



SUPPORTING DOCUMENTS

CRITERIA NO :2 Teaching Learning and Evaluation

KEY INDICATOR:2.6 Student Performance and Learning Outcomes

METRIC NO.2.6.2 Attainment of Programme outcomes and course outcomes are evaluated by the institution.

Exhibit No:	Document Name	Page No.
2.6.2-A	CO Attainment	1
2.6.2- B	PO Attainment	8

CO Attainment

DEPARTMENT OF MECHATRONICS ENGINEERING
MEASUREMENT OF COURSE OUTCOMES ATTAINMENT

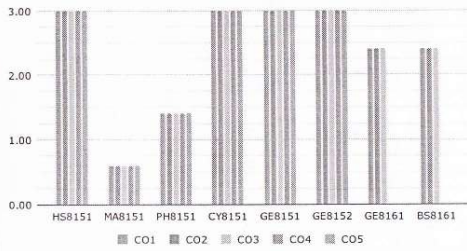
Regulation : 2017

Batch : 2017-2021

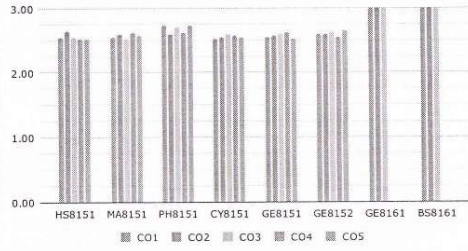
Academic Year : 2017-2018 - Odd

S.No	Semester	Course Code	Course Title	Direct Assessment (3 Point scale)					Indirect Assessment (3 Point scale)					Overall Attainment (3 point scale)					Weighted %
				CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
1	SEMESTER 1	HS8151	Communicative English	3.00	3.00	3.00	3.00	3.00	2.54	2.65	2.54	2.51	2.51	2.91	2.93	2.91	2.90	2.90	97%
2		MA8151	Engineering Mathematics I	0.60	0.60	0.60	0.60	0.60	2.54	2.59	2.51	2.62	2.57	0.99	1.00	0.98	1.00	0.99	33%
3		PH8151	Engineering Physics	1.40	1.40	1.40	1.40	1.40	2.73	2.59	2.70	2.62	2.73	1.67	1.64	1.66	1.64	1.67	55%
4		CY8151	Engineering Chemistry	3.00	3.00	3.00	3.00	3.00	2.51	2.54	2.59	2.57	2.54	2.90	2.91	2.92	2.91	2.91	97%
5		GE8151	Problem solving and Python Programming	3.00	3.00	3.00	3.00	3.00	2.54	2.57	2.59	2.62	2.51	2.91	2.91	2.92	2.92	2.90	97%
6		GE8152	Engineering Graphics	3.00	3.00	3.00	3.00	3.00	2.59	2.59	2.62	2.54	2.65	2.92	2.92	2.92	2.91	2.93	97%
7		GE8161	Problem solving and Python Programming Laboratory	2.40	2.40	2.40			3.00	3.00	3.00			2.52	2.52	2.52			84%
8		BS8161	Physics and Chemistry Laboratory	2.40	2.40	2.40			3.00	3.00	3.00			2.52	2.52	2.52			84%

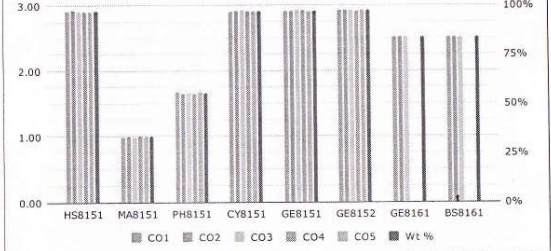
Direct CO Attainment



Indirect CO Attainment



Overall CO Attainment (80% DA + 20% IA)



