



# EXCEL ENGINEERING COLLEGE

(Autonomous)

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai  
Accredited by NBA(AERO,CSE,ECE&MECH), NAAC with "A" and Recognised by UGC (2f &12B)  
KOMARAPALAYAM - 637303

## DEPARTMENT OF INFORMATION TECHNOLOGY B.TECH IT B.TECH –IT- BATCH 2019-23

### CO ATTAINMENT

S.No	Semester	Course code	Subject code	Name of the subject	CO1	CO2	CO3	CO4	CO5	average
1	I	C101	HS8151	Communicative English	1.7	1.7	1.7	1.7	1.7	1.7
2		C102	MA8151	Engineering Mathematics - I	1.8	1.8	1.8	1.8	1.8	
3		C103	PH8151	Engineering Physics	1.5	1.5	1.5	1.5	1.5	
4		C104	CY8151	Engineering Chemistry	2.0	2.0	2.0	2.0	2.0	
5		C105	GE8151	Problem Solving and Python Programming	1.8	1.8	1.8	1.8	1.8	
6		C106	GE8152	Engineering Graphics	1.9	1.9	1.9	1.9	1.9	
7		C107	GE8161	Problem Solving and Python Programming Laboratory	3.0	3.0	3.0	3.0	3.0	
8		C108	BS8161	Physics and Chemistry Laboratory	3.0	3.0	3.0	3.0	3.0	
9		C109	HS8251	Technical English	1.9	1.9	1.9	1.9	1.9	
10		C110	MA8251	Engineering Mathematics - II	2.0	2.0	2.0	2.0	2.0	
11	II	C111	PH8252	Physics for Information Science	1.8	1.8	1.8	1.8	1.8	1.8
12		C112	BE8255	Basic Electrical, Electronics and Measurement Engineering	2.0	2.0	2.0	2.0	2.0	
13		C113	IT8201	Information Technology Essentials	1.8	1.8	1.8	1.8	1.8	
14		C114	CS8251	Programming in C	2.0	2.0	2.0	2.0	2.0	
15		C115	GE8261	Engineering Practices Laboratory	3.0	3.0	3.0	3.0	3.0	
16		C116	CS8261	C Programming Laboratory	3.0	3.0	3.0	3.0	3.0	
17		C117	IT8211	Information Technology Essentials Laboratory	3.0	3.0	3.0	3.0	3.0	
18		III	C201	MA8351	Discrete Mathematics	2.2	2.2	2.2	2.2	
19	C202		CS8351	Digital Principles and System Design	2.4	2.4	2.4	2.4	2.4	
20	C203		CS8391	Data Structures	2.4	2.4	2.4	2.4	2.4	
21	C204		CS8392	Object Oriented Programming	2.4	2.4	2.4	2.4	2.4	
22	C205		EC8394	Analog and Digital Communication	2.4	2.4	2.4	2.4	2.4	
23	C206		CS8381	Data Structures Laboratory	3.0	3.0	3.0	3.0	3.0	
24	C207		CS8383	Object Oriented Programming Laboratory	3.0	3.0	3.0	3.0	3.0	
25	C208		CS8382	Digital Systems Laboratory	3.0	3.0	3.0	3.0	3.0	

