				Surprise Test (Weight						
S.No	Roll No.	REGD. NO	Name	1	2	3	4	5	6	7
			Maximum Marks	2	2	2	2	2	2	2
			CO	1	1	1	1	2	2	2
1	2202001	2201287001	A SNEHA	2	2	2	2	2	2	2
2	2202002	2201287002	ABDUL GAFFAR ANSARI	1	1	1	1	2	2	2
3	2202003	2201287003	ABHIJEET SWAIN	1	1	1	1	0	1	1
4	2202004	2201287004	ABHIJEET SWAIN	2	1	2	1	2	1	2
5	2202005	2201287005	ABHILIPSA SINGH	2	2	2	2	2	2	2
6	2202006	2201287007	ABHISEK SAMANTARAY	1	1	1	1	2	2	2
7	2202007	2201287009	ABHISHEK PRADHAN	2	2	2	2	2	2	2
8	2202008	2201287010	ABHISHEK RAJ	2	2	1	1	2	1	2
9	2202009	2201287011	ABHISHEK RAJ SINGH	2	2	2	2	2	2	2
10	2202010	2201287012	ABHISHEK SAHU	1	1	2	2	1	2	2
11	2202012	2201287014	ABINASH BARIK	2	2	1	1	2	2	1
12	2202013	2201287015	ABINASH DAS	2	1	1	2	2	1	1
13	2202014	2201287016	ABINASH KUMAR PANDA	2	2	2	2	2	2	2
14	2202015	2201287017	ADARSH KUMAR DASH	2	2	2	2	2	2	2
15	2202016	2201287019	ADYASA NAYAK	1	1	1	1	2	2	2
16	2202017	2201287020	ADYASHA JENA	2	2	2	2	2	2	2
17	2202018	2201287021	AJIT KUMAR SAHOO	1	2	2	1	1	2	2
18	2202019	2201287023	AKASH PRADHAN	2	2	1	1	1	1	2
19	2202020	2201287022	AKASH PRADHAN	2	2	2	1	1	2	2
20	2202021	2201287024	AKSHAT SINGH	2	2	2	2	2	2	2
21	2202022	2201287025	RAUTARAY	2	2	2	2	2	2	2
22	2202023	2201287026	AMAN ASISH PATRA	2	1	2	2	1	1	2
23	2202024	2201287027	AMAN KUMAR BEHURA	1	2	2	1	1	2	2
24	2202025	2201287029	AMIT KUMAR SAHOO	1	1	1	1	2	2	2
25	2202026	2201287030	AMITAV PUSTY	2	2	2	2	2	2	2
26	2202027	2201287031	AMIYA RANJAN PARIDA	2	2	2	2	2	2	2
27	2202028	2201287032	AMLAN KUMAR SA	2	2	2	2	2	2	2
28	2202029	2201287033	ANAND RAJ	2	2	2	2	2	2	2
29	2202030	2201287034	ANIL PARIDA	1	2	2	1	1	2	2
30	2202031	2201287035	ANIMESH JENA	1	1	0	1	1	1	1
31	2202032	2201287036	ANISH KUMAR RAY	2	2	2	2	2	2	2
32	2202034	2201287037	ANKIT KUMAR	1	1	1	1	2	2	2

