principles of Management and Organisational Behaviour	1.46	1.4	1.46	1.63	1.46		1.64	1.42	1.82	1.34			
2	22MBA12	Entrepreneurship Development	2.2	2.3	1.24	2.2	1.1	2.02	2.2	2.23	1.7				
3	22MBA13	Accounting for Managers	2.25				2.25	2.08	2.25	2.25	2.08				
4	22MBA14	Statistics for Managers	0.79	0.89	0.8	0.7	0.58		0.4	0.81	0.6	0.85			
5	22MBA15	Marketing Management	1.27			1.46	1.21	0.61	2.28	2.5					
6	22MBA16	Business Communication	3	3	3	3	3		3	3	3	3			
7	22MBA21	Human Resource Management	1.75	1.4	1.7	1.64	1.66	1.74	1.68	1.69	1.66				
8	22MBA22	Financial Management	2.55	2.21	2.43		2.82	2.82	2.55	2.21	2.82	2.63			
9	22MBA23	Research Methodology and IPR	1	3	1.18	3	1.5	1.8	3	3	1.2	3			
10	22MBA24	Operations Research	1.7	1.83	1.7	1.9	1.7		1.85	1.85	1.83	1.83			
11	22MBA25	Strategic Management	1.74		2.04		1.8		1.76	1.92	1.8				
12	22MBA26	Managerial Economics	0.84	1.3	1.24	1.54	1.24	1.11	1.24	0.77	0.66	1.36			
13	22MBA301	Logistics and Supply Chain Management	1.98	2.09	2.09	1.99	1.98		1.8	1.9	1.7	1.9			
14	22MBA302	Information Technology for Managers	2.15	2.22	2.35	2.21	2.35	2.19	2.26	2.21	2.22	2.29			
15	22MBAMM303	Consumer Behaviour	2.23	2.29	0.79			2.01	2.23	1.54		2.01			
16	22MBAMM304	Sales and Retail Management	1.29	1.46	1.26	1.49	1.96	1.39	1.88	2.02	1.1				
17	22MBAFM303	Strategic Cost Management	1.72	1.33		2.11		1.06	1.72	2.11	1.06	1.33			
18	22MBAFM304	Security Analysis and Portfolio Management	2.79	2.62	3				2.87	2.72	2.43				
19	22MBAHR303	Recruitment and Selection	1.96	1.92	2.01	2.03	1.92	1.98	1.99	1.98	1.99	1.96			
20	22MBAHR304	Industrial Relations and Legislations	1.78	1.45	1.7	1.71	1.72	1.72	1.71	1.71	1.63	1.87			
21	22MBABA303	Introduction to Python, Data and Control Systems	2.9	2.85	3	2.82	2.8	3	2.85	2.9	2.93	2.7			
22	22MBABA304	Exploratory Data Analysis for Business	1.69	1.84	1.81	1.81			1.76						
23	22MBA401	International Business	2.33	3	3	3	2.33	2.33	2.6	3	3	3			
24	22MBA402	Innovation and Design Thinking	1.5	0.5	0.53	1.44	1.5		1.32	1.2	1.95				
25	22MBAMM403	Strategic Brand Management	2.33		2.33		2.33	2.33	2.33	2.33		2.33			
26	22MBAMM404	Integrated Marketing Communication	2.27	2.27	1.91	2.3	2.1		2.27	2	2.3	2.3			



27	22MBAFM403	Global Financial Management	1.79	1.9	1.35	1.96		1.9	1.79	1.35	1.96	
28	22MBAFM404	Mergers Acquisitions and CR	2.49	2.23	2.37	2.53	2.59	2.64	2.46	2.7	2.18	
29	22MBAHR403	Conflict and Negotiation Management	2.27	2.08	2.12	2.3	2.34	2.11	2.22	2.23		
30	22MBAHR404	Global HRM	2.62	2.18	2.62	2.35		2.62	2.62	2.48	2.18	
31	22MBABA403	Machine Learning	1.46	1.7	1.7	1.77	1.46	1.64	1.7	1.82	1.7	
32	22MBABA404	HR Analytics	2.57	2.4		1.26	1.91	1.51	2.11	1.88		
		Average Attainment (Direct)	1.95	1.98	1.88	1.98	1.98	2.05	2.06	1.94	2.06	
		Indirect Attainment	0	0	0	0	0	0	0	0	0	
		Final (80% Direct + 20% Indirect)	1.56	1.584	1.504	1.584	1.584	1.64	1.648	1.552	1.648	
			PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4

