AMET
ACADEMY OF MARITIME EDUCATION AND TRAINING
DEEMED TO BE UNIVERSITY
(Under Section 3 of UGC Act 1956)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
Consolidation of Direct PO and PSO Attainments (2016– 2020 Batch)

COURSE CODE		COURSE NAME	Program Outcomes											PSO		
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
SEMESTER I																	
C101	UBLEC01	Technical English-I	-	-	-	-	1.40	1.41	1.40	-	1.54	1.54	-	1.52	-	-	-
C102	UBMTC01	Engineering Mathematics-I	1.92	1.92	1.92	1.47	1.54	-	-	-	-	-	-	1.54	1.75	1.81	1.81
C103	UBPHC01	Engineering Physics-I	1.49	1.59	1.50	1.27	1.49	-	-	-	-	-	-	1.41	1.45	1.60	1.45
C104	UBCHC01	Engineering Chemistry	1.71	1.44	2.42	-	1.49	-	2.06	-	-	-	-	1.56	1.51	1.51	1.78
C105	UBIT1C01	Fundamentals of Computer Programming	1.67	1.67	1.57	1.41	1.33	-	-	-	-	1.43	-	1.66	-	-	-
C106	UBMCCPA	Engineering Graphics	1.77	1.65	1.25	1.53	1.72	-	-	-	-	1.42	-	1.33	1.41	1.38	1.27
C107	UBPHCPA	Engineering Physics Laboratory	2.14	2.02	2.14	2.30	1.84	-	-	-	1.84	1.84	-	2.02	1.84	2.39	2.19
C108	UBCHCPA	Engineering Chemistry Laboratory	1.77	1.52	2.26	1.67	1.53	-	1.91	-	1.90	1.90	-	1.48	1.52	1.51	1.76
C109	UBITCPA	Fundamental of Computer Programming Laboratory	1.78	1.66	1.91	1.28	1.73	-	-	-	-	1.27	-	1.41	-	-	-
C110	UCLECPB	Soft skills - I	-	-	-	-	-	1.70	1.16	1.50	1.57	1.51	-	1.62	-	-	-
SEMESTER II																	
C111	UBLEC02	Technical English-II	-	-	-	-	-	1.34	1.30	-	1.32	1.32	-	1.32	-	-	-
C112	UBMTC02	Engineering Mathematics-II	1.67	1.50	1.67	1.39	1.42	-	-	-	-	-	-	1.46	1.51	1.25	1.39
C113	UBPHC02	Engineering Physics-II	1.53	1.29	1.01	0.95	0.96	-	-	-	-	-	-	1.58	1.18	1.21	1.21
C114	UBEEC01	Basics of Electrical &Electronics Engineering	1.86	1.87	1.75	1.40	-	-	-	-	-	-	-	1.75	1.75	1.40	2.09
C115	UBBTC01	Environment Studies	-	-	-	-	-	1.31	1.25	1.22	1.20	-	-	1.20	-	-	-