33	2202035	2201287039	ANKITA MAHALIK	2	2	2	2	2	2	2
34	2202037	2201287041	ANSHUMAN SARANGI	2	2	2	2	2	2	2
35	2202038	2201287042	ANSUMAN NAYAK	2	2	2	2	2	2	2
36	2202039	2201287043	ARINDAM DEY	2	2	2	2	2	2	2
37	2202040	2201287044	ARMAN RAUT	2	2	1	1	1	1	2
38	2202041	2201287045	ASHIS KUMAR BEHERA	2	2	2	2	2	2	2
39	2202042	2201287046	ASHISH KUMAR BEHERA	2	2	2	2	2	2	2
40	2202043	2201287047	ASHISH KUMAR DUBEY	1	1	2	2	2	1	2
41	2202044	2201287048	ASHUTOSH KUMAR JHA	2	2	2	2	2	2	2
42	2202045	2201287049	ASIMA OJHA	2	2	2	2	2	2	2
43	2202046	2201287050	ASISH PRADHAN	1	2	2	1	2	1	1
44	2202047	2201287051	ASTHA ANJALI	2	1	1	2	2	2	1
45	2202048	2201287052	AUROPRAKASH BAL	2	1	2	2	1	1	2
46	2202049	2201287053	AVISHEK MOHARANA	1	2	1	2	1	2	2
47	2202050	2201287054	AYUSH BARIK	1	0	1	1	1	1	1
48	2202051	2201287055	AYUSH KUMAR KHATRI	1	2	2	1	2	2	1
49	2202052	2201287056	AYUSHMAN PANDA	2	2	2	2	2	2	2
50	2202053	2201287057	BADAL KUMAR SAHOO	2	2	2	2	2	2	2
51	2202054	2201287058	MOHAPATRA	2	2	1	1	1	1	2
52	2202055	2201287059	BALADITYA DAS	2	2	2	2	2	2	2
53	2202056	2201287060	BHOOMIKA MAHANTA	2	2	2	2	2	2	2
54	2202057	2201287061	MOHARANA	1	1	2	2	2	2	1
55	2202058	2201287062	BIDYASAGAR NAYAK	2	2	2	2	2	2	2
56	2202059	2201287063	BIKAS DASH	2	2	1	1	2	2	1
57	2202060	2201287064	BIKASH KUMAR SAHOO	2	2	2	2	2	2	2
58	2202061	2201287065	BISHAKHA BHARTI	2	2	1	1	2	2	1
59	2202062	2201287066	MALLICK	2	2	2	2	2	2	2
60	2202063	2201287067	BISWA RANJAN DASH	2	2	2	2	2	2	2
61	2202064	2201287068	BISWAJIT MOHAPATRA	2	2	2	2	2	2	2
62	2202065	2201287069	MOHANTA	2	2	2	2	2	2	2
63	2202066	2201287070	D LIKHIT	1	1	2	2	2	2	1
64	2202067	2201287071	DEBASHISH PATRI	2	2	2	2	2	2	2
65	2202068	2201287072	DEBASISH DAS	2	2	2	2	2	2	2
66	2202069	2201287073	DEEPAK GUPTA	2	2	2	2	2	2	2
67	2202070	2201287074	DEEPSIKHA SINGH	2	2	2	2	2	2	2
68	2202071	2201287075	DHARMANANDA BARAL	2	2	2	2	2	2	2
69	2202072	2201287076	DIBYA RANJAN NAYAK	2	2	2	2	2	2	2
70	2202073	2201287077	DIBYA RANJAN PATNAIK	2	2	2	2	2	2	2
71	2202076	2201287080	DURGAMADHABA SAHOO	1	1	1	1	1	1	1
72	2202077	2201287081	GAURAV PANDEY	2	1	2	2	1	1	2
73	2202078	2201287083	HARSH BHARTI	2	1	1	2	1	1	2
74	2202079	2201287084	HARSH KUMAR	2	2	1	1	2	2	1
75	2202080	2201287085	MOHANTY	1	2	2	1	1	2	2
Average Mark				1.73	1.72	1.71	1.67	1.75	1.79	1.81
Last 3 Years Average = 78% (Target)				1.56	1.56	1.56	1.56	1.56	1.56	1.56
Students Scored Above Target mark				55	55	54	50	57	59	61
No. of Students attempted the question				75	75	75	75	75	75	75

% Students Scored Above Target Mark		73.3	73.3	72.0	66.7	76.0	78.7	81.3
Attainment Level		2	2	2	2	3	3	3

CO1	2	2	2	2			
CO2					3	3	3
CO3							
CO4							
CO5							

CO No.	
CO1	To analyze the forces and moments develo
CO2	To introduce the techniques for analyzing
CO3	To solve basic problems on centroid, mon
CO4	To apply Newton's law, D'alembert's prin
CO5	To apply the kinematics of rotation, Equa

Rubrics:	
>=80% students	3
70 to 79% students	2
60 to 69 % students	1
Less than 60%	0

Reason for low attainment:	Mistakes in analysing and cal
Plan of Action for improvement:	More Numericals are required
	Doubt Clearing Classes/Tuto