*Munish Kumar*

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48	18C315	18EE653	Renewable energy resources	2.9	2.8	2.8				2.71	2.71	2.71	2.71		2.71	2.71	2.71			2.71	2.71	2.71	2.71	2.71
49	18C316	18CVL66	Software Application Laboratory	2.59	2.71	2.69	2.71			1.31	1.31	1.31		1.31		1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31
50	18C317	18CVL67	Environmental Engineering Laboratory	2.61	2.62	2.62	2.62	2.62		2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62
51	18C318	18CVL68	Extensive Survey Project/Camp	2.39	2.6	2.5	2.6	2.5		2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61
52	18C401	18CV71	Quality surveying and contract management	2.51	2.39	2.19	2.38	2.18		2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26
53	18C402	18CV72	Design of RCC and Steel Structures	1.58	1.78					1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
54	18C403	18CV732	Air pollution and control	2.29	2.19	2.01	2.39	2.39		2.19	2.2	2.19	2.17	2.16	2.16	2.16	2.16	2.16	2.16	2.16	2.16	2.19	2.19	2.02
55	18C404	18CV742	Design Concepts of Building Services	2.28	2.29	2.3	2.39			2.18	2.18	2.18	2.18		2.14	2.14		2.14	2.14		2.14	2.19	2.19	
56	18C405	18EE754	Electrical Energy Conservation and Auditing	1.58	1.58	1.99	1.82			1.36	1.38	1.34			1.34	1.34		1.34		1.32		1.35	1.34	1.42
57	18C406	18CVL76	Computer Aided Detailing of Structures	2.58	2.79					0.65	0.65	0.65	0.65	0.65			0.65	0.65	0.65		0.65	0.66	0.68	
58	18C407	18CVL77	Geotechnical engineering laboratory	2.38	2.3	2.3	2.39	2.1		2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36		2.36	2.36	2.36
59	18C408	18CVF78	Project work phase-1+ project work Seminar	2.99	2.99	2.99	2.89			2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.66	2.66
60	18C411	18CV81	Design of prestressed concrete	1.49	1.16	1.79	2.09	1.89		1.6	1.65	1.7	1.7	1.7	1.91	1.64	1.61	1.66	1.59	1.6	1.6	1.65	1.66	
61	18C412	18CV824	Rehabilitation & Retrofitting	1.89	1.42	1.6	2.6	1.9		1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
62	18C413	18CVF83	Project Work Phase - 2	3	3	2.99				3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89
63	18C414	18CVS84	Technical Seminar	3	2.89	3	2.8	2.99		2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.17	2.17	
64	18C415	18CVI85	Internship	3	2.89	3				2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.19	2.19

  
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## CO ATTAINMENT FOR 2020 to 2024 BATCH

SLNO	NBA COURSE CODE	COURSE CODE	COURSE NAME	CO1	CO2	CO3	CO4	CO5	CO6	SUM	Average
1	18C101	18MAT11	Calculus and linear algebra	1.68	1.68	1.68	1.15	1.15		7.34	1.468
2	18C102	18CHE12	Engineering Chemistry	1.245	1.15	1.39	0.69	1.18		5.655	1.13
3	18C103	18CPS13	C Programming for problem solving	0.79	0.79	0.78	0.79			3.15	0.79
4	18C104	18ELN14	Basic Electronics	0.79	1.29	1.58	1.38	1.28		6.32	1.58
5	18C105	18ME15	Elements of Mechanical Engineering	2.18	2.18	2.18				6.54	2.18
6	18C106	18CHEL16	Engineering Chemistry Laboratory	2.31	2.1	2.19	2.48	2.29		11.37	2.27
7	18C107	18CPL17	C Programming Laboratory	1.95	1.89	1.98	1.8			7.62	2
8	18C108	18EGH18	Technical English -1	1.59	1.59	1.19				4.37	1.46
9	18C111	18MAT21	Calculus and linear algebra	1.19	1.19	1.38	1.29	1.69		6.74	1.35
10	18C112	18PHY22	Engineering Physics	1.58	1.69	1.58	1.39	1.55		7.79	1.56
11	18C113	18ELE13	Basic Electrical Engineering	0.69	0.89	1.38				2.96	0.99
12	18C114	18CIV14	Elements of Civil Engg. & Mechanics	1.89	1.19	0.65	1.58	1.38		6.69	1.34
13	18C115	18EGDL15	Engineering Graphics	1.61	1.42	1.55				4.58	1.53
14	18C116	18PHYL16	Engg. Physics Lab.	2.9	2.8	2.89				8.59	2.86
15	18C117	18EEL17	Basic Electrical Engineering Laboratory	2.21	2.29	2.22	2.3			9.02	2.26
16	18C118	18EGH28	Technical english 2	1.48	1.59	1.28				4.35	1.45
17	18C201	18MAT31	Transform Calculus , Fourier series and numerical techniques	1.48	1.48	1.96	1.66	2.09		8.67	1.73
18	18C202	18CV32	Strength of Materials	1.91	1.52	1.49	1.86	1.58		8.36	1.67
19	18C203	18CV33	Fluid Mechanics	2.19	1.76	1.68	2.09	1.78		9.5	1.9
20	18C204	18CV34	Building Materials and Construction	2.1	2.1	1.49	1.49	1.79		8.97	1.79
21	18C205	18CV35	Basic Surveying	1.86	1.36	1.59	2.19			7	1.75
22	18C206	18CV36	Engineering Geology	2.2	2.1	2.19	2.2	1.99		10.68	2.14
23	18C207	18CVL37	Computer Aided Building planning and Drawing	2.21	2.29	2.39				6.89	2.30
24	18C208	18CVL38	Building Materials Testing Laboratory	2.59	2.69	2.29				7.57	2.52
25	18C209	18KKM39	Kannada Manasu	2.79	2.79	2.89				8.47	2.82
26	18C211	18MAT41	Complex analysis, probability and statistical Methods	2.51	2.19	2.49	2.49	2.48		12.16	2.43
27	18C212	18CV42	Analysis of Determinate Structures	1.79	2.2	2.38	2.2	2.2		10.77	2.15
28	18C213	18CV43	Applied Hydraulics	1.38	1.89	2.38	2.39	2.39		10.43	2.09
29	18C214	18CV44	Concrete Technology	2.38	2.29	2.39	2.22	2.99		12.27	2.45
30	18C215	18CV45	Advanced Surveying	2.29	2.29	2.29	2.29	2.29		11.45	2.29
31	18C216	18CV46	Water Supply and Treatment Engineering	2.29	2.22	2.31	2.22			9.04	2.26
32	18C217	18CVL47	Engineering Geology Laboratory	2.61	2.81	2.79	2.89	2.99		14.09	2.82
33	18C218	18CVL48	Fluid Mechanics Laboratory	2.79	2.81					5.6	2.8
34	18C219	18CPH49	Const. of India, Prof. Ethics & Human Rights	1.01	2.42	2.49				5.92	1.97
35	18C301	18CV51	Construction Management & Entrepreneurship	2.61	2.51	2.49	2.49			10.1	2.53
36	18C302	18CV52	Analysis of Indeterminate Structures	2.49	2.41	2.41	2.41	2.41		12.13	2.43
37	18C303	18CV53	Design of RC structural elements	2.41	2.41	2.29	2.41			9.52	2.38
38	18C304	18CV54	Basic Geotechnical Engineering	2.31	2.39	2.39	2.29	2.29		11.67	2.33
39	18C305	18CV55	Municipal and Industrial waste water	2.89	2.89	2.91	2.9	2.89		14.48	2.90
40	18C306	18CV56	Highway Engineering	2.39	2.39	2.39	2.39			9.56	2.39
41	18C307	18CVL57	Surveying Practice	2.89	2.89	2.89				8.67	2.89
42	18C308	18CVL58	Concrete and Highway Materials Laboratory	2.29	2.29	2.29	2.29	2.29		11.45	2.29
43	18C309	18CIV59	Environmental studies	2.38	2.59	2.41	2.73	2.59		12.7	2.54

