



Kalyani Charitable Trust's
Late G. N. Sapkal College of Engineering
Kalyani Hills, Anjaneri, Trimbakeshwar Road,
Nashik – 422 213



Department of First Year Engineering
CO/PO/PSO Overall Mapping
A.Y.2023-24, SEM-I

Table I: Program level Course-PO matrix for all the courses

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CA101	3	1.6	--	--	--	1	--	--	--	--	--	2
CB101	2.4	1.6	--	--	--	1	--	--	--	--	--	2
CC101	3	1.6	--	--	--	1	--	--	--	--	--	2
CD101	3	1.6	--	--	--	1	--	--	--	--	--	2
CC102	1.8	2	1.66	2.5	1.5	--	--	--	--	--	--	--
CD102	1.8	2	1.66	2.5	1.5	--	--	--	--	--	--	--
CA103	1.8	1.66	2.5	1.5	1.33	1.5	1.5	1.5	1.5	1.5	1.5	1.25
CB103	1.8	1.66	2.5	1.5	1.33	1.5	1.5	1.5	1.5	1.5	1.5	1.25
CC104	3	3	3	--	--	2	--	--	--	--	--	2
CD104	3	3	3	--	--	2	--	--	--	--	--	2
CA105	3	1.75	1.8	2	2	1.83	2	1.75	2	--	2	1.5
CB105	3	1.75	1.8	2	2	1.83	2	1.75	2	--	2	1.5
CA106	2.33	2.16	1.67	1	1.5	1.33	2	--	--	--	--	2
CB106	2.33	2.16	1.67	1	1.5	1.33	2	--	--	--	--	2
CC106	2.33	2.16	1.67	1	1.5	1.33	2	--	--	--	--	2
CD106	2.33	2.16	1.67	1	1.5	1.33	2	--	--	--	--	2
CC107	3	2.83	3	3	1	1.67	2	--	--	--	3	1
CD107	3	2.83	3	3	1	1.67	2	--	--	--	3	1
CA108	1.5	2	1.5	1.33	2	1.5	2	1.5	2	--	--	1
CB108	1.5	2	1.5	1.33	2	1.5	2	1.5	2	--	--	1
Target level overall POs	2.45	2.08	2.10	1.76	1.55	1.46	1.92	1.58	1.83	1.50	2.17	1.64



Table 2: Program level Course-PSO matrix for all the courses

Course	PSO1	PSO2	PSO3
CA101	--	--	--
CB101	--	--	--
CC101	--	--	--
CD101	--	--	--
CC102	--	--	--
CD102	--	--	--
CA103	--	--	--
CB103	--	--	--
CC104	--	--	--
CD104	--	--	--
CA105	--	--	--
CB105	--	--	--
CA106	--	--	--
CB106	--	--	--
CC106	--	--	--
CD106	--	--	--
CC107	--	--	--
CD107	--	--	--
CA108	--	--	--
CB108	--	--	--



Course Outcome Attainment

Course	Theory (%)						Oral / Practical (%)						Term Work (%)					
	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6
CA101	100%	100%	100%	100%	100%	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CB101	100%	100%	100%	100%	100%	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CC101	100%	100%	100%	100%	100%	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CD101	100%	100%	100%	100%	100%	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CC102	100%	100%	100%	100%	100%	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CD102	100%	100%	100%	100%	100%	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CA103	100%	100%	100%	100%	100%	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CB103	100%	100%	100%	100%	100%	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CC104	100%	100%	100%	100%	100%	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CD104	100%	100%	100%	100%	100%	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CA105	100%	100%	100%	100%	100%	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CB105	100%	100%	100%	100%	100%	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CA106	100%	100%	100%	100%	100%	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CB106	100%	100%	100%	100%	100%	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CC106	100%	100%	100%	100%	100%	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CD106	100%	100%	100%	100%	100%	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CC107	100%	100%	100%	100%	100%	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CD107	100%	100%	100%	100%	100%	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CA108	100%	100%	100%	100%	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CB108	100%	100%	100%	100%	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA



Internal Assessment:

Course	Unit Test (%)						Term work/PRACTICAL (%)					
	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6
CA101	100	100	100	100	92.31	--	100%	100%	100%	100%	100%	--
CB101	87.88	90.91	95.45	96.97	98.48	--	100%	100%	100%	100%	100%	--
CC101	96.72	96.72	100	100	96.72	--	100%	100%	100%	100%	100%	--
CD101	93.85	95.38	96.92	98.46	100	--	100%	100%	100%	100%	100%	--
CC102	84	80	74	73	91.8	95	100%	100%	100%	100%	100%	100%
CD102	87.69	63.08	87.69	64.62	78.46	64.62	100%	100%	100%	100%	100%	100%
CA103	95.38	95.38	96.92	96.92	93.85	93.85	100%	100%	100%	100%	100%	100%
CB103	90.91	90.91	90.91	89.39	93.94	92.42	100%	100%	100%	100%	100%	100%
CC104	95	84	100	88	90	94	100%	100%	100%	100%	100%	100%
CD104	100	100	100	100	100	100	100%	100%	100%	100%	100%	100%
CA105	67.69	67.69	100	100	98.46	98.46	100%	100%	100%	100%	100%	100%
CB105	75.76	75.76	96.97	96.97	84.85	84.85	100%	100%	100%	100%	100%	100%
CA106	95.38	100	92.31	98.46	100	100	100%	100%	100%	100%	100%	100%
CB106	95.45	100	89.39	96.97	96.97	96.97	100%	100%	100%	100%	100%	100%
CC106	92.31	92.31	92.31	93.85	95.38	95.38	100%	100%	100%	100%	100%	100%
CD106	95.38	98.46	95.38	100	96.92	95.38	100%	100%	100%	100%	100%	100%
CC107	96.72	100	96.72	100	100	100	100%	100%	100%	100%	100%	100%
CD107	100	100	100	100	100	100	100%	100%	100%	100%	100%	100%
CA108	100	100	100	100	--	--	100%	100%	100%	100%	--	--
CB108	100	100	98.48	90.91	--	--	100%	100%	100%	100%	--	--



Indirect Assessment:

Course	Course Exit Survey (%)					
	CO1	CO2	CO3	CO4	CO5	CO6
CA101	95	92.31	89.23	98	100	--
CB101	94	90.91	87.88	97	98	--
CC101	89	91.8	95.08	98	97	--
CD101	95	92.31	89.23	98	100	--
CC102	95	92.31	89.23	98	100	100
CD102	94	92.31	89.23	85	91	97
CA103	95	95	97	97	94	94
CB103	78	78	78	79	78	78
CC104	92	82	86	80	94	90
CD104	95	92	89	98.4	100	100
CA105	88	83.08	89.23	95	98	89.23
CB105	83	87.88	81.82	95	79	82
CA106	95	93.85	89.23	97	100	100
CB106	100	100	100	100	100	100
CC106	95	93.85	89.23	97	100	100
CD106	100	100	100	100	100	100
CC107	100	98	99	100	100	100
CD107	96.87	93.75	90.63	98.43	100	100
CA108	92	92.31	86.15	97	--	--
CB108	94	91	87	97	--	--



Overall CO Attainment A.Y 2023-24

Course	Direct CO		Indirect CO	Overall CO
	External	Internal		
CA101	3	3	3	3
CB101	3	3	3	3
CC101	3	3	3	3
CD101	3	3	3	3
CC102	3	3	3	3
CD102	3	3	3	3
CA103	3	3	3	3
CB103	3	3	3	3
CC104	3	3	3	3
CD104	3	3	3	3
CA105	1	3	3	1.56
CB105	1	3	3	1.56
CA106	2	3	3	2.28
CB106	3	3	3	3
CC106	2	3	3	2.28
CD106	3	3	3	3
CC107	2	3	3	2.28
CD107	2	3	3	2.28
CA108	3	3	3	3
CB108	3	3	3	3



Table: 3 PO attainment values

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CA101	3	1.6	--	--	--	1	--	--	--	--	--	2
CB101	2.4	1.6	--	--	--	1	--	--	--	--	--	2
CC101	3	1.6	--	--	--	1	--	--	--	--	--	2
CD101	3	1.6	--	--	--	1	--	--	--	--	--	2
CC102	1.8	2	1.66	2.5	1.5	--	--	--	--	--	--	--
CD102	1.8	2	1.66	2.5	1.5	--	--	--	--	--	--	--
CA103	1.8	1.66	2.5	1.5	1.33	1.5	1.5	1.5	1.5	1.5	1.5	1.25
CB103	1.8	1.66	2.5	1.5	1.33	1.5	1.5	1.5	1.5	1.5	1.5	1.25
CC104	3	3	3	--	--	2	--	--	--	--	--	2
CD104	3	3	3	--	--	2	--	--	--	--	--	2
CA105	3	1.75	1.8	2	2	1.83	2	1.75	2	--	2	1.5
CB105	3	1.75	1.8	2	2	1.83	2	1.75	2	--	2	1.5
CA106	2.33	2.16	1.67	1	1.5	1.33	2	--	--	--	--	2
CB106	2.33	2.16	1.67	1	1.5	1.33	2	--	--	--	--	2
CC106	2.33	2.16	1.67	1	1.5	1.33	2	--	--	--	--	2
CD106	2.33	2.16	1.67	1	1.5	1.33	2	--	--	--	--	2
CC107	3	2.83	3	3	1	1.67	2	--	--	--	--	3
CD107	3	2.83	3	3	1	1.67	2	--	--	--	--	3
CA108	1.5	2	1.5	1.33	2	1.5	2	1.5	2	--	--	1
CB108	1.5	2	1.5	1.33	2	1.5	2	1.5	2	--	--	1
Direct PO Attainment	2.45	2.08	2.10	1.76	1.55	1.46	1.92	1.58	1.83	1.50	2.17	1.64
Indirect PO Attainment	--	--	--	--	--	--	--	--	--	--	--	--
Overall PO Attainment	--	--	--	--	--	--	--	--	--	--	--	--