Signature of Faculty **Signature o**

GITA Autonom
Department of
Cour
Course N
Course C
Faculty N

Internal Examination-1

age=5)				**Quiz (Weightage=5)**											**Assignment (Weigh**			
8	**9**	**10**	**TOTAL**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**TOTAL**	**1**	**2**	**3**	**4**
2	**2**	**2**	**5**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**5**	**5**	**5**	**5**	**5**
2	**3**	**3**		**3**	**3**	**4**	**4**	**4**	**4**	**5**	**5**	**5**	**5**		**1**	**2**	**3**	**4**
2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	5	5	5	5
2	2	2	4	2	2	2	2	2	2	2	2	2	2	5	3	3	4	5
1	0	1	2	1	1	0	0	1	1	1	1	1	1	2	1	1	1	1
1	2	2	4	1	2	2	2	1	2	1	2	1	2	4	4	2	1	4
2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	5	5	5	5
2	2	2	4	2	2	2	2	2	2	1	1	1	1	4	3	3	4	5
2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	5	5	5	5
1	2	2	4	1	1	2	1	2	2	2	1	2	2	4	4	1	2	4
2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	5	5	5	5
2	1	2	4	2	1	2	2	1	2	1	2	1	2	4	4	2	1	4
1	2	2	4	1	1	2	2	1	2	2	2	2	1	4	4	1	2	4
2	2	2	4	1	2	1	1	2	2	1	2	2	2	4	4	2	1	2
2	2	2	5	2	2	2	2	2	2	1	1	1	1	4	5	5	5	5
2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	5	5	5	5
2	2	2	4	2	2	2	2	2	2	1	1	1	1	4	3	3	4	5
2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	5	5	5	5
2	1	2	4	2	2	1	1	2	2	2	2	1	1	4	4	4	4	1
2	2	2	4	1	1	2	2	1	2	1	2	2	2	4	4	4	4	2
2	1	1	4	2	2	2	2	2	2	1	1	1	1	4	5	5	5	5
2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	5	5	5	5
2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	5	5	5	5
1	2	2	4	1	2	2	1	2	2	1	2	1	2	4	4	4	4	2
1	2	2	4	1	2	2	1	2	2	1	2	2	1	4	4	4	4	1
2	2	2	4	2	2	2	2	2	2	2	2	2	2	5	5	5	5	5
2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	3	4	3	5
2	2	2	5	2	2	2	2	2	2	1	1	1	1	4	5	5	5	5
2	2	2	5	2	2	2	2	2	2	1	1	1	1	4	3	4	3	5
2	2	2	5	2	2	2	2	2	2	1	1	1	1	4	5	5	5	5
2	1	2	4	2	2	1	1	2	2	1	2	2	1	4	5	5	5	5
1	1	0	2	1	1	0	1	1	1	1	1	1	2	2	2	2	3	1
2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	5	5	5	5
2	2	2	4	2	2	1	1	2	2	2	2	1	1	4	3	3	4	5

2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	5	5	5	5
2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	5	5	5	5
2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	5	5	5	5
2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	5	5	5	5
2	2	2	4	2	2	2	1	1	2	2	2	1	1	4	2	2	3	1
2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	3	4	4	4
2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	5	5	5	5
2	1	2	4	1	2	1	1	2	2	2	2	1	2	4	4	4	4	1
2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	5	5	5	5
2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	3	3	3	3
2	2	2	4	1	2	1	1	2	1	2	2	2	2	4	4	4	4	2
1	2	2	4	1	2	2	1	1	2	1	2	2	2	4	4	4	4	2
2	2	1	4	2	2	1	1	2	2	2	2	1	1	4	4	4	4	2
2	1	2	4	2	1	2	1	2	2	1	2	1	2	4	4	4	4	2
1	0	1	2	2	2	1	2	2	1	2	1	1	2	4	1	1	1	1
2	2	1	4	2	2	2	1	1	2	2	2	1	1	4	4	4	4	2
2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	3	4	4	4
2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	5	5	5	5
2	2	2	4	1	1	2	2	2	1	2	2	2	1	4	4	4	4	2
2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	5	5	5	5
2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	5	5	5	5
1	2	2	4	1	1	1	2	2	2	2	2	1	2	4	4	4	4	2
2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	5	5	5	5
1	2	2	4	1	1	2	2	2	1	2	2	2	1	4	4	4	4	2
2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	5	5	5	5
1	2	2	4	1	1	2	1	2	2	1	2	2	2	4	4	4	4	2
2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	5	5	5	5
2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	3	4	4	4
2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	5	5	5	5
2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	5	5	5	5
1	2	2	4	1	1	2	2	1	2	2	1	2	2	4	4	4	4	2
2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	5	5	5	5
2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	5	5	5	5
2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	3	4	4	4
2	2	2	5	2	2	2	2	2	2	1	1	1	1	4	5	5	5	5
2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	5	5	5	5
2	2	2	5	2	2	2	2	2	2	1	1	1	1	4	3	3	3	3
2	2	2	5	2	2	2	2	2	2	2	2	2	2	5	5	5	5	5
1	2	2	3	2	2	2	2	2	2	2	2	2	2	5	3	3	3	3
2	1	2	4	2	2	1	1	2	1	1	2	2	2	3	3	3	3	2
2	2	2	4	2	2	1	1	2	1	1	2	2	2	4	4	4	4	4
1	2	2	4	1	1	1	2	2	2	1	2	2	2	4	2	2	2	3
1	2	2	4	1	1	2	2	2	1	2	2	2	1	4	4	4	4	2
1.79	1.84	1.91		1.75	1.81	1.79	1.73	1.87	1.88	1.68	1.81	1.69	1.72		4.11	4.03	4.07	3.80
1.56	1.56	1.56		1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56		3.90	3.90	3.90	3.90
59	65	69		56	61	61	56	65	66	51	61	52	54		56	57	59	49
75	75	75		75	75	75	75	75	75	75	75	75	75		75	75	75	75

78.7	86.7	92.0		74.7	81.3	81.3	74.7	86.7	88.0	68.0	81.3	69.3	72.0		74.7	76.0	78.7	65.3
3	3	3		2	3	3	2	3	3	2	3	2	2		2	3	3	2

															2			
3																3		
	3	3		2	3												3	
						3	2	3	3									2
										2	3	2	2					