44	18C311	18CV61	Design of Steel Structural Elements	2.39	2.39	2.39	2.39	2.39		11.95	2.39
45	18C312	18CV62	Applied Geotechnical Engineering	2.58	2.58	2.58	2.58	2.58		12.9	2.58
46	18C313	18CV63	Hydrology and irrigation Engineering	2.51	2.69	2.5	2.5	2.5		12.7	2.54
47	18C314	18CV642	Solid Waste Management	2.99	2.9	2.89				8.78	2.93
48	18C315	18EE653	Renewable energy resources	2.9	2.8	2.8				8.5	2.83
49	18C316	18CVL66	Software Application Laboratory	2.59	2.71	2.69	2.71			10.7	2.68
50	18C317	18CVL67	Environmental Engineering Laboratory	2.61	2.62	2.62	2.62	2.62		13.09	2.62
51	18C318	18CVL68	Extensive Survey Project/Camp	2.39	2.6	2.5	2.6	2.5		12.59	2.52
52	18C401	18CV71	Quality surveying and contract management	2.51	2.39	2.19	2.38	2.18		11.65	2.33
53	18C402	18CV72	Design of RCC and Steel Structures	1.58	1.78					3.36	1.68
54	18C403	18CV732	Air pollution and control	2.29	2.19	2.01	2.39	2.39		11.27	2.25
55	18C404	18CV742	Design Concepts of Building Services	2.28	2.29	2.3	2.39			9.26	2.32
56	18C405	18EE754	Electrical Energy Conservation and Auditing	1.58	1.58	1.99	1.82			6.97	1.74
57	18C406	18CVL76	Computer Aided Detailing of Structures	2.58	2.79					5.37	2.69
58	18C407	18CVL77	Geotechnical engineering laboratory	2.38	2.3	2.3	2.39	2.1		11.47	2.29
59	18C408	18CVP78	Project work phase-I+ project work Seminar	2.99	2.99	2.99	2.9			11.87	2.97
60	18C411	18CV81	Design of prestressed concrete	1.49	1.16	1.79	2.09	1.89		8.42	1.68
61	18C412	18CV824	Rehabilitation & Retrofitting	1.89	1.42	1.6	2.6	1.9		9.41	1.88
62	18C413	18CVP83	Project Work Phase - 2	3	3	2.99				9	3
63	18C414	18CVS84	Technical Seminar	3	3	3	3	3		15	3.00
64	18C415	18CVI85	Internship	3	2.89	3				9	3

**Number of subjects attained 70% and above: 36**

**Number of subjects attained between 60% to 70%: 05**

**Number of subjects attained between 50% to 60%: 11**

**Number of subjects attained below 50%: 10**


  
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**Attainment of Pos for 2020-2024 batch**