26		C209	HS8381	Interpersonal Skills/Listening & Speaking	3.0	3.0	3.0	3.0	3.0	3.0
27	IV	C210	MA8402	Probability and Queueing Theory	2.3	2.3	2.3	2.3	2.3	2.3
28		C211	CS8491	Computer Architecture	2.5	2.5	2.5	2.5	2.5	2.5
29		C212	CS8492	Database Management Systems	2.5	2.5	2.5	2.5	2.5	2.5
30		C213	CS8451	Design and Analysis of Algorithms	2.3	2.3	2.3	2.3	2.3	2.3
31		C214	CS8493	Operating Systems	2.3	2.3	2.3	2.3	2.3	2.3
32		C215	GE8291	Environmental Science and Engineering	2.4	2.4	2.4	2.4	2.4	2.4
33		C216	CS8481	Database Management Systems Laboratory	3.0	3.0	3.0	3.0	3.0	3.0
34		C217	CS8461	Operating Systems Laboratory	3.0	3.0	3.0	3.0	3.0	3.0
35		C218	HS8461	Advanced Reading and Writing	3.0	3.0	3.0	3.0	3.0	3.0
36		V	C301	MA8551	Algebra and Number Theory	2.8	2.8	2.8	2.8	2.8
37	C302		CS8591	Computer Networks	2.5	2.5	2.5	2.5	2.5	2.5
38	C303		EC8691	Microprocessors and Microcontrollers	2.7	2.7	2.7	2.7	2.7	2.7
39	C304		IT8501	Web Technology	2.7	2.7	2.7	2.7	2.7	2.7
40	C305		CS8494	Software Engineering	2.8	2.8	2.8	2.8	2.8	2.8
41	C306		OTL553	Telecommunication Network Management	2.6	2.6	2.6	2.6	2.6	2.6
42	C307		EC8681	Microprocessors and Microcontrollers Laboratory	3.0	3.0	3.0	3.0	3.0	3.0
43	C308		CS8581	Networks Laboratory	3.0	3.0	3.0	3.0	3.0	3.0
44	C309		IT8511	Web Technology Laboratory	3.0	3.0	3.0	3.0	3.0	3.0
45	VI		C310	IT8601	Computational Intelligence	2.7	2.7	2.7	2.7	2.7
46		C311	CS8592	Object Oriented Analysis and Design	2.6	2.6	2.6	2.6	2.6	2.6
47		C312	IT8602	Mobile Communication	2.7	2.7	2.7	2.7	2.7	2.7
48		C313	CS8091	Big Data Analytics	2.7	2.7	2.7	2.7	2.7	2.7
49		C314	CS8092	Computer Graphics and Multimedia	2.7	2.7	2.7	2.7	2.7	2.7
50		C315	IT8001	Information Storage and Management	2.7	2.7	2.7	2.7	2.7	2.7
51		C316	CS8662	Mobile Application Development Laboratory	3.0	3.0	3.0	3.0	3.0	3.0
52		C317	CS8582	Object Oriented Analysis and Design Laboratory	3.0	3.0	3.0	3.0	3.0	3.0
53		C318	IT8611	Mini Project	3.0	3.0	3.0	3.0	3.0	3.0
54		C319	HS8581	Professional Communication	3.0	3.0	3.0	3.0	3.0	3.0
55	VII	C401	MG8591	Principles of Management	2.7	2.7	2.7	2.7	2.7	2.7
56		C402	CS8792	Cryptography and Network Security	2.7	2.7	2.7	2.7	2.7	2.7

57		C403	CS8791	Cloud Computing	2.6	2.6	2.6	2.6	2.6	2.6
58		C404	OMF751	Lean Six Sigma	2.5	2.5	2.5	2.5	2.5	2.5
59		C405	-	IBM courseware	2.5	2.5	2.5	2.5	2.5	2.5
60		C406	CS8079	Human Computer Interaction	2.5	2.5	2.5	2.5	2.5	2.5
61		C407	IT8711	FOSS and Cloud Computing Laboratory	3.0	3.0	3.0	3.0	3.0	3.0
62		C408	IT8761	Security Laboratory	3.0	3.0	3.0	3.0	3.0	3.0
63	VIII	C409	IT8004	Network Management	2.6	2.6	2.6	2.6	2.6	2.6
64		C410	CS8080	Information Retrieval Techniques	2.6	2.6	2.6	2.6	2.6	2.6
65		C411	IT8811	Project Work	3.0	3.0	3.0	3.0	3.0	3.0



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KOMARAPALAYAM - 637303

DEPARTMENT OF INFORMATION TECHNOLOGY

B.TECH IT B.TECH –IT- BATCH 2019-23

CO-PO TARGET

SN O	COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	C101	-	-	-	-	-	-	-	-	3.00	3.00	2.00	2.00	-	-
2	C102	3.00	3.00	3.00	-	-	-	-	-	2.00	-	-	2.00	-	-
3	C103	3.00	3.00	3.00	-	-	-	2.00	-	-	-	-	1.00	-	-
4	C104	3.00	2.00	2.00	-	-	-	3.00	-	-	-	-	1.00	-	-
5	C105	3.00	2.00	2.00	-	3.00	-	-	-	-	-	-	2.00	2.00	1.00
6	C106	3.00	3.00	-	-	-	2.00	-	-	-	-	-	2.00	-	-
7	C107	3.00	3.00	3.00	-	3.00	-	-	-	-	-	-	2.00	-	-
8	C108	3.00	3.00	-	-	-	-	-	-	-	-	-	-	-	-
9	C109	-	-	-	-	-	-	-	-	3.00	3.00	2.00	2.00	-	-
10	C110	3.00	3.00	3.00	-	-	-	-	-	2.00	-	-	2.00	-	-
11	C111	3.00	3.00	2.00	-	-	-	2.00	-	-	-	-	2.00	-	-
12	C112	3.00	2.00	-	-	-	-	-	-	-	-	-	-	-	-
13	C113	3.00	3.00	3.00	-	3.00	-	-	-	-	2.00	1.00	2.00	2.00	1.00
14	C114	3.00	3.00	3.00	-	2.00	-	-	-	-	-	-	2.00	-	-
15	C115	3.00	3.00	-	-	-	3.00	-	-	-	-	-	1.00	-	-
16	C116	3.00	3.00	3.00	-	3.00	-	-	-	-	-	-	2.00	-	-
17	C117	3.00	3.00	3.00	-	3.00	-	-	-	-	2.00	2.00	2.00	-	-
18	C201	3.00	3.00	2.00	-	-	-	-	-	-	-	-	1.00	-	-
19	C202	3.00	3.00	3.00	-	-	-	-	-	-	-	-	-	-	-
20	C203	3.00	3.00	3.00	-	-	-	-	-	-	-	-	-	2.00	1.00
21	C204	2.00	2.00	3.00	-	3.00	-	-	-	-	-	-	-	2.00	1.00