Course Outcome	Highest Cognitive Level	
oped in structural members using the principle of equilibrium	K4	1, 2,
internal member forces acting on trusses and frames	K4	1, 2,
nents of inertia, and the principle of virtual work	K3	1, 2,
ciple for rectilinear and curvilinear motion.	K3	1, 2,
tion of motion of a rotating body	K3	1, 2,

culation of the problem
l to be provided in assignments.
rial Classes are required to be conducted

f HoD **Signature of Principal**

ous College, Bhubaneswar
Mechanical Engineering
rse Assessment
ame: Engineering Mechanics
ode: 22BTTES204
ame: Dr. Manmatha Kumar Roul

		Internal Examination-2 (Weightage=25)																
htage=5)		Mid Semester (Students have to answer any eight from Q.1, any three from Q.2 and a																
5	TOTAL	1a	1b	1c	1d	1e	1f	1g	1h	1i	1j	2a	2b	2c	2d	2e	3a	3b
5	**5**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**6**	**6**	**6**	**6**	**6**	**3**	**5**
5		**1**	**1**	**1**	**1**	**1**	**2**	**2**	**2**	**3**	**3**	**1**	**1**	**1**	**2**	**3**	**1**	**1**
5	5	2		2	2		2	2	2	2	2		5	6	6		3	4
5	4	2	2	2	1		1	1		1	1		4	3	4			
1	1	1	1	1		1	1	1	1	1			3		3	4	2	3
4	3			2	2	1	2	1	2	2	2	6	5	5			3	4
5	5		2		2	2	2	2	2	2	2	6	4	4			2	4
5	4			2	2	2	2	2	2	2	2		3	5		4	2	3
5	5	2	1	1	2	1	3		1	1		6		5		4	3	4
4	3	2		1	1	1		1	1	1	1		3	4	4		3	4
5	5	2	1	1	1	2	2	2	2			6		5		6	3	3
4	3	2		1		1	2	1	1	1	1	6		1	4		1	4
4	3	2	2		1	1	2	2	2		1	6		5		4		
1	2	2	2	2	2		2	2	2	1			6	5		4	3	3
5	5	2	2	1	2	2	1	2	2				5	6		4	3	4
5	5	2	2		2	2	2	2		2	2		6	6		4	3	3
5	4	2	2		2	2	2	2	2		2	6		4		4		
5	5	2	2			2	2	2	2	2	2	6		6		4	3	3
2	3	2	1	1	1		2	1	2	2		6		5		4	3	4
1	3	2		1	2	2		2	2	2	2		5	5		4	1	2
5	5	2	2		2	2	2	2	2	2			5	5		4		
5	5	2	1	1	2		2		2	1	2	4		4		4	3	4
5	5	1	2		2	2	1	2	2		2		5	6		6	3	4
1	3	2	2		0	1	2	2	2	2		6	5		6		3	5
2	3	2	2			2	2	2	2	2	2	6		5		6	3	4
5	5	2		2	2	2	2	2	2		2		6	6		6	1	5
5	4	2		2	2	1		0	2	2	2		6	5		6	3	5
5	5	2	2		2	2	2	2	2		2	6		5		6	3	4
5	4	2			2	1	2	1	1	2	0		6	5		6	3	5
5	5	2	1	2	2	2	2	2			1	6		5		6	1	4
5	5	2	2	2	2		2	2		2	2	6		6		6	3	4
2	2		2	2	1	1	1		1	1	1		2	3		4	1	2
5	5	2		2	2	2		2	2	2	2		6	6		6	1	5
5	4	2		2	2	2		1	2	2	1		6	5		6	3	4