SLNO	SEMESTER	NBA COURSE CODE	COURSE CODE	COURSE NAME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
1	I	18C101	18MAT11	Calculus and linear algebra	1.49	1.49							1.48	1.48		1.5	
2		18C102	18CHE12	Engineering Chemistry	1.24	0.89	1.14		0.91	1.3				1.1			
3		18C103	18CPS13	C Programming for problem solving	1.41	1.41	1.41							1.41	1.41		1.41
4		18C104	18ELN14	Basic Electronics	1.28	1.29	1.29				1.29				1.29		1.29
5		18C105	18ME15	Elements of Mechanical Engineering	2.18	2.18	2.18			2.18	2.18				2.18		2.18
6		18C106	18CHEL16	Engineering Chemistry Laboratory	2.79				2.78	2.78				2.78	2.89		2.89
7		18C107	18CPL17	C Programming Laboratory	1.8	1.89	1.89										1.89
8		18C108	18EGH18	Technical English - 1										1.39	1.4		1.41
9	II	18C111	18MAT21	Calculus and linear algebra	1.36	1.36							1.36	1.36		1.36	
10		18C112	18PHY22	Engineering Physics	1.5	1.5								1.5		1.5	
11		18C113	18ELE13	Basic Electrical Engineering	0.99	1					0.89			0.99		0.99	
12		18C114	18CIV14	Elements of Civil Engg. & Mechanics	1.38	1.38	1.38		1.41	1.4	1.41	1.42		1.36		1.39	
13		18C115	18EGDL15	Engineering Graphics	1.46	1.42	1.46		1.45	1.58		1.41	1.42	1.48		1.48	
14		18C116	18PHYL16	Engg. Physics Lab.	2.18	2.18							2.18	2.18	2.18	2.18	
15		18C117	18ELEL17	Basic Electrical Engineering Laboratory	2.2	2.2					2.18			2.18		2.18	
16		18C118	18EGH28	Technical english 2										1.43	1.24		1.41
17	III	18C201	18MAT31	Transform Calculus , Fourier series and numerical techniques	1.71	1.71					1.71					1.71	
18		18C202	18CV32	Strength of Materials	1.58	1.58	1.58	1.62	1.51	1.5	1.64	1.54	1.56	1.56		1.56	
19		18C203	18CV33	Fluid Mechanics	1.85	1.85	1.85	1.85	1.85		1.85		1.85	1.85		1.85	
20		18C204	18CV34	Building Materials and Construction	1.72	1.68	1.68	1.73	1.41	1.71	1.5	1.7	1.65	1.7	1.7	1.69	
21		18C205	18CV35	Basic Surveying	1.72			2.01	1.84	1.76	1.8	1.86	1.9	1.7		1.7	
22		18C206	18CV36	Engineering Geology	2.05	2.08	2.08					2.08	2.08		2.08		
23		18C207	18CVL37	Computer Aided Building planning and Drawing	2.13	2.13	2.15		2.13	2.13	2.13	2.13	2.13	2.13		2.13	
24		18C208	18CVL38	Building Materials Testing Laboratory	2.29	2.28	2.28	2.39	2.39	2.28	2.35	2.27	2.29	2.29	2.29	2.29	
25		18C209	18KKM39	Kannada Manasu									2.89	2.89		2.89	
26	IV	18C211	18MAT41	Complex analysis, probability and statistical Methods	2.34	2.34	2.49				2.19					2.41	
27		18C212	18CV42	Analysis of Determinate Structures	2.09	2.09	2.09	2.09		2.09		2.09	2.09	2.09		2.09	
28		18C213	18CV43	Applied Hydraulics	1.94	1.99	1.94	1.82	1.94		1.94	2.12	1.92	1.92		1.92	
29		18C214	18CV44	Concrete Technology	2.55	2.59	2.99	2.99	2.99	2.59	2.56	2.58	2.59	2.59	2.56	2.57	
30		18C215	18CV45	Advanced Surveying	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	
31		18C216	18CV46	Water Supply and Treatment Engineering	0.89	2.85	0.74	0.92	0.89	0.89	0.7	0.82	0.91	0.84	0.9	0.85	