48	C313	3.00	2.00	3.00	-	-	-	-	-	-	-	-	-	2.00	1.00
49	C314	3.00	3.00	3.00	3.00	-	2.00	-	-	-	-	-	-	2.00	2.00
50	C315	3.00	-	3.00	-	2.00	-	-	-	-	-	-	-	2.00	2.00
51	C316	2.00	2.00	-	3.00	-	-	-	-	-	-	-	-	2.00	2.00
52	C317	1.00	-	2.00	-	3.00	-	-	-	-	-	-	-	2.00	2.00
53	C318	3.00	3.00	3.00	2.00	3.00	-	-	-	-	-	-	-	2.00	3.00
54	C319	3.00	3.00	3.00	1.00	3.00	3.00	3.00	-	-	-	-	-	3.00	2.00
55	C401	-	-	-	-	-	-	-	2.00	2.00	3.00	3.00	2.00	-	-
56	C402	3.00	3.00	3.00	2.00	-	2.00	-	-	-	-	-	-	2.00	1.00
57	C403	2.00	3.00	3.00	2.00	-	2.00	-	-	-	-	-	-	2.00	2.00
58	C404	3.00	3.00	3.00	-	-	-	-	-	-	-	-	-	-	-
59	C405	3.00	3.00	3.00	-	-	2.00	2.00	-	-	-	-	-	-	-
60	C406	3.00	3.00	3.00	2.00	-	3.00	-	-	-	-	-	-	-	2.00
61	C407	2.00	3.00	3.00	2.00	3.00	2.00	-	-	-	-	-	-	2.00	2.00
62	C408	3.00	3.00	3.00	2.00	-	3.00	-	-	-	-	-	-	2.00	-
63	C409	-	-	-	-	-	-	-	3.00	-	-	-	3.00	-	-
64	C410	-	-	-	-	-	-	-	3.00	-	-	-	3.00	-	3.00
65	C411	3.00	3.00	3.00	3.00	3.00	2.00	2.00	1.00	3.00	3.00	3.00	2.00	3.00	
	Direct	2.89	2.51	2.69	2.36	2.64	2.31	2.43	2.25	2.63	2.78	1.88	1.91	2.03	1.56
	100% direct	2.88	2.50	2.71	2.36	2.62	2.33	2.40	2.25	2.66	2.75	1.86	1.99	2.03	1.58
	100 indirect	2.93	2.66	2.68	2.51	2.33	2.62	2.76	2.69	2.46	2.70	2.80	2.54	2.87	2.63
	80% direct	2.31	2.Y U00	2.17	1.89	2.10	1.78	1.75	1.45	2.13	2.20	1.49	1.60	1.62	1.26
	20% indirect	0.59	0.53	0.54	0.50	0.47	0.55	0.55	0.54	0.49	0.54	0.56	0.51	0.57	0.53
	100% attainment	2.89	2.53	2.70	2.39	2.56	2.33	2.30	1.99	2.62	2.74	2.05	2.10	2.20	1.79







<b>100% direct</b>	2.68	2.21	2.47	1.79	2.44	1.94	2.03	2.24	2.44	2.43	1.68	1.65	1.73	1.39
<b>100 indirect</b>	2.93	2.66	2.68	2.51	2.33	2.62	2.76	2.69	2.46	2.70	2.80	2.54	2.87	2.63
<b>80% direct</b>	2.15	1.77	1.97	1.43	1.95	1.78	1.75	1.45	1.95	1.94	1.35	1.32	1.38	1.11
<b>20% indirect</b>	0.59	0.53	0.54	0.50	0.47	0.55	0.55	0.54	0.49	0.54	0.56	0.51	0.57	0.53
<b>100% attainment</b>	2.73	2.30	2.51	1.93	2.41	2.33	2.30	1.99	2.44	2.48	1.91	1.83	1.96	1.64