5	5	1		1	2	2	1	1	2	2		6			5	6		
5	5	2		1	1	1	2	1	2		2	4			5	4	3	4
5	5	2		1	1	1	1	2		2	2		6		5	6	3	4
5	5	2		2	2	2	2	2	2	2			6	5		6		
2	2	2	2	1	1	1	1		1	1			2		3	2	3	2
5	4		2	2	2	2	2	2	2	2			6		6	6	3	5
5	5	2		1	2	2		1	2	2	2	5			6	6		
2	3	1	1		2	2	2	2	2	2		5			6	6	3	4
5	5	2	2		2	2	2	2	2	2			6	5		6	1	4
3	3	2	2			2	2	2	2	2	2	6	6			6	3	3
1	3		2	2	2	2	2		2	2	2	6		6		6	3	3
1	3	2		1	1	2	2	2	2	2		6		5		6	1	4
1	3	2	1		1	1	2	1	1	1		4		4		4	3	4
1	3	2		2	2		2	2	2	2	2		6	5		6	3	4
1	1	2			1	1	2	2	2	2	2		1		2	2	1	2
1	3	2		2	1	1	1	1	1	2			6		6	6	3	4
5	4		2	2		2	2	2	2	2	2	6		6		6	1	3
5	5	2		2	2	2		2	2	2	2	6		5		6	3	4
1	3	2	2	2		1		2	2	2	2		6	6		6	3	4
5	5	2		2		2	2	2	2	2	2		6	6		6	3	5
5	5	2		2	2	2	2		2	2	2	6			5	6	3	4
1	3	2	2		2	2	2	2		1	1	6		6	5		1	4
5	5	1	2		2	2	1	1		2	1	4	4		3		3	4
1	3	2	2		1	2	2	2	2	2		6	6		5		1	4
5	5		2	2		2	2	1	1	1	1	6		6	6		3	5
1	3		2	2		2	2	2	2	2	2	6		6		5	3	4
5	5	2	2		2	2	2	1	1		2	6	6			6	3	3
5	4	2			2	2	2	1	1	2	2	4	4			4	3	3
5	5	2	2	2	2			2	2	2	2	6		6		6	1	3
5	5	2	2	2	2	2	2	2	2			6		6		5	1	4
1	3	2		2	2	2	2	2	2	2			6	6	5		1	4
5	5	2		2	2		1	2	1	1	2	4		4	5		1	3
5	5	2	1	2		2	2	2		2	2	6		6	6		2	4
5	4	2	2		2	2	2	1	1	2		6		6	6		3	3
5	5	2			2	2	2	2	2	2	2		6		5	6	3	4
5	5	2		1	1	2	2	2	2		2	6			6	5	3	4
3	3	1	2		2	2	1	2	2	2		6		5	6		3	4
5	5		2		2	2	2	1	1	2	2	6		5		6	3	4
3	3	1	2		1	1	1		2	2	2	3	3		3		3	4
4	3	1			2	1	1	1	1	2	2	3	3	6			1	5
4	4		2	2	2	2	2	2	2	2		3	3		5		3	4
1	2		2	2	2	2	2	1	2	2		3	3		4		2	3
1	3		2	2	2	2	2	1	1	2		6		6	6		3	3
3.73		1.87	1.80	1.67	1.72	1.71	1.80	1.65	1.75	1.79	1.76	5.43	4.80	5.15	4.90	5.17	2.43	3.78
3.90		1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	4.68	4.68	4.68	4.68	4.68	2.34	3.90
50		54	37	32	47	47	52	45	50	50	39	36	27	44	22	35	46	48
75		62	46	48	64	66	66	68	67	63	50	46	41	53	31	54	68	68

66.7		87.1	80.4	66.7	73.4	71.2	78.8	66.2	74.6	79.4	78.0	78.3	65.9	83.0	71.0	64.8	67.6	70.6
2		3	3	2	2	2	3	2	2	3	3	3	2	3	2	1	2	2

		3	3	2	2	2						3	2	3			2	2
							3	2	2						2			
										3	3					1		
2																		

POs	PSOs
3, 4, 5, 6, 7, 11, 12	1, 2
3, 4, 5, 6, 7, 11, 12	1, 2
3, 4, 5, 11, 12	1, 2
3, 4, 5, 6, 7, 11, 12	1, 2
3, 4	1, 2

ny two from Part-III					End Semester Exam			Attainment from End Semester Ex			
4a	**4b**	**5a**	**5b**	**TOTAL**	**External GRADE**	**Equivalent Mark**	**Percentage**	CO1_Attainment	CO2_Attainment	CO3_Attainment	CO4_Attainment
3	**5**	**3**	**5**	**37**							
2	**2**	**3**	**3**	**Max=25**							
		3	5	24	E	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	5	3	3	18	A	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
		2	3	14	F	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	4			22	E	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
		1	5	21	A	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	4			20	B	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
		1	5	20	E	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	4			17	B	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
		3	5	22	A	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	5			17	A	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	5	3	5	22	A	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
		3	5	22	E	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
1	5			21	B	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
		3	5	23	O	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
1	3	3	5	21	O	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	5			23	A	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
		3	5	21	B	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	5			20	A	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	3	3	3	21	A	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	3			19	B	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	5			23	A	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
		3	5	23	A	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
1	5			23	B	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
		1	5	23	A	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	5			23	O	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	3			23	B	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
		3	5	22	E	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	5			22	A	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
		2	3	23	A	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
		1	3	13	F	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
1	3			22	A	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	5			23	A	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?