C116	UBMCC03	Engineering Mechanics	0.97	0.84	0.78	0.65	0.53	-	-	-	-	-	-	0.66	0.66	0.76	0.78
C117	UBMCC11	Thermodynamics	0.87	0.74	0.69	0.58	0.55	-	-	-	-	-	-	0.60	0.60	0.66	0.69
C118	UBEECPA	Basics of Electrical &Electronics Engineering Laboratory	1.71	1.71	1.99	1.57	1.50	-	-	-	1.57	1.71	2.28	1.88	2.28	1.28	1.71
C119	UBWSCPA	Engineering Practices Laboratory	1.58	-	1.58	-	1.58	-	-	-	1.58	1.58	-	1.56	-	-	-
C120	UBLECPC	Soft Skills – II	-	-	-	-	-	1.41	1.21	1.45	1.63	1.66	-	1.36	-	-	-
SEMESTER III																	
C201	UBMTC03	Engineering Mathematics-III	2.14	2.03	2.14	1.93	1.28	-	-	-	-	-	-	1.26	1.77	1.55	2.00
C202	UBEE309	Electrical Circuits and Electronic Devices	2.18	2.18	1.51	1.61	-	-	-	-	-	-	-	1.42	1.47	1.38	2.40
C203	UBEE303	Digital Logic Circuits	2.03	2.39	2.10	1.76	2.22	-	-	-	1.61	-	2.01	1.29	1.59	1.56	1.81
C204	UBEE302	DC and AC Machines	2.40	2.40	2.52	2.52	1.38	-	-	-	-	-	2.39	2.52	2.52	2.52	2.52
C205	UBIT301	Object Oriented Programming	1.82	1.78	1.71	1.20	1.34	-	-	-	-	-	-	1.34	1.66	1.99	1.44
C206	UBMCC04	Fluid Mechanics	2.30	1.88	1.82	1.41	1.69	-	-	-	-	-	-	1.60	1.88	1.58	1.72
C207	UBEE3PA	DC and AC Machines Laboratory	2.12	2.10	2.22	2.08	1.13	-	-	-	1.87	1.97	2.08	2.22	2.22	2.22	2.22
C208	UBMCCPC	Fluid Mechanics Laboratory	2.00	1.70	1.57	1.67	1.12	-	-	-	-	-	-	1.62	1.80	1.25	1.36
C209	UBIT3PA	Object Oriented Programming Laboratory	1.98	1.93	1.84	1.29	1.86	-	-	-	1.10	1.30	1.48	1.82	1.39	1.39	0.72
C210	UBLECPD	Soft Skills - III	-	-	-	-	-	1.44	1.06	1.35	1.75	1.17	-	1.35	-	-	-
SEMESTER IV																	
C211	UBMT403	Numerical Methods	2.09	1.71	2.09	1.61	0.52	-	-	-	-	-	1.61	1.47	1.26	1.17	1.09
C212	UBEE405	Transducers	1.42	1.50	1.35	1.57	1.11	-	-	-	-	-	1.41	1.42	1.41	0.44	1.49
C213	UBEE404	Linear Integrated Circuits	1.26	1.33	1.32	1.32	1.19	-	-	-	1.05	0.98	1.33	1.33	1.47	1.47	1.47

C214	UBEE401	Control Systems	1.92	1.82	1.81	1.92	1.67	0.48	-	-	-	-	1.28	1.24	1.92	1.92	1.92
C215	UBEE402	Electromagnetic Theory	1.82	1.73	1.57	1.53	1.48	1.09	-	-	-	-	1.27	1.53	1.82	1.82	1.82
C216	UBMCC05	Pneumatics, Hydraulics & Electrical Control Systems	1.66	1.85	1.77	1.75	1.54	-	-	-	-	-	1.51	1.45	1.73	1.65	1.76
C217	UBEE4PA	Integrated Circuits Laboratory	1.99	1.99	2.00	1.99	1.21	-	-	-	1.61	1.35	1.98	1.98	2.24	2.24	2.24
C218	UBMCCPB	Pneumatics, Hydraulics & Electrical Control System Laboratory	1.60	1.52	1.50	1.60	0.77	-	-	-	1.30	1.31	0.38	1.61	1.00	1.52	1.61
C219	UBEE4PB	Transducers Laboratory	2.21	1.82	2.11	1.70	1.60	-	-	-	1.59	1.70	1.82	1.83	1.84	1.86	1.97
C220	UBLECPE	Soft Skills- IV	-	-	-	-	-	2.22	1.77	2.20	2.48	2.48	-	2.48	-	-	-
SEMESTER V																	
C301	UBEE505	Power Electronics	2.83	2.50	2.50	2.50	2.50	3.00	2.80	-	-	-	2.67	3.00	2.67	2.50	2.50
C302	UBEE508	Marine ElectricalTechnology	2.67	2.50	2.50	2.75	3.00	2.67	3.00	-	-	-	2.67	2.50	2.17	2.50	2.33
C303	UBEE503	Microprocessor and Microcontroller	2.67	3.00	2.83	2.67	2.50	-	-	-	-	-	2.33	2.50	2.50	2.00	3.00
C304	UBMEC01	Marine Engineering – I	3.00	2.50	2.67	2.75	2.50	-	-	-	-	-	2.00	2.00	2.50	2.50	2.50
C305	UBEE511	Communication Engineering	2.33	2.67	2.50	2.33	2.50	-	-	-	-	-	2.67	2.75	2.33	2.50	-
C306	UBEE515	Electrical Estimation and Wiring	2.50	2.50	2.25	2.60	2.33	3.00	-	-	-	-	2.25	2.00	2.67	2.00	2.00
C307	UBEE5PA	Microprocessor & Microcontroller	1.70	1.46	1.28	1.84	0.69	0.75	0.91	-	-	-	1.34	0.69	1.49	1.10	0.58