SLNO	SEMESTER	NBA COURSE CODE	COURSE CODE	COURSE NAME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
32		18C217	18CVL47	Engineering Geology Laboratory	2.79	2.79	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81		2.81
33		18C218	18CVL48	Fluid Mechanics Laboratory	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92		2.92
34		18C219	18CPH49	Const. of India, Prof. Ethics & Human Rights	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01
35	V	18C301	18CV51	Construction Management & Entrepreneurship	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49
36		18C302	18CV52	Analysis of Indeterminate Structures	2.41	2.41	2.41	2.41	2.41	2.41			2.41	2.41		2.41
37		18C303	18CV53	Design of RC structural elements	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89		0.89
38		18C304	18CV54	Basic Geotechnical Engineering	2.29	2.29	2.29	2.29	2.29	2.29	2.29		2.29	2.29		2.29
39		18C305	18CV55	Municipal and Industrial waste water	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89
40		18C306	18CV56	Highway Engineering	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39
41		18C307	18CVL57	Surveying Practice	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23
42		18C308	18CVL58	Concrete and Highway Materials Laboratory	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29		2.26
43		18C309	18CIV59	Environment studies	0.28	0.28	0.28	0.28	0.28	0.28	0.28			0.26	0.25	0.262
44	VI	18C311	18CV61	Design of Steel Structural Elements	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04		1.04
45		18C312	18CV62	Applied Geotechnical Engineering	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58		2.58
46		18C313	18CV63	Hydrology and irrigation Engineering	2.48	2.46	2.47	2.47	2.47	2.47	2.47		2.49		2.48	
47		18C314	18CV642	Solid Waste Management	1.35	1.35	1.35	1.35	1.35	1.35	1.35		1.35		1.35	
48		18C315	18EE653	Renewable energy resources	2.71	2.71	2.71	2.71		2.71	2.71	2.71			2.71	2.71
49		18C316	18CVL66	Software Application Laboratory	1.31	1.31	1.31		1.31			1.31	1.31	1.31	1.31	1.31
50		18C317	18CVL67	Environmental Engineering Laboratory	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62
51		18C318	18CVL68	Extensive Survey Project/Camp	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61
52	VII	18C401	18CV71	Quality surveying and contract management	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26
53		18C402	18CV72	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	18CV732	Air pollution and control	2.19	2.2	2.19	2.17	2.16	2.16	2.16	2.16	2.16	2.16		2.19
55		18C404	18CV742	Design Concepts of Building Services	2.18	2.18	2.18	2.18		2.14	2.14		2.14	2.14		2.14
56		18C405	18EE754	Electrical Energy Conservation and Auditing	1.36	1.38	1.34			1.34	1.34		1.34		1.32	
57		18C406	18CVL76	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	18CVL77	Geotechnical engineering laboratory	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36
59		18C408	18CVP78	Project work phase-1+ project work Seminar	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55
60	VIII	18C411	18CV81	Design of prestressed concrete	1.6	1.65	1.7	1.7	1.7	1.91	1.64	1.61	1.66	1.59	1.6	1.6
61		18C412	18CV824	Rehabilitation & Retrofitting	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
62		18C413	18CVP83	Project Work Phase - 2	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89
63		18C414	18CVS84	Technical Seminar	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19		2.19
64		18C415	18CVI85	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					117	115	102	84	86.5	91.6	93.1	82.9	99.6	111	48.8	118.45
Direct Attainment					1.89	1.91	1.92	2	1.92	1.99	1.94	1.93	1.95	1.87	1.95	1.91
Indirect Attainment					2.77	2.69	2.6	2.06	2.06	2.51	2.23	2.08	2.44	2.6	2.19	2.65
CO Attainment					2.07	2.07	2.06	2.01	1.95	2.1	2	1.96	2.05	2.02	2	2.06

  
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**Don Bosco Institute of Technology, Bangalore**  
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**Department of Civil Engineering**



### Attainment of PSOs for 2020-2024 Batch

SLNO	SEMESTER	NBA COURSE CODE	COURSE CODE	COURSE NAME	PSO1	PSO2	PSO3
1	I	18C101	18MAT11	Calculus and linear algebra	1.42	1.42	
2		18C102	18CHE12	Engineering Chemistry	1.28	1	1.08
3		18C103	18CPS13	C Programming for problem solving	1.2		0.69
4		18C104	18ELN14	Basic Electronics	1.29	1.29	
5		18C105	18ME15	Elements of Mechanical Engineering	2.18	2.18	
6		18C106	18CHEL16	Engineering Chemistry Laboratory	2.79		2.78
7		18C107	18CPL17	C Programming Laboratory	1.88	1.88	1.88
8		18C108	18EGH18	Technical English -1			
9	II	18C111	18MAT21	Calculus and linear algebra	1.44	1.42	
10		18C112	18PHY22	Engineering Physics	1.59	1.59	
11		18C113	18ELE13	Basic Electrical Engineering	0.81		1.1
12		18C114	18CIV14	Elements of Civil Engg. & Mechanics	1.39	1.38	
13		18C115	18EGDL15	Engineering Graphics	1.49	1.5	
14		18C116	18PHYL16	Engg. Physics Lab.	2.18	2.18	
15		18C117	18EEL17	Basic Electrical Engineering Laboratory	2.25		2.24
16		18C118	18EGH28	Technical english 2			
17	III	18C201	18MAT31	Transform Calculus , Fourier series and numerical techniques	1.89		
18		18C202	18CV32	Strength of Materials	1.62	1.62	
19		18C203	18CV33	Fluid Mechanics	1.89	1.89	
20		18C204	18CV34	Building Materials and Construction	1.69	1.79	
21		18C205	18CV35	Basic Surveying	1.7	1.7	
22		18C206	18CV36	Engineering Geology	2.06	2.08	
23		18C207	18CVL37	Computer Aided Building planning and Drawing	2.13	2.13	
24		18C208	18CVL38	Building Materials Testing Laboratory	2.28	2.28	
25		18C209	18KKM39	Kannada Manasu		2.89	
26	IV	18C211	18MAT41	Complex analysis, probability and statistical Methods			2.39
27		18C212	18CV42	Analysis of Determinate Structures	2.09	2.09	
28		18C213	18CV43	Applied Hydraulics	1.19	1.21	
29		18C214	18CV44	Concrete Technology	2.59	2.6	
30		18C215	18CV45	Advanced Surveying	1.99	1.12	
31		18C216	18CV46	Water Supply and Treatment Engineering	0.89	0.9	
32		18C217	18CVL47	Engineering Geology Laboratory	2.81	2.81	
33		18C218	18CVL48	Fluid Mechanics Laboratory	2.9	2.9	
34		18C219	18CPH49	Const. of India, Prof. Ethics & Human Rights	2.01	2.01	

