



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 BIOMEDICAL ENGINEERING

2019-23 BATCH

CO Attainment

Course	CO1	CO2	CO3	CO4	CO5	Course Outcome Attainment Level
I Semester						
C101	3	3	3	3	3	3
C102	1.72	1.72	1.72	1.72	1.72	1.72
C103	1.72	1.72	1.72	1.72	1.72	1.72
C104	2	2	2	2	2	2
C105	2.36	2.36	2.36	2.36	2.36	2.36
C106	1.72	1.72	1.72	1.72	1.72	1.72
C107	3	3	3	3	3	3
C108	3	3	3	3	3	3
II Semester						
C109	3	3	3	3	3	3
C110	3	3	3	3	3	3
C111	3	3	3	3	3	3
C112	3	3	3	3	3	3
C113	3	3	3	3	3	3
C114	3	3	3	3	3	3
C115	3	3	3	3	3	3
C116	3	3	3	3	3	3
III Semester						
C201	3	3	3	3	3	3
C202	2.84	3	3	3	3	3
C203	3	3	3	3	3	3
C204	3	3	3	2.84	2.84	2.84
C205	3	3	3	3	3	3

C206	3	3	3	3	3	3
C207	3	3	3	3	3	3
C208	3	3	3	3	3	3
C209	3	3	3	3	3	3
IV Semester						
C210	3	3	3	3	3	3
C211	3	3	3	3	3	3
C212	2	2	1	1	1	1.4
C213	2	2	1	2	2	1.8
C214	3	3	3	2	3	2.8
C215	2	3	2	2	2	2.2
C216	3	3	3	3	3	3
C217	3	3	3	3	3	3
V Semester						
C301	3	3	3	3	3	3
C302	3	3	3	3	3	3
C303	3	3	3	3	3	3
C304	3	3	3	3	3	3
C305	3	3	3	3	3	3
C306	3	3	3	3	3	3
C307	3	3	3	3	3	3
C308	3	3	3	3	3	3
C309	3	3	3	3	3	3
VI Semester						
C310	2.36	2.36	2.36	3	2.36	2.49
C311	3	3	3	3	3	3
C312	2	2	2	2	2	2
C313	3.0	3.0	3.0	2.84	2.84	2.94
C314	3	3	3	3	3	3
C315	3	3	3	3	3	3
C316	3	3	3	3	3	3
C317	3	3	3	3	3	3
C318	3	3	3	3	3	3
C319	3	3	3	3	3	3
VII Semester						

C401	3	3	3	3	3	3
C402	3	3	3	3	2.84	3
C403	2.52	3	3	2.52	2.52	2.71
C404	3	3	3	3	3	3
C405	3	2	3	3	3	3
C406	3	3	3	3	3	3
C407	3	3	3	3	3	3
C408	3	3	3	3	3	3
VIII Semester						
C409	3	3	3	3	3	3
C410	3	3	2	3	3	3
C411	3	3	3	3	3	3


Academic Coordinator




HOD / BME





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KOMARAPALAYAM – 637303

DEPARTMENT OF BIOMEDICAL ENGINEERING

PO'S Target (2019-23 Batch)


Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
C101	1	1.67	1	1.5	1	1	1.33	1.5	1.2	1.5	1	1.67	-	-
C102	3	3	2.4	2.6	1.6	1.2	-	-	1.8	-	-	2	1.6	1
C103	2.6	1.25	1.33	1	1.5	1	1.5	1	-	1	-	1	-	-
C104	2	1.6	2	2	1.8	1.4	1.6	1	1.4	1.3	1.2	2.4	-	-
C105	3	3	3	3	2.8	2	2	-	-	1	-	1	3	1
C106	3	1.6	1.5	2	-	2	2	-	1.5	1	-	1.5	-	-
C107	3	3	3	3	3	2	2	-	-	1	2	1	-	-
C108	2.4	2	2.5	2	2	1.5	2.25	1	1.4	1	1.6	2.2	-	-
C109	2	1.67	1.75	2.67	1.5	1.5	2	1.4	1	2	1.33	1.5	-	-
C110	2.8	2.8	2.4	2.6	2	1.6	-	-	2	-	-	2.4	-	-
C111	2.2	1.5	2.2	2	2.3	1.6	1.5	1	-	1	-	2	-	-
C112	3	3	3	3	2	3	3	3	2	1	1	3	-	-
C113	2.8	2.6	2.2	2.2	2.75	2.75	-	-	2.75	-	2.75	2.4	2.6	2.6
C114	3	3	3	3	3	1	2	-	3	2.4	2	1.6	2	1
C115	1.5	2.5	2.67	-	1.25	-	-	1	-	-	1.25	1.8	-	-
C116	3	3	3	-	2.4	2	-	-	-	-	-	2.4	2.2	2.2
C201	2.4	2.2	2	2	2.2	1.8	2	1	1.6	2	1.4	2.4	-	2
C202	2	2.6	2.6	2.4	1.6	-	-	-	-	-	-	1.6	1	1
C203	1	1.25	1.33	1	3	3	3	1	-	1	-	1	3	2
C204	2.2	2.8	2.6	2.8	1.8	-	-	-	-	-	-	1	1	1

C205	3	3	3	3	2.8	2	2	-	-	1	-	1	2	1
C206	3	3	2	1	3	3	3	-	2	3	-	3	3	2
C207	3	3	3	3	3	2	2	-	-	1	2	1	3	2
C208	2.4	2	2.5	2	2	1.5	2.25	1	1.4	1	1.6	2.2	3	2
C209	2	2	2	3	2	2	2	1	1	2	1	2	1	0.02
C210	3	3	2	3	2	2	-	-	2	-	-	2	3	-
C211	2	2	2	2	3	2	1	1	-	1	-	2	1	2
C212	2	1	2	2	1	-	-	-	-	-	-	-	1.5	-
C213	2.4	2.2	2	2	2.2	1.8	2	1	1.6	2	1.4	2.4	1	2
C214	2	2	3	3	2	3	3	3	2	1	1	3	2.6	2.2
C215	2	2.8	2	1	2	-	-	-	2	-	-	1	2	2
C216	2.4	2	2	2.4	1.6	1.6	2	1.6	2.4	-	-	2.4	1	1
C217	3	2	2	-	2	-	-	-	2	-	-	-	2	1
C301	3	2.2	2.4	2	-	-	-	-	-	3	2.2	2.2	2	1
C302	3	3	2	2.4	2	1	1	-	-	-	2.4	2.6	3	2.2
C303	3	2	3	2	-	1	1	-	2	-	-	-	3	2
C304	3	2.8	2.8	2.4	2.6	1	1.2	1.4	1	1	1.4	2	2	1
C305	2	1.8	1.25	1	1	-	-	1	1	-	-	1	1	1
C306	2.40	1.00	1.00	1.00	1.00	2.00	1.00	1.40	-	-	1.00	1.60	1.8	1
C307	2.8	3	3	2.6	1	2	1	1.4	-	-	1	1.6	1.8	1
C308	-	-	3		2	-	-	-	3	-	1	-	3	2
C309	-	-	-	-	-	1	-	2	2	3	2	-	1	1
C310	3.00	3.00	3.00	2.00	2.00	1.00	-	-	-	-	-	1	2.00	1.00
C311	3	3	3	3	-	1	-	-	-	-	-	-	3	-
C312	2.8	2	2	3	-	2	-	2	-	-	-	-	3	2
C313	1.00	-	-	-	-	1.00	3.00	2.00	-	-	-	2.00	1.00	-
C314	1	-	-	-	1	1.2	1	1	2	1	1	1.2	3	2
C315	3	3	-	1.6	1.6		-	-	-	-	2.2	1.2	1	2