		Laboratory														
C308	UBEE5PB	Power Electronics Laboratory	1.67	1.39	1.24	1.77	0.67	0.68	0.90	-	-	-	1.32	0.67	1.44	1.08	0.52
C309	UBEE5PC	Marine Electrical Technology Laboratory	3.00	3.00	3.00	2.67	2.50	-	-	-	2.75	2.75	2.50	3.00	2.80	2.50	2.67
C310	UBLECPF	Personality Development Programme-I	-	-	-	-	-	2.50	1.80	2.50	2.00	2.00	0.00	2.50	-	-	-
SEMESTER VI																	
C311	UBEE604	Process Control and Marine Automation	1.83	1.63	1.68	1.77	1.50	-	-	-	-	-	2.02	1.68	1.83	1.52	1.66
C312	UBEE602	Digital Signal Processing	1.40	1.29	1.40	1.10	1.29	-	-	-	-	-	1.39	1.10	1.59	1.53	1.45
C313	UBEE601	Design of Electrica lMachines	1.99	1.89	1.88	1.66	1.95	-	-	-	-	-	1.60	1.73	2.12	2.01	1.96
C314	UBEE611	Electrical Power Plant Engineering	2.09	2.08	2.08	2.08	2.06	-	-	-	-	-	2.00	2.00	2.23	2.00	2.15
C315	UBEE608	Measurement and Instrumentation	2.26	2.38	2.35	2.38	2.17	2.34	-	-	-	-	1.80	1.80	2.06	2.23	2.19
C316	UBMEC02	Marine Engineering – II	1.34	1.28	1.24	1.32	1.28	1.45	-	-	-	-	1.34	1.33	1.18	1.38	1.45
C317	UBEE6PA	Process Control and Marine Automation Laboratory	2.24	2.39	2.23	2.23	2.68	2.63	-	-	-	-	2.03	2.05	2.09	2.08	2.38
C318	UCEE6PB	Digital Signal Processing Laboratory	2.07	2.07	1.70	1.97	1.97	-	-	-	1.73	1.73	1.77	1.65	1.82	1.95	1.74
C319	UBLECPG	Personality Development Programme	-	-	-	-	-	1.91	1.55	1.92	1.53	1.50	-	1.91	-	-	-
SEMESTER VII																	

C401	UBEE706	Solid State Drives	1.52	1.68	1.28	1.68	1.49	1.43	-	-	-	-	1.68	1.46	1.68	1.28	1.30
C402	UBEE702	High Voltage on Merchant Ships	1.39	1.39	1.55	1.27	1.55	-	-	-	-	-	1.39	1.39	1.39	1.39	1.39
C403	UBEEC02	Marine Control Engineering & Automation	1.29	1.42	1.61	1.50	1.45	-	-	-	-	-	1.50	1.45	1.42	1.29	1.29
C404	UBEE704	Marine Electrical Protection and Switch Gears	1.74	1.70	1.70	1.49	1.82	-	-	-	-	-	1.62	1.69	1.74	1.70	1.65
C405	UBEE712	Special Electrical Machines	2.50	2.50	2.44	2.41	1.74	-	-	-	-	-	2.49	2.49	2.50	2.50	2.43
C406	UBEE705	Marine Electrical System Design & Layout	1.64	1.64	1.49	1.71	1.75	-	-	-	-	-	1.46	1.62	1.47	1.54	1.48
C407	UBEE7PA	High Voltage and Switch Gear Laboratory	2.49	2.34	1.66	2.16	2.35	-	-	-	2.63	2.27	2.24	2.61	2.19	2.60	2.39
C408	UBISCPX	Internship	-	-	-	-	-	2.50	2.40	-	2.88	2.40	2.88	2.88	2.88	2.88	2.88
C409	UBMPCPY	Minor Project	2.57	2.43	2.42	2.57	2.57	2.68	2.02	2.02	2.57	2.18	2.57	2.57	2.59	2.57	2.57
C410	UBEE711	Embedded system design	1.30	1.19	1.36	0.79	1.20	0.47	-	-	-	-	0.79	1.20	1.36	1.20	1.20
SEMESTER VIII																	
C411	UBEE801	Mobile Communication	2.93	2.76	2.89	2.95	2.93	-	-	-	-	-	-	2.55	2.95	2.95	2.61
C412	UBEE802	Flexible AC Transmission System	2.84	2.84	2.69	2.54	2.89	-	-	-	-	-	2.87	2.87	2.83	2.84	2.64
C413	UBBSC01	Total Quality Management	-	-	-	-	2.43	2.39	1.99	2.13	1.97	2.10	-	2.36	-	-	-
C414	UBEE8PA	Project Work	2.93	2.61	2.76	2.76	2.93	2.76	2.93	2.60	2.93	2.78	2.93	2.93	2.93	2.93	2.93
Average			**1.97**	**1.90**	**1.88**	**1.80**	**1.69**	**1.82**	**1.75**	**1.96**	**1.84**	**1.77**	**1.89**	**1.76**	**1.87**	**1.79**	**1.82**