Table: 4 PSO attainment values

Course	PSO1	PSO2	PSO3
CA101	--	--	--
CB101	--	--	--
CC101	--	--	--
CD101	--	--	--
CC102	--	--	--
CD102	--	--	--
CA103	--	--	--
CB103	--	--	--
CC104	--	--	--
CD104	--	--	--
CA105	--	--	--
CB105	--	--	--
CA106	--	--	--
CB106	--	--	--
CC106	--	--	--
CD106	--	--	--
CC107	--	--	--
CD107	--	--	--
CA108	--	--	--
CB108	--	--	--
Indirect PSO Attainment	--	--	--
Overall PSO Attainment	--	--	--

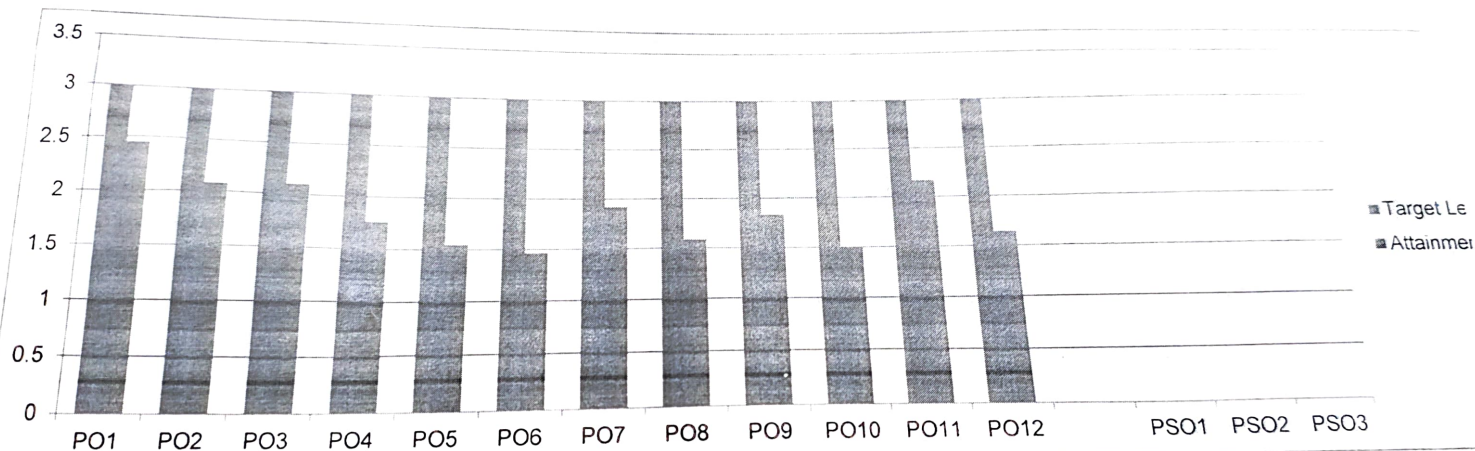


F.E. COMMON(2019 Course)

Sr. No.	Course/ Subject	Course Code Number
1	Engineering Mathematics-I	CA101
2	Engineering Mathematics-I	CB101
3	Engineering Mathematics-I	CC101
4	Engineering Mathematics-I	CD101
5	Engineering Physics	CC102
6	Engineering Physics	CD102
7	Engineering Chemistry	CA103
8	Engineering Chemistry	CB103
9	Basic Electronics Engineering	CC104
10	Basic Electronics Engineering	CD104
11	Basic Electrical Engineering	CA105
12	Basic Electrical Engineering	CB105
13	System in Mechanical Engineering	CA106
14	System in Mechanical Engineering	CB106
15	System in Mechanical Engineering	CC106
16	System in Mechanical Engineering	CD106
17	Engineering Mechanics	CC107
18	Engineering Mechanics	CD107
19	Programming & Problem Solving	CA108
20	Programming & Problem Solving	CB108



	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO1	PSO2
Target Level	3	3	3	3	3	3	3	3	3	3	3	3			
Attainment	2.45	2.08	2.10	1.76	1.55	1.46	1.92	1.58	1.83	1.50	2.17	1.64		--	--



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