SLNO	SEMESTER	NBA COURSE CODE	COURSE CODE	COURSE NAME	PSO1	PSO2	PSO3
35	V	18C301	18CV51	Construction Management & Entrepreneurship	2.49	2.49	
36		18C302	18CV52	Analysis of Indeterminate Structures	2.41	2.41	
37		18C303	18CV53	Design of RC structural elements	0.89	0.89	
38		18C304	18CV54	Basic Geotechnical Engineering	2.29	2.29	
39		18C305	18CV55	Municipal and Industrial waste water	2.89	2.89	
40		18C306	18CV56	Highway Engineering	2.39	2.39	
41		18C307	18CVL57	Surveying Practice	1.23	1.23	
42		18C308	18CVL58	Concrete and Highway Materials Laboratory	2.26	2.26	
43		18C309	18CIV59	Environmental studies	2.39	1.19	
44	VI	18C311	18CV61	Design of Steel Structural Elements	1.04	1.04	
45		18C312	18CV62	Applied Geotechnical Engineering	2.58	2.58	
46		18C313	18CV63	Hydrology and irrigation Engineering	2.48	2.49	
47		18C314	18CV642	Solid Waste Management	1.35	1.35	
48		18C315	18EE653	Renewable energy resources	2.71	2.71	2.71
49		18C316	18CVL66	Software Application Laboratory	1.31	1.31	
50		18C317	18CVL67	Environmental Engineering Laboratory	2.62	2.62	
51		18C318	18CVL68	Extensive Survey Project/Camp	2.61	2.61	
52	VII	18C401	18CV71	Quality surveying and contract management	2.29	2.3	
53		18C402	18CV72	Design of RCC and Steel Structures	1.4	1.4	
54		18C403	18CV732	Air pollution and control	2.19	2.02	
55		18C404	18CV742	Design Concepts of Building Services	2.19	2.19	
56		18C405	18EE754	Electrical Energy Conservation and Auditing	1.35	1.34	1.42
57		18C406	18CVL76	Computer Aided Detailing of Structures	0.66	0.68	
58		18C407	18CVL77	Geotechnical engineering laboratory	2.36	2.36	
59		18C408	18CVP78	Project work phase-I+ project work Seminar	2.66	2.66	
60	VIII	18C411	18CV81	Design of prestressed concrete	1.65	1.66	
61		18C412	18CV824	Rehabilitation & Retrofitting	1.8	1.8	
62		18C413	18CVP83	Project Work Phase - 2	3.89	3.89	
63		18C414	18CVS84	Technical Seminar	2.17	2.17	
64		18C415	18CVI85	Internship	2.19	2.19	
<b>Sum</b>					<b>117.66</b>	<b>109.27</b>	<b>16.29</b>
<b>Direct Attainment</b>					<b>1.96</b>	<b>1.95</b>	<b>1.81</b>
<b>Indirect Attainment</b>					<b>2.71</b>	<b>2.19</b>	
<b>CO Attainment</b>					<b>2.11</b>	<b>2.00</b>	

  
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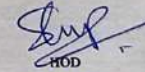