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
Consolidation of Indirect PO and PSO Attainments (2016 – 2020 Batch)

PO Attainment level as calculated from Survey															
Survey Type	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**	**PSO3**
Student Exit Survey	2.99	2.63	2.63	2.76	2.39	2.76	2.99	2.98	2.99	2.98	2.99	2.99	3.00	2.63	2.88
Alumni Survey	2.85	2.85	2.69	2.85	2.85	2.99	2.99	2.85	2.99	2.99	2.85	2.85	2.99	2.99	3.00
Employer Survey	2.99	2.99	2.99	2.99	2.99	2.96	2.98	2.99	2.99	2.99	2.98	2.99	2.99	3.00	3.00
Student Exit Survey (15%)	0.45	0.40	0.40	0.41	0.36	0.41	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.39	0.43
Alumni Survey (10%)	0.28	0.28	0.27	0.28	0.28	0.30	0.30	0.28	0.30	0.30	0.28	0.28	0.30	0.30	0.30
Employer Survey (5%)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Indirect Attainment (30%)	0.88	0.83	0.81	0.85	0.79	0.86	0.90	0.88	0.90	0.90	0.88	0.88	0.90	0.84	0.88

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Consolidation of overall PO and PSO Attainments (2016 – 2020 Batch)

Attainment of POs and PSOs															
Measurement Tool Used	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**	**PSO3**
Direct Attainment (70%)	1.52	1.54	1.53	1.53	1.46	1.49	1.52	1.70	1.65	1.54	1.58	1.51	1.55	1.51	1.50
Indirect Attainment (30%)	0.88	0.83	0.81	0.85	0.79	0.86	0.90	0.88	0.90	0.90	0.88	0.88	0.90	0.84	0.88
Overall PO and PSO Attainment	2.40	2.37	2.34	2.38	2.25	2.35	2.42	2.58	2.54	2.43	2.46	2.39	2.44	2.36	2.38

Academy of Maritime Education and Training Deemed to be UNIVERSITY

DEPARTMENT	**EEE**	**PROGRAM NAME**	**BE EEE-M**	**SUBJECT HANDLING STAFF**	**Mr.Amirtharaj**	
YEAR/SEM	**III/V**	**BATCH**	**2015-2019**			
SUBJECT CODE/NAME	**UDEE501 / Microprocessor and Microcontrollers**	**ACADEMIC YEAR**	**2017-2018**			
SUBJECT THRESHOLD	**55.00%**	**CAY-1**	**CAY-2**	**CAY-3**		
NO OF STUDENTS	**47**	**57.00%**	**50.00%**	**58.00%**		

		CO attainment					
1	% OF DIRECT ATTAINMENT THROUGH INTERNAL EXAMS(CAT I & II, Model exam, Assignment I,II & ALM	93.62%	72.34%	95.74%	89.36%	63.83%	95.74%
2	40% FROM DIRECT ATTAINMENT THROUGH INTERNAL EXAMS	37.45%	28.94%	38.30%	35.74%	25.53%	38.30%
3	% OF DIRECT ATTAINMENT THROUGH END SEMESTER EXAM	68.09%	91.49%	76.60%	74.47%	91.49%	95.74%
4	60% FROM DIRECT ATTAINMENT THROUGH END SEMESTER EXAM	40.85%	54.89%	45.96%	44.68%	54.89%	57.45%
5	40% + 60% OF DIRECT ATTAINMENT	78.30%	83.83%	84.26%	80.43%	80.43%	95.74%
6	90% FROM DIRECT ATTAINMENT	70.47%	75.45%	75.83%	72.38%	72.38%	86.17%
7	% OF INDIRECT ATTAINMENT THROUGH COURSE END SURVEY	95.74%	95.74%	93.55%	93.48%	95.74%	96.81%
8	10% FROM INDIRECT ATTAINMENT THROUGH COURSE END SURVEY	9.57%	9.57%	9.35%	9.35%	9.57%	9.68%
9	90% FROM DIRECT + 10% FROM INDIRECT FOR CO ATTAINMENT	80.04%	85.02%	85.18%	81.73%	81.96%	95.85%
10	ATTAINMENT LEVEL	3	3	3	3	3	3