3	5	3	4	22	E	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	5			20	A	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	5			22	B	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	3	3	4	23	A	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
1	3			13	F	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	5			25	E	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	3	3	4	22	A	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	3			22	A	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
		1	5	22	E	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
1	3			22	C	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
		3	5	24	E	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	5			22	B	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
		3	4	18	A	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
1	5			23	A	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	3			14	F	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
		1	5	21	B	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
		3	3	22	E	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	5			24	O	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	5			24	E	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
		3	5	25	B	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	5			24	B	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	3			21	A	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	5			19	E	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
		3	4	22	A	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	5			23	E	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	3			23	B	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
1	5			22	E	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	3			19	A	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	1			21	A	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
		1	5	22	E	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	5			23	A	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
		3	3	18	A	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
2	5			23	B	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
1	5			22	O	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	3			23	A	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
		3	5	23	A	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
		1	3	21	C	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
1	5			22	A	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
		1	3	16	C	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	4			18	A	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
3	3			20	A	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
		3	3	18	B	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
		3	5	23	A	######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
2.56	4.17	2.41	4.26			######	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?
2.34	3.90	2.34	3.90								
37	31	23	24								
48	48	34	34								

77.1	64.6	67.6	70.6		
3	1	2	2		

				Attainment	% of Students	External	Overall Attainment
				2.27	74	#NAME?	#NAME?
3	1			2.55	75	#NAME?	#NAME?
		2	2	2.50	77	#NAME?	#NAME?
				2.60	74	#NAME?	#NAME?
				2.20	71	#NAME?	#NAME?
				Average			#NAME?

am
CO5_Attainment
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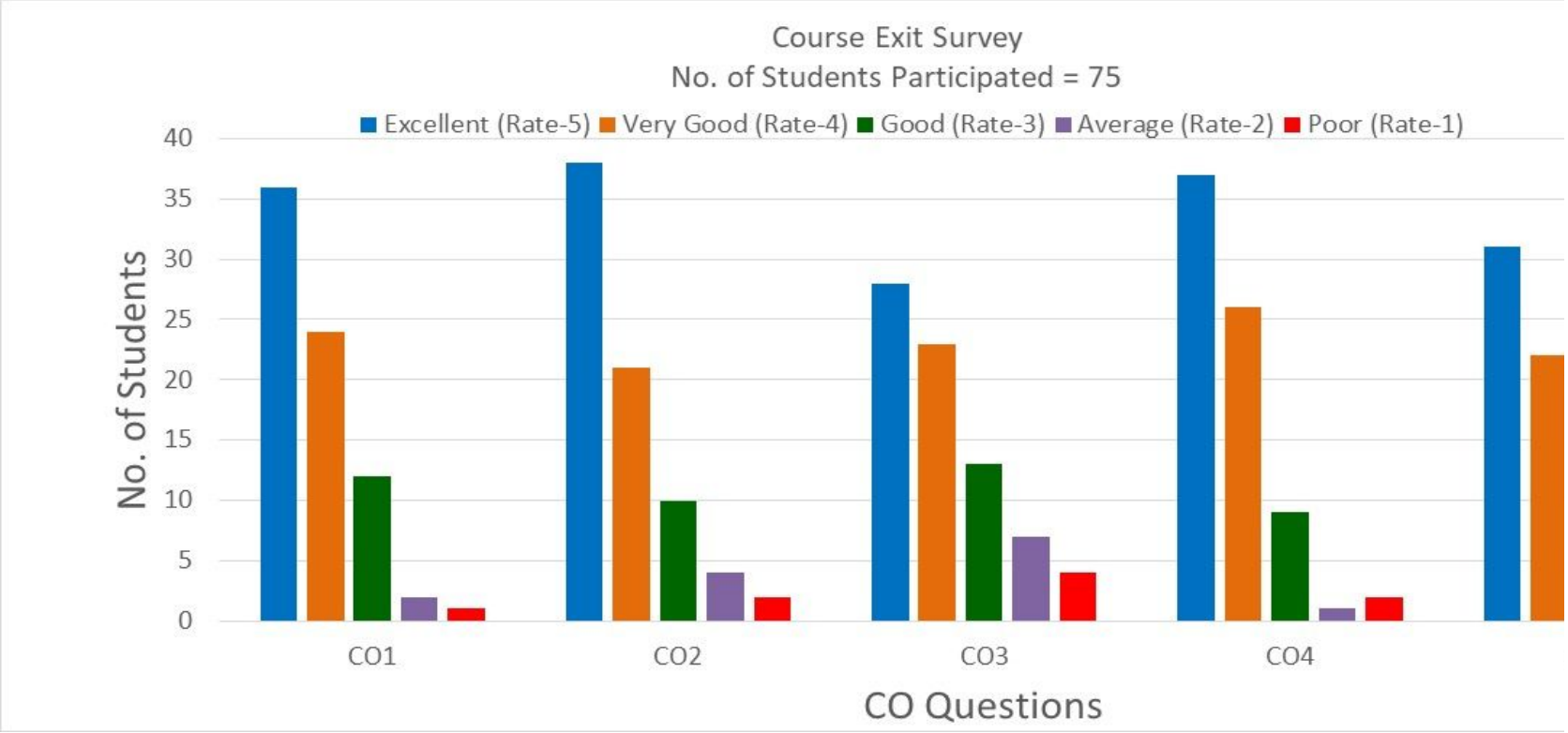
Summary of Course Exit Survey