**ACHIEVED PO-PSO ATTAINMENT OF ALL COURSES (CIE+SEE) FOR BATCH 2020-2024**

Sl.No.	Course code	Subject Code	Subject Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
1	20C101	18MAT11	Calculus and Linear Algebra	2.44	2.44							2.44	2.44		2.43	2.44			
2	20C102	18CHE12	Engineering Chemistry	2.68	2.69	2.68				2.67					2.68	2.81		2.81	
3	20C103	18CPS13	C Programming for Problem Solving	2.57	2.57	2.57				2.57	2.57				2.57	2.57	2.57		
4	20C104	18ELN14	Basic Electronics	2.47	2.47	2.47			2.47	2.47			2.47	2.47	2.47	2.45		2.4	
5	20C105	18ME15	Elements of Mechanical Engineering	2.68	2.68	2.68						2.68	2.68		2.68	2.68	2.68	2.68	
6	20C106	18CHE16	Engineering Chemistry Laboratory	2.43									2.43		2.43	2.68	2.68	2.68	
7	20C107	18CPL17	Computer Programming Laboratory	2.68	2.68	2.68						2.68	2.68		2.68	2.68	2.68	2.68	
8	20C108	18EGH18	Technical English-I	2.24											2.23				
9	20C111	18MAT21	Advanced calculus and numerical methods	1.59	1.59							1.59	1.59		1.59	2.15			
10	20C112	18PHY22	Engineering Physics	1.88	1.88								1.88		1.88	1.85	1.83		
11	20C113	18ELE23	Basic Electrical Engineering	1.83	1.88					1.88				1.88	1.88	1.83		1.83	
12	20C114	18CTV24	Elements of Civil Engineering and Mechanics	2.02	2.01	1.99		2	1.94	2	1.93		2.01		2.01	2.01	2.01		
13	20C115	18EGDL25	Engineering Graphics	2.2	2	2.18		2.21	2.3			2	2.2	2.12	2.24	2.23	2.26		
14	20C116	18PHYL26	Engineering Physics Laboratory	2.84	2.84							2.84	2.84		2.84	2.87	2.84	2.85	
15	20C117	18ELE27	Basic Electrical Engineering Laboratory	2.9	2.9	2.9						2.9	2.9		2.9	2.9		2.9	
16	20C118	18EGH28	Technical English-II	2.24											2.23				
17	20C201	18MAT31	Transform Calculus, Fourier Series And Numerical Techniques	1.27	1.27							1.27	1.27		1.27	1.27	1.27		
18	20C202	18CS32	Data Structures and Applications	3	3	3	3	3	3						3	3	3	3	
19	20C203	18CS33	Analog and Digital Electronics	1.77	1.76	1.77	1.77	1.76	1.73	1.8			1.76	1.76	1.72	1.82	1.8	1.82	1.8
20	20C204	18CS34	Computer Organization	1.61	1.64	1.63	1.63						1.63	1.6		1.63	1.63	1.65	
21	20C205	18CS35	Software Engineering	1.57	1.57	1.57	1.57	1.57	0	0	0	1.61	0	1.57	1.57	1.57	1.56	1.55	1.57
22	20C206	18CS36	Discrete Mathematical Structures	1.82	1.82	1.82							1.8	1.78	1.82	1.83	1.82	1.82	
23	20C207	18CSL37	Analog and Digital Electronics Laboratory	2.78	2.78	2.67	2.33		2.67	2.67		2.67			2.6	2.67	2.67		
24	20C208	18CSL38	Data Structures Laboratory	2.8	2.68	2.39	2.35	2.38	2.38	2.36				2.8	2.8	2.38	2.336	2.39	
25	20C209	KVK39/18KAK	Vyavaharika Kannada (Kannada for communication)/Aadaliha Kannada (Kannada for Administration)										2.82						
26	20C211	18MAT41	Complex Analysis, Probability And Statistical Methods	2.41	2.41							2.41	2.41		2.41	2.23			
27	20C212	18CS42	Design and Analysis of Algorithms	2.38	2.38	2.38	2.38				2.38		2.38		2.38	2.38		2.38	
28	20C213	18CS43	Operating Systems	0.93	0.82	0.84	0.76	0.93	0.83	1.4			0.8	0.71	0.76	0.8	0.52	0.87	0.76
29	20C214	18CS44	Microcontroller and Embedded Systems	1.24	1.26	1.45	0.45	0.45							1.45	1.24	1.78	0.45	
30	20C215	18CS45	Object Oriented Concepts	1.88	1.88	1.86	1.86						1.88		1.88	1.87	1.86		
31	20C216	18CS46	Data Communication	1.42	1.42	1.53	1.53						1.42		1.42	1.47	1.53		
32	20C217	18CSL47	Design and Analysis of Algorithm Laboratory	2.93	2.93	2.93	2.93	2.93	3	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	
33	20C218	18CSL48	Microcontroller and Embedded Systems Laboratory	2.8	2.85	2.85	2.8	2.8		2.8	2.8	2.8		2.5	2.8	2.8	2.8		
34	20C219	18CPC49	Constitution of India, Professional Ethics and Cyber Law	1.3	1.3	1.3				1.3			1.3		1.3	1.3	1.3		
35	20C301	18CS51	Management and Entrepreneurship for IT Industry	2.15	2.18	2.17	2.12	2.24	2.15	2.24	2.15	2.24	2.15	2.19	2.18	2.2	2.22	2.17	2.15
36	20C302	18AI52	Python Programming	1.54	1.5	1.53	1.54						1.54		1.54	1.53	1.53		
37	20C303	18CS53	Database Management Systems	2.24	2.25	2.25	2.5	2.5	2.5	2.5	2.5	2	2.5		2.5	2.5	0.9		
38	20C304	18CS54	Automata theory and Computability	2.12	2.12	2.12	2.12	2.1				2.12			2.13	2.13	2.13	2.1	2.12
39	20C305	18AI55	Application Development using Python	1.91	1.91	1.91	1.91	1.91				1.91		1.91	1.91	1.91	1.9	1.91	1.91