AMET Deemed to be University
DEPARTMENT OF MECHANICAL ENGINEERING
Direct PO Attainment

Program Name:	**B.E. Mechanical Engineering**	**Total Students:**	**82**
Sub. Code & Name :	**UBMCC09 & Strength of materials**	**0**	**BC213**
Year & Sem	**II & IV**	**Year & Batch:**	**II & B3**

CO	Statement	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2	PSO3
BC213.1	Apply the concept of stress-strain relationship on the bars with different loading conditions.	3	2	2	0	0	0	0	0	0	0	0	3	2	0	0
BC213.2	Analyze the principal plane and stresss in oblique section by numerical and graphical methods	3	3	3	0	0	0	0	0	0	0	0	3	2	0	0
BC213.3	Construct shear force and bending moment diagrams of various beams under various load conditions.	3	2	2	0	0	0	0	0	0	0	0	3	3	0	0
BC213.4	Analyse the bending stress of various section of beams.	3	2	2	0	0	0	0	0	0	0	0	3	3	0	0
BC213.5	Categorise the maximum power and torque transmitted through Solid shafts and Hollow shafts	3	3	3	0	0	0	0	0	0	0	0	3	3	0	0
BC213.6	Identify the maximum shock absorbing capacity of closed and open coil springs for realtime applications	3	2	2	0	0	3	0	3	0	0	0	3	2	0	0
	BC213	3	2	2	0	0	3	0	3	0	0	0	3	3	0	0

CO	Statement	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2	PSO3
BC213.1	Apply the concept of stress-strain relationship on the bars with different loading conditions.	2.53	1.68	1.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.53	1.68	0.00	0.00
BC213.2	Analyze the principal plane and stresss in oblique section by numerical and graphical methods	2.32	2.32	2.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.32	1.54	0.00	0.00
BC213.3	Construct shear force and bending moment diagrams of various beams under various load conditions.	1.95	1.30	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.95	1.95	0.00	0.00
BC213.4	Analyse the bending stress of various section of beams.	1.79	1.19	1.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.79	1.79	0.00	0.00
BC213.5	Categorise the maximum power and torque transmitted through Solid shafts and Hollow shafts	1.12	1.12	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.12	0.00	0.00
BC213.6	Identify the maximum shock absorbing capacity of closed and open coil springs for realtime applications	1.93	1.29	1.29	0.00	0.00	1.93	0.00	1.93	0.00	0.00	0.00	1.93	1.29	0.00	0.00
	Average	1.94	1.48	1.48	0.00	0.00	1.93	0.00	1.93	0.00	0.00	0.00	1.94	1.56	0.00	0.00

CO	CO1	CO2	CO3	CO4	CO5	CO6
CO DIRECT ATTAINMENT IN %	84.22%	77.20%	65.12%	59.63%	37.24%	64.46%
CO DIRECT ATTAINMENT IN LEVEL	3	3	2	1	0	2

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2	PSO3
PO MAPPED LEVEL	3.00	2.33	2.33	0.00	0.00	3.00	0.00	3.00	0.00	0.00	0.00	3.00	2.50	0.00	0.00
PO ATTAINED LEVEL	1.94	1.48	1.48	0.00	0.00	1.93	0.00	1.93	0.00	0.00	0.00	1.94	1.56	0.00	0.00

Continuous Internal Assessment (CIA)
DEPARTMENT OF MECHANICAL ENGINEERING
Direct PO Attainment

Program Name:	**B.E. Mechanical Engineering**	**Total Students:**	**86**
Sub. Code & Name :	**UBMCC06 & Material Science**		
Year & Sem	**II & III**	**Year & Batch:**	**II & 3**

CO	Statement	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2	PSO3
.1	Organize the constitution alloys and phase diagrams to identify the metal properti	3	0	0	0	0	0	0	0	0	0	0	2	0	0	3
.2	Infer the material properties by various material testing techniques	3	0	2	0	0	0	0	0	0	0	0	2	0	0	3
.3	Classify the various ferrous and non-ferrous metals with its application	3	0	2	0	0	0	0	0	0	0	0	2	0	0	3
.4	Illustrate the various heat treatment process and its significance	3	0	3	0	0	0	0	0	0	0	0	2	0	0	3
.5	Examine the various non-metallic materials with its applications	3	0	0	0	0	0	0	0	0	0	0	3	0	0	3
.6	Analyze the knowledge of material science on material selection for specific requirements	3	0	3	0	0	3	0	0	0	0	0	3	0	0	3
0		3	0	3	0	0	3	0	0	0	0	0	2	0	0	3