CO No.	Course Outcome Question	No. of Students Rated and Rating Percentage								
		5	%	4	%	3	%	2	%	1
		Total number of students participated in Course Exit Survey								
CO1	Rate yourself based on your ability to analyze the forces and moments developed in structural members using the principle of equilibrium.	36	48.00	24	32.00	12	16.00	2	2.67	1
CO2	Rate yourself based on your ability to introduce the techniques for analyzing internal member forces acting on trusses and frames	38	50.67	21	28.00	10	13.33	4	5.33	2
CO3	Rate yourself based on your ability to solve basic problems on centroid, moments of inertia, and the principle of virtual work.	28	37.33	23	30.67	13	40.89	7	9.33	4
CO4	Rate yourself based on your ability to apply Newton's law, D'Alembert's Principle for rectilinear and curvilinear motion.	37	49.33	26	34.67	9	12.00	1	1.33	2
CO5	Rate yourself based on your ability to Evaluate Kinematics of rotation, Equation of motion of a Rotating rigid body.	31	41.33	22	29.33	12	16.00	7	9.33	3

Course Outcome	Excellent (Rate-5)	Very Good (Rate-4)	Good (Rate-3)	Average (Rate-2)	Poor (Rate-1)	Total
CO1	36	24	12	2	1	75
CO2	38	21	10	4	2	75
CO3	28	23	13	7	4	75
CO4	37	26	9	1	2	75
CO5	31	22	12	7	3	75



Sl No	Roll No.	Regd No	CO1	CO2	CO3	CO4	CO5

Rubrics

1	2202001	2201287001	3	2	3	3	1
2	2202002	2201287002	3	3	2	3	3
3	2202003	2201287003	2	3	3	2	3
4	2202004	2201287004	3	3	3	3	3
5	2202005	2201287005	3	1	3	2	1
6	2202006	2201287007	2	3	3	3	2
7	2202007	2201287009	3	3	2	2	3
8	2202008	2201287010	3	3	3	0	3
9	2202009	2201287011	3	3	3	3	2
10	2202010	2201287012	3	3	1	3	3
11	2202012	2201287014	3	3	3	2	1
12	2202013	2201287015	3	2	0	3	3
13	2202014	2201287016	3	3	3	3	3
14	2202015	2201287017	3	0	3	3	2
15	2202016	2201287019	3	2	2	3	3
16	2202017	2201287020	2	3	3	3	3
17	2202018	2201287021	3	2	1	3	2
18	2202019	2201287023	3	3	3	0	2
19	2202020	2201287022	3	3	2	2	3
20	2202021	2201287024	3	3	2	1	3
21	2202022	2201287025	3	3	1	3	1
22	2202023	2201287026	1	3	3	3	3
23	2202024	2201287027	2	2	3	3	3
24	2202025	2201287029	3	3	3	3	3
25	2202026	2201287030	3	3	0	3	3
26	2202027	2201287031	3	3	2	3	0
27	2202028	2201287032	3	3	3	3	3
28	2202029	2201287033	3	3	3	3	1
29	2202030	2201287034	3	3	3	3	3
30	2202031	2201287035	3	3	3	3	3
31	2202032	2201287036	3	3	2	3	3

Rate-5	**3.00**
Rate-4	**3.00**
Rate-3	**2.00**
Rate-2	**1.00**
Rate-1	**0.00**

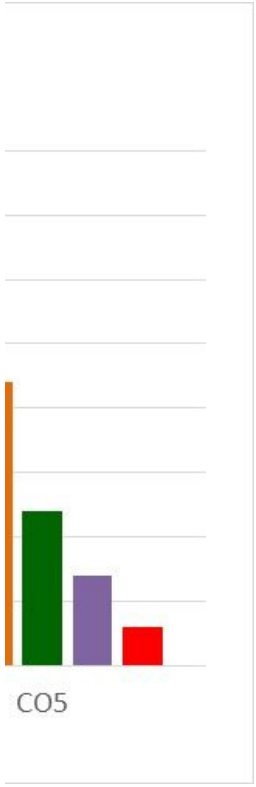
32	2202034	2201287037	1	3	2	3	3
33	2202035	2201287039	3	3	3	2	3
34	2202037	2201287041	3	3	3	3	3
35	2202038	2201287042	2	3	3	3	3
36	2202039	2201287043	3	3	1	3	2
37	2202040	2201287044	3	3	3	3	3
38	2202041	2201287045	3	3	2	3	2
39	2202042	2201287046	2	3	3	2	3
40	2202043	2201287047	3	3	3	3	3
41	2202044	2201287048	3	2	3	3	3
42	2202045	2201287049	2	3	2	3	3
43	2202046	2201287050	3	3	3	3	2
44	2202047	2201287051	3	3	3	3	3
45	2202048	2201287052	3	0	2	3	3
46	2202049	2201287053	3	3	3	3	3
47	2202050	2201287054	3	3	3	3	2
48	2202051	2201287055	3	3	3	3	3
49	2202052	2201287056	3	3	0	3	3
50	2202053	2201287057	3	3	3	2	3
51	2202054	2201287058	0	3	2	3	3
52	2202055	2201287059	3	2	3	3	3
53	2202056	2201287060	3	3	3	3	3
54	2202057	2201287061	3	2	3	3	3
55	2202058	2201287062	2	3	1	3	0
56	2202059	2201287063	3	3	3	3	3
57	2202060	2201287064	3	3	3	3	3
58	2202061	2201287065	3	3	1	3	2
59	2202062	2201287066	3	3	3	3	2
60	2202063	2201287067	2	1	3	2	3
61	2202064	2201287068	3	1	3	3	3
62	2202065	2201287069	3	3	3	3	3