C316	3.0	3.0	3.0	3	1.6	2	-	-	-	-	2.2	1.2	2.8	2
C317	2.6	2.8	2.4	2.2	-	-	-	-	-	-	-	2	2	1
C318	2	3	2	2	3	2	1	1	3	2	2	2	2	2
C319	-	-	-	-	-	1	-	-	2	3	1.25	2.25	1	-
C401	3	2.8	3	3	-	-	-	-	-	-	-	-	3	-
C402	3	2.6	1.8	2	1.6	-	2.2	-	-	-	-	2	2	2
C403	2.20	1.50	2.00	-	2.50	-	-	-	1.50	-	-	-	1.80	1.60
C404	3	3	2	2	-	2	-	-	-	-	-	-	-	2
C405	3	3	2	-	2	1	-	-	2	-	2.4	2	3	2.2
C406	-	-	-	-	-	1	2	3	2	1	-	1	3	2
C407	-	-	2	2	3	1	1	1	2	-	2	1	3	2
C408	-	-	-	-	-	2	-	2	2	1	1	2	3	2
C409	1.00	1.00	1.00	1.00	-	2.00	3.00	2.00	-	1.00	-	2.00	2.00	2.00
C410	3	2	2	1.8	-	1	-	-	-	-	-	1	3	2
C411	-	3	2	2	2	-	-	-	3	3	3	2	3	2
Average	2.48	2.37	2.26	2.20	2.04	1.68	1.88	1.47	1.90	1.55	1.63	1.79	2.14	1.62


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PO'S Attainment (2019-23 Batch)


CO\PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
C101	1	1.67	1	1.5	1	1	1.33	1.5	1.2	1.5	1	1.67	-	-
C102	2	2	1	1	1	1	-	-	1	-	-	1	1.6	1
C103	1.49	0.72	0.76	0.57	0.86	0.57	0.86	0.57	-	0.57	-	0.57	-	-
C104	1.32	1.06	1.33	1.33	1.19	0.92	1.06	0.66	0.92	0.88	0.79	1.59	-	-
C105	2.36	2.36	2.36	2.36	2.2	1.57	1.57	-	-	0.8	-	0.8	3	1
C106	1.7	0.9	0.86	1.15	-	1.15	1.15	-	0.86	0.57	-	0.86	-	-
C107	3	3	3	3	3	2	2	-	-	1	2	1	-	-
C108	2.4	2	2.5	2	2	1.5	2.25	1	1.4	1	1.6	2.2	-	-
C109	2	1.67	1.75	2.67	1.5	1.5	2	1.4	1	2	1.33	1.5	-	-
C110	2.8	2.8	2.4	2.6	2	1.6	-	-	2	-	-	2.4	-	-
C111	2.2	1.5	2.2	2	2.3	1.6	1.5	1	-	1	-	2	-	-
C112	3	3	3	3	2	3	3	-	2	1	1	3	-	-
C113	2.8	2.6	2.2	2.2	2.8	2.8	-	-	2.8	-	2.8	2.4	2.6	2.6
C114	3	3	3	3	3	1	2	-	3	2.8	2	1.6	2	1
C115	1.5	2.5	2.67	-	1.25	-	-	1	-	-	1.25	1.8	-	-
C116	3	3	3	-	2.4	2	-	-	-	-	-	2.4	2.2	2.2
C201	2.4	2.2	2	2	2.2	1.8	2	1	1.6	2	1.4	2.4	-	2
C202	1.98	2.57	2.57	2.37	1.58	-	-	-	-	-	-	1.58	0.99	0.99
C203	1	1.25	1.33	1	3	3	3	1	-	1	-	1	3	2
C204	2.15	2.74	2.54	2.74	1.76	-	-	-	-	-	-	0.98	0.98	0.98
C205	3	3	3	3	2.8	2	2	-	-	1	-	1	2	1