CO	Statement	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2	PSO3
.1	Organize the constitution alloys and phase diagrams to identify the metal properti	1.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.26	0.00	0.00	1.89
.2	Infer the material properties by various material testing techniques	1.27	0.00	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.84	0.00	0.00	1.27

.3	Classify the various ferrous and non-ferrous metals with its application	1.61	0.00	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.07	0.00	0.00	1.61
.4	Illustrate the various heat treatment process and its significance	1.69	0.00	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.13	0.00	0.00	1.69
.5	Examine the various non-metallic materials with its applications	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.49	0.00	0.00	1.49
.6	Analyze the knowledge of material science on material selection for specific requirements	2.69	0.00	2.69	0.00	0.00	2.69	0.00	0.00	0.00	0.00	0.00	2.69	0.00	0.00	2.69
	Average	1.77	0.00	1.57	0.00	0.00	2.69	0.00	0.00	0.00	0.00	0.00	1.41	0.00	0.00	1.77

CO	CO1	CO2	CO3	CO4	CO5	CO6
CO DIRECT ATTAINMENT IN %	62.95%	42.23%	53.74%	56.26%	49.56%	89.53%
CO DIRECT ATTAINMENT IN LEVEL	2	0	1	1	0	3

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2	PSO3
PO MAPPED LEVEL	3.00	0.00	2.50	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	2.33	0.00	0.00	3.00
PO ATTAINED LEVEL	1.77	0.00	1.57	0.00	0.00	2.69	0.00	0.00	0.00	0.00	0.00	1.41	0.00	0.00	1.77

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DEPARTMENT OF MECHANICAL ENGINEERING			PROGRAM NAME		B.E. Mechanical Engineering		SUBJECT HANDLING STAFF :		Dr. K. Umanath		
Year and Sem	II & IV		Year and Batch		II & B3						
Sub. Code & Name :	UBMCC09 & Strength of materials		Academic Year		2017-2018		Attainment Level				
Subject threshold	51.87%		CAY-1	CAY-2	CAY-3		Level 1	Level 2	Level 3		
No of Students	82		53.40%	52.20%	50.00%		50%-60%	60%-70%	>70%		

		CO ATTAINMENT					
S.No	Process for CO attainment	CO1	CO2	CO3	CO4	CO5	CO6
1	% OF DIRECT ATTAINMENT THROUGH INTERNAL EXAMS	92.68%	91.46%	89.02%	86.59%	42.68%	78.05%
2	40% FROM DIRECT ATTAINMENT value THROUGH INTERNAL EXAMS	**37.07**	**36.59**	**35.61**	**34.63**	**17.07**	**31.22**
3	% OF DIRECT ATTAINMENT THROUGH END SEMESTER EXAM	79.27%	67.07%	46.34%	37.80%	25.61%	52.44%
4	60% FROM DIRECT ATTAINMENT value THROUGH END SEMESTER EXAM	**47.56**	**40.24**	**27.80**	**22.68**	**15.37**	**31.46**
5	40% + 60% OF DIRECT ATTAINMENT	**84.63%**	**76.83%**	**63.41%**	**57.32%**	**32.44%**	**62.68%**
6	90% FROM DIRECT ATTAINMENT VALUE	**76.17**	**69.15**	**57.07**	**51.59**	**29.20**	**56.41**
7	% OF INDIRECT ATTAINMENT THROUGH COURSE END SURVEY	80.49%	80.49%	80.49%	80.49%	80.49%	80.49%
8	10% FROM INDIRECT ATTAINMENT value THROUGH COURSE END SURVEY	**8.05**	**8.05**	**8.05**	**8.05**	**8.05**	**8.05**
9	DIRECT ATTAINMENT VALUE = 90% FROM DIRECT + 10% FROM INDIRECT FOR CO ATTAINMENT	**84.22%**	**77.20%**	**65.12%**	**59.63%**	**37.24%**	**64.46%**
10	DIRECT ATTAINMENT LEVEL	**3**	**3**	**2**	**1**	**0**	**2**