40	20C306	18AI56	Mathematics for Machine Learning	1.77	1.77													1.77	1.77					1.77		1.77			1.71	
41	20C307	18AIL57	Artificial Intelligence Laboratory	2.8	2.8	2.8	2.8	2.8										2.8	2.8	2.8	2.8	2.75	2.7	2.75						
42	20C308	18CSL58	DBMS Laboratory with mini project	2.8	2.8	2.88	2.88	2.8										2.8	2.88	2.88	2.88	2.8	2.88	2.88						
43	20C309	18CTV59	Environmental Studies	2	2	2.3	1.3	2.5	1.5	2.8	2	1.8	1.8	2.3	1	1.8									1.8		2		1.3	
44	20C311	18AI61	Machine Learning	1.68	1.68	1.68	1.68	1.68										1.68				1.68	1.68	1.68	1.68	1.68			1.68	
45	20C312	18AI62	Digital Image Processing	2.08	2.07	2.1	2.17	2.07														2.15	2.15	2.12	2.14	2.02				
46	20C313	18AI63	Java for Mobile Applications	2.02	2.01	2.01	1.96	2.01	2.12	1.92	1.96	1.98	1.94	2.06	2.12	2.14	1.96	2.06	2											
47	20C314	18AI641	Natural Language Processing	2.5	2.4	2.5	2.5	2.4	1.34	1.34	1.4	1.45	1.3									1.3	1.35	1.35	1.33	1.45				
48	20C315	18CV655	Intelligent transportation systems	2.08	2.4	2.15	2.17	2.07														2.15	2.15	2.15	2.14	2.12				
49	20C316	18AIL66	Machine Learning Laboratory	3	2.5	2.5	2.5	2.5	2.6	2.6	2.6										2.8	2.8	2.5		2.5					
50	20C317	18AIL67	Digital Image Processing Laboratory with Mini project	3	2.5	2.5	2.5	2.5																						
51	20C318	18AIMP68	Mobile Application Development Laboratory	2.58	2.58	2.58		2.58														2.58	2.58	2.58	2.58	2.58	2.28	2.58		
52	20C401	18AI71	Advanced Artificial Intelligence	1.96	2.02	1.82	1.89	1.89														1.83	1.98	1.89	1.89	2.03	1.8			
53	20C402	18AI72	Advanced Machine Learning	2.5	2.5	2.5	1.8	1.8	1.8	1.8												2.5	2.5	1.47	1.5	1.5	1.5			
54	20C403	18AI731	Internet of Things	1.62	1.45	1.45	2.17	1.55	1.05	1.05	1.1	1.23	1.19									1.08	0.71	0.71	0.71	0.71				
55	20C404	18AI743	Semantic Web and Social Network	1.42	1.42	1.42	1.43	1.43														1.45	1.42	1.42	1.45	1.4	1.42	1.45		
56	20C405	18EE753	Electric vehicles	3	3	2.5	2.5	2.5														2.5	2.5	2.5	2.5				2.5	
57	20C406	18EE754	Energy conservation & audit	1.62	1.45	1.45	2.17	1.55	1.05	1.05	1.1	1.23	1.19									1.08	0.71	0.71	0.71	0.71				
58	20C407	18EC72	Arm embedded systems	1.62	1.45	1.45	2.17	1.55	1.05	1.05	1.2	1.23	1.19									1.08	0.71	1.1	1.1					
59	20C408	18AIL76	Artificial Intelligence and Machine Learning Laboratory	3	3	2	2	2	3	3	3	3										3		2		1				
60	20C409	18AIP77	Project Work Phase - 1	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	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	
61	20C410	18AIB1	Neural networks and deep learning	1.86	1.86	1.86	1.87	1.9														1.84		1.87	1.87	1.87	1.88	1.86		
62	20C411	18AI823	Robotic process automation design & development	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.54	2.53	2.53	2.54	2.53	2.53	2.54	2.53	2.53	2.54	2.53	2.53	2.53	2.53	2.53	2.53	2.53	
63	20C412	18AIP83	Project Work Phase -2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
64	20C413	18AIS84	Technical Seminar	2.63	2.64	2.63	2.64	2.64														2.63	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
65	20C414	18AIB85	Internship	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
<b>Total</b>				<b>142.53</b>	<b>134.09</b>	<b>116.63</b>	<b>90.08</b>	<b>84.93</b>	<b>54.48</b>	<b>64.71</b>	<b>53.20</b>	<b>80.51</b>	<b>104.98</b>	<b>49.15</b>	<b>129.70</b>	<b>124.28</b>	<b>99.29</b>	<b>99.61</b>	<b>32.89</b>											
<b>Direct Attainment</b>				<b>2.19277</b>	<b>2.0629</b>	<b>1.794308</b>	<b>1.3858</b>	<b>1.3066</b>	<b>0.83815</b>	<b>0.996</b>	<b>0.8185</b>	<b>1.239</b>	<b>1.6151</b>	<b>0.75615</b>	<b>1.99538</b>	<b>1.912</b>	<b>1.527477</b>	<b>1.532462</b>	<b>0.506</b>											
<b>InDirect Attainment</b>				<b>2.54545</b>	<b>2.5682</b>	<b>2.568182</b>	<b>2.5455</b>	<b>2.5455</b>	<b>2.61364</b>	<b>2.523</b>	<b>2.5909</b>	<b>2.614</b>	<b>2.5455</b>	<b>2.54545</b>	<b>2.59091</b>	<b>2.5</b>	<b>2.52727</b>	<b>2.568182</b>	<b>2.568182</b>											
<b>Total Attainment (80% DA + 20% IDA)</b>				<b>2.26331</b>	<b>2.164</b>	<b>1.949083</b>	<b>1.6178</b>	<b>1.5544</b>	<b>1.19325</b>	<b>1.301</b>	<b>1.173</b>	<b>1.514</b>	<b>1.8012</b>	<b>1.11401</b>	<b>2.11449</b>	<b>2.0296</b>	<b>1.726527</b>	<b>1.739606</b>	<b>0.918436</b>											

  
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