63	2202066	2201287070	3	3	3	3	0
64	2202067	2201287071	3	1	3	3	3
65	2202068	2201287072	3	3	2	3	3
66	2202069	2201287073	2	3	3	3	1
67	2202070	2201287074	3	3	3	3	3
68	2202071	2201287075	3	2	3	3	3
69	2202072	2201287076	2	3	3	3	2
70	2202073	2201287077	3	3	0	3	3
71	2202076	2201287080	3	3	3	3	3
72	2202077	2201287081	3	3	1	3	3
73	2202078	2201287083	3	2	3	3	3
74	2202079	2201287084	3	3	3	3	3
75	2202080	2201287085	2	3	3	3	1
Average			**2.75**	**2.68**	**2.48**	**2.77**	**2.53**

CO Attainment				
S. No.	**CO's Number**	**Direct Attainment**	**Indirect Attainment**	**Overall Attainment**
1	**CO1**	**#NAME?**	**2.75**	**#NAME?**
2	**CO2**	**#NAME?**	**2.68**	**#NAME?**
3	**CO3**	**#NAME?**	**2.48**	**#NAME?**
4	**CO4**	**#NAME?**	**2.77**	**#NAME?**
5	**CO5**	**#NAME?**	**2.53**	**#NAME?**
			Average	**#NAME?**

Signature of Faculty **Signature of HoD** **Signature of Principal**

% 75	Average %	CO Attainment
1.33	84.53	2.75
2.67	83.73	2.68
5.33	77.07	2.48
2.67	85.33	2.77
4.00	78.93	2.53


CO5

Course Name: Engineering Mechanics	Course Code: 22BTTES204

CO No.	Course Outcome	Highest Cognitive Level	POs	PSOs
CO1	To analyze the forces and moments developed in structural members using the principle of equilibrium	K4	1, 2, 3, 4,	1, 2
CO2	To introduce the techniques for analyzing internal member forces acting on trusses and frames	K4	1, 2, 3, 4,	1, 2
CO3	To solve basic problems on centroid, moments of inertia, and the principle of virtual work	K3	1, 2, 3, 4,	1, 2
CO4	To apply Newton's law, D'alembert's principle for rectilinear and curvilinear motion.	K3	1, 2, 3, 4,	1, 2
CO5	To apply the kinematics of rotation, Equation of motion of a rotating body	K3	1, 2, 3, 4	1, 2

CO No.	CO Mapping with PO												CO-PSO Mapping		
CO No.	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**	**PSO3**
CO1	3	3	3	3	3	2	2	-	-	-	2	2	3	3	-
CO2	3	3	3	3	3	2	1	-	-	-	2	2	3	3	-
CO3	2	2	2	2	1	-	-	-	-	-	1	1	2	3	-
CO4	3	3	3	2	2	1	1	-	-	-	1	1	2	2	-
CO5	3	2	2	1	-	-	-	-	-	-	-	-	1	1	-
AVERAGE	2.80	2.60	2.60	2.20	2.25	1.67	1.33	-	-	-	1.50	1.50	2.20	2.40	-
3-High, 2-Medium, 1-Low															
Here in the table, '3' corresponds to a high correlation, '2' corresponds to a medium correlation, and '1' corresponds to a low correlation between CO and PO/PSO.															
	PO Attainment												**PSO Attainment**		

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Average PO Mapping (M)	2.80	2.60	2.60	2.20	2.25	1.67	1.33	-	-	-	1.50	1.50	2.20	2.40	-
PO Attainment	2.36	2.19	2.19	1.86	1.90	1.41	1.12	-	-	-	1.27	1.27	1.86	2.02	-

CO Attainment				
S. No.	**CO's Number**	**Direct Attainment**	**Indirect Attainment**	**Overall Attainment**
1	CO1	#NAME?	2.75	#NAME?
2	CO2	#NAME?	2.68	#NAME?
3	CO3	#NAME?	2.48	#NAME?
4	CO4	#NAME?	2.77	#NAME?
5	CO5	#NAME?	2.53	#NAME?
			Average	**#NAME?**

Signature of Faculty **Signature of HoD** **Signature of Principal**