Q06	3	3	2	1	3	3	3	-	2	3	-	3	3	2
Q07	3	3	3	3	3	2	2	-	-	1	2	1	3	2
Q08	2.4	2	2.5	2	2	1.5	2.25	1	1.4	1	1.6	2.2	3	2
Q09	2	2	2	3	2	2	2	1	1	2	1	2	1	0.02
Q10	3	3	2	3	2	2	-	-	2	-	-	2	3	-
C211	2	2	2	2	2	-	-	-	-	-	-	1.6	1	2
C212	2	1	2	2	1	1	1	-	-	2	2	2	1.5	-
C213	2.4	2.2	2	2	2.2	1.8	2	1	1.6	2	1.4	2.4	1	2
C214	2	2	3	3	2	3	3	3	2	1	1	3	2.6	2.2
C215	2	2.8	2	1	2	-	-	-	2	-	-	1	2	2
C216	2.4	2	2	2.4	1.6	1.6	2	1.6	2.4	-	-	2.4	1	1
C217	3	2	2	-	2	-	-	-	2	-	-	-	2	1
C301	3	2.2	2.4	2	-	-	-	-	-	3	2.2	2.2	1	1
C302	3	3	2	2.4	2	1	1	-	-	-	2.4	2.6	2.5	2.2
C303	3	2	3	2	-	1	1	-	2	-	-	-	2	2
C304	3	2.8	2.8	2.4	2.6	1	1.2	1.4	1	1	1.4	2	2	1
C305	2	1.8	1.25	1	1	-	-	1	1	-	-	1	1	1
C306	2.4	1	1	1	1	2	1	1.4	-	-	1	1.6	1.8	1
C307	2.8	3	3	2.6	1	2	1	1.4	-	-	1	1.6	1.8	1
C308	-	-	3	-	2	-	-	-	3	-	1	-	3	2
C309	-	-	-	-	-	1	-	2	2	3	2	-	1	1
C310	2.5	2.5	2.5	1.7	1.7	0.8	-	-	-	-	-	0.8	1.7	0.8
C311	3	3	3	3	-	1	-	-	-	-	-	-	2	-
C312	2.8	2	2	3	-	2	-	2	-	-	-	-	2	2
C313	0.98	-	-	-	-	0.98	2.94	1.96	-	-	-	1.96	0.98	-
C314	1	-	-	-	1	1.2	1	1	2	1	1	1.2	3	2
C315	3	3	-	1.6	1.6	-	-	-	-	-	2.2	1.2	1	2
C316	3	3	3	3	1.6	2	-	-	-	-	2.2	1.2	2.5	2

C317	2.6	2.8	2.4	2.2	-	-	-	-	-	-	-	2	2	1
C318	2	3	2	2	3	2	1	1	3	2	2	2	2	2
C319	-	-	-	-	-	1	-	-	2	3	1.25	2.25	1	-
C401	3	2.8	3	3	-	-	-	-	-	-	-	-	3	-
C402	3	2.6	1.8	2	1.6	-	2.2	-	-	-	-	2	2	2
C403	1.99	1.36	1.81	-	2.26	-	-	-	1.36	-	-	-	1.63	1.45
C404	3	3	2	2	-	2	-	-	-	-	-	-	-	2
C405	3	3	2	-	2	1	-	-	2	-	2.4	2	3	2.2
C406	-	-	-	-	-	1	2	3	2	1	-	1	3	1.5
C407	3	-	2	2	3	1	1	1	2	-	2	1	3	2
C408	-	-	-	-	-	2	-	2	2	1	1	2	3	2
C409	1.0	1.0	1.0	1.0	-	2.0	3.0	2.0	-	1.0	-	2.0	2.00	1.00
C410	3	2	2	1.8	-	1	-	-	-	-	-	1	2	2
C411	-	3	2	2	2	-	-	-	3	3	3	2	3	2
Direct Average	2.39	2.30	2.18	2.11	1.96	1.60	1.80	1.40	1.84	1.55	1.63	1.72	2.03	1.58


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PO's Target and Attainment (2019-23 batch)