## EXCEL ENGINEERING COLLEGE (Autonomous)

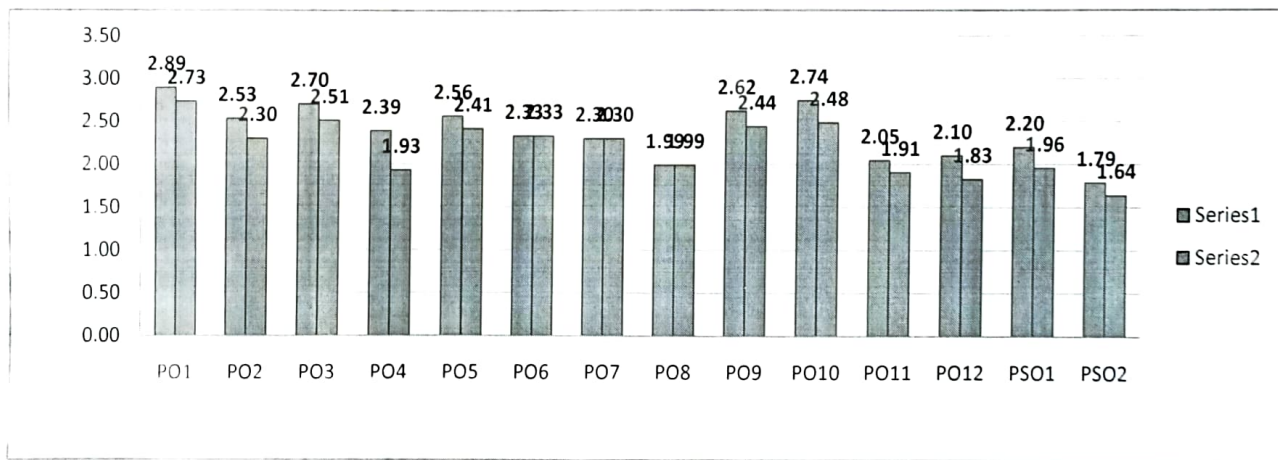
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### TARGET AND ATTAINMENT (2019-23 BATCH)

PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
TARGET	2.89	2.53	2.70	2.39	2.56	2.33	2.30	1.99	2.62	2.74	2.05			1.79
ATTAINED	2.73	2.30	2.51	1.93	2.41	2.33	2.30	1.99	2.44	2.48	1.91			1.64

GRAPH-2019-2023

ATTAINMENT GRAPH



#### INDIRECT ATTINMENT MEASURES

Attainment measures	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Student exit survey	3.00	2.65	2.78	2.25	2.78	2.51	2.68	2.54	2.67	2.89	2.84	2.89	2.87	2.54
Parent feedback survey	2.87	2.87	2.85	2.89	2.51	2.87	2.94	2.75	2.68	2.94	2.53	2.57	2.88	2.94
Alumni survey	2.92	2.94	2.81	2.32	2.61	2.78	2.51	2.88	2.62	2.41	2.82	2.99	2.87	2.78

Employer survey	2.97	2.91	2.62	2.15	2.22	2.31	2.41	2.75	2.61	2.35	2.91	2.82	2.99	2.92
Co-curricular, Extra-curricular	2.99	2.61	2.68	2.45	2.61	2.41	2.91	2.96	2.97	2.99	2.96	2.41	2.47	2.81
Placement training and value added course	2.91	2.99	2.78	2.82	2.41	2.99	2.91	2.99	2.41	2.81	2.76	2.51	2.71	2.67
Industrial Visit and In plant training	2.91	2.42	2.81	2.78	2.81	2.71	2.78	2.72	2.62	2.71	2.99	2.51	2.45	2.41
Indirect Attainment	2.94	2.77	2.76	2.52	2.56	2.65	2.73	2.80	2.65	2.73	2.83	2.67	2.75	2.72
20% of Indirect attainment	0.59	0.55	0.55	0.50	0.51	0.53	0.55	0.56	0.53	0.55	0.57	0.53	0.55	0.54

**DIRECT ATTAINMENT MEASURES**

Attainment measures	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PS O1	PS O2
Direct attainment	2.68	2.21	2.47	1.79	2.44	1.94	2.03	2.24	2.44	2.43	1.68	1.65	1.73	1.39
Indirect Attainment	2.93	2.66	2.68	2.51	2.33	2.62	2.76	2.69	2.46	2.70	2.80	2.54	2.87	2.63
Direct attainment 80%(A)	2.15	1.77	1.97	1.43	1.95	1.55	1.62	1.79	1.95	1.94	1.35	1.32	1.38	1.11
Indirect attainment 20%(B)	0.59	0.53	0.54	0.50	0.47	0.52	0.55	0.54	0.49	0.54	0.56	0.51	0.57	0.53
Overall attainment	2.73	2.30	2.51	1.93	2.41	2.07	2.18	2.33	2.44	2.48	1.91	1.83	1.96	1.64

  
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