POS	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
Target	2.48	2.37	2.26	2.20	2.04	1.68	1.88	1.47	1.90	1.55	1.63	1.79	2.14	1.62
Attained	2.39	2.30	2.18	2.11	1.96	1.60	1.80	1.40	1.84	1.55	1.63	1.72	2.03	1.58

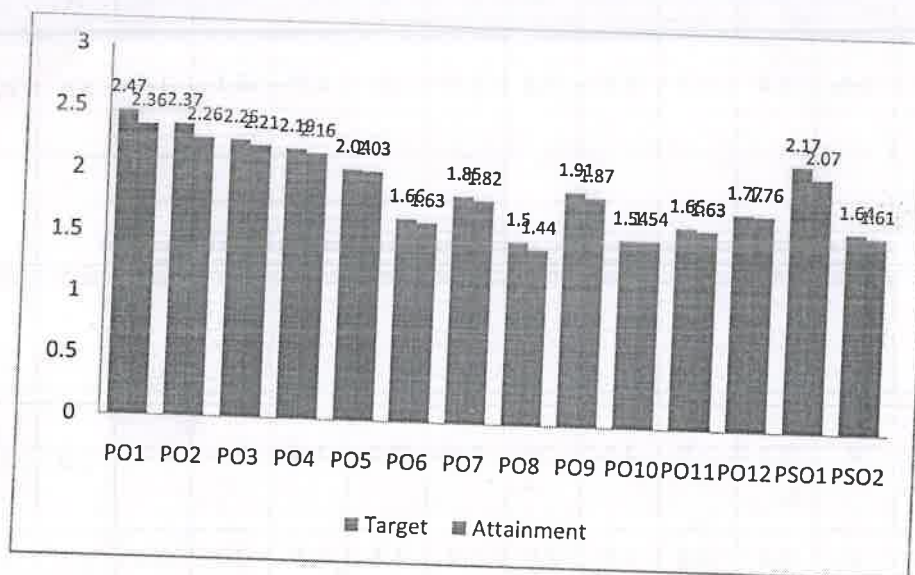
INDIRECT ATTAINMENT MEASUREMENT

S. No.	Activities	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
1	Industrial Visit Feedback	2	1.5	2.2	1.7	1.5	1.2	1.5	2	1.8	2.1	1.4	2.1	2.2	2.1
2	Co-Curricular & Extra Curricular Activities Feedback	2.2	2.4	2	2.5	2.5	2.2	2	2.2	2.2	2.5	2.5	2.5	2.5	2.5
3	Student Exit Survey	2.2	2	2.6	2.5	2.5	2	2.2	2.2	1.5	2.6	2.2	2.5	2.7	2.7
4	Employer Survey	2.5	2	2.5	2.3	2.5	2.5	2.2	1.5	2.5	2.7	2.1	2.2	2.7	2.6
5	Alumni Survey	2.5	2.5	2.7	3	2.4	2.2	2.2	2	2	2.1	2	2.3	2.8	2.6
6	Parent's Feedback	2	2.1	2.1	2.2	2.5	1.5	1.5	1.5	2.2	2.1	1.7	2.1	2.2	2.2

Average Indirect Attainment	2.23	2.08	2.35	2.37	2.32	1.93	1.93	1.90	2.03	2.35	1.98	2.28	2.52	2.22
20% Indirect Attainment	0.45	0.42	0.47	0.47	0.46	0.35	0.38	0.32	0.40	0.30	0.32	0.40	0.45	0.35

Direct and Indirect Attainment Measures

Attainment Measures	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
80% Direct attainment	1.91	1.84	1.74	1.69	1.57	1.28	1.44	1.12	1.47	1.24	1.31	1.38	1.62	1.26
20% Indirect Attainment	0.45	0.42	0.47	0.47	0.46	0.35	0.38	0.32	0.40	0.30	0.32	0.38	0.45	0.35
Total attainment	2.36	2.26	2.21	2.16	2.03	1.63	1.82	1.44	1.87	1.54	1.63	1.76	2.07	1.61



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