COURSE OUTCOMES ATTAINMENT TARGET LEVEL (RUBRICS) - DIRECT ASSESSMENT

60%-100% OF STUDENTS WHO HAVE SECURED MORE THAN OR EQUAL TO THE TARGET LEVEL 60%	SUBSTANTIAL-WEIGHTAGE 3
50%- 59% OF STUDENTS WHO HAVE SECURED MORE THAN OR EQUAL TO THE TARGET LEVEL 60%	MODERATE-WEIGHTAGE 2
40%- 49% OF STUDENTS WHO HAVE SECURED MORE THAN OR EQUAL TO THE TARGET LEVEL 60%	SLIGHT-WEIGHTAGE 1
< 40% OF STUDENTS WHO HAVE SECURED MORE THAN OR EQUAL TO THE TARGET LEVEL 60%	NO WEIGHTAGE - 0

INDIRECT ASSESSMENT

3	EXCELLENT
2	GOOD
1	MODERATE
0	POOR


 Programme Co-Ordinator


 Principal

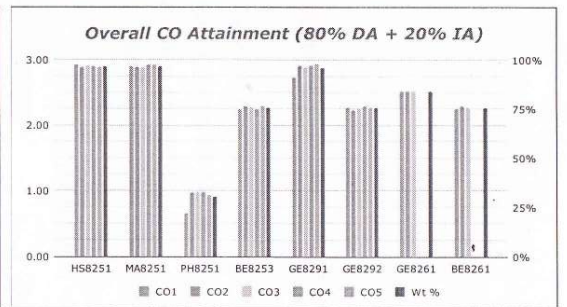
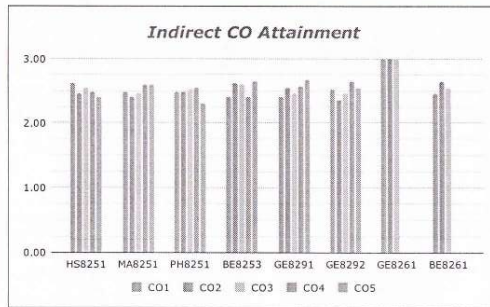
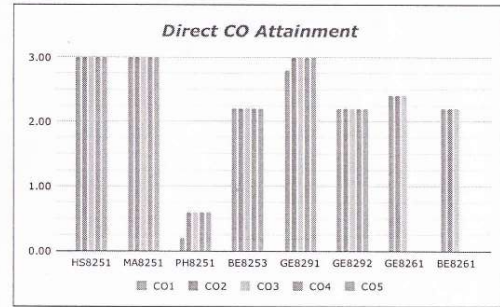
DEPARTMENT OF MECHATRONICS ENGINEERING
MEASUREMENT OF COURSE OUTCOMES ATTAINMENT

Regulation : 2017

Batch : 2017-2021

Academic Year : 2017-2018 - Even

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				CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
1	SEMESTER 2	HS8251	Technical English	3.00	3.00	3.00	3.00	3.00	2.62	2.46	2.54	2.49	2.41	2.92	2.89	2.91	2.90	2.88	97%
2		MA8251	Engineering Mathematics II	3.00	3.00	3.00	3.00	3.00	2.49	2.41	2.46	2.59	2.59	2.90	2.88	2.89	2.92	2.92	97%
3		PH8251	Materials Science	0.20	0.60	0.60	0.60	0.60	2.49	2.49	2.51	2.54	2.30	0.66	0.98	0.98	0.99	0.94	30%
4		BE8253	Basic Electrical, Electronics and Instrumentation Engineering	2.20	2.20	2.20	2.20	2.20	2.41	2.62	2.59	2.41	2.65	2.24	2.28	2.28	2.24	2.29	76%
5		GE8291	Environmental Science and Engineering	2.80	3.00	3.00	3.00	3.00	2.41	2.54	2.46	2.57	2.68	2.72	2.91	2.89	2.91	2.94	96%
6		GE8292	Engineering Mechanics	2.20	2.20	2.20	2.20	2.20	2.51	2.35	2.46	2.65	2.54	2.26	2.23	2.25	2.29	2.27	75%
7		GE8261	Engineering Practices Laboratory	2.40	2.40	2.40			3.00	3.00	3.00			2.52	2.52	2.52			84%
8		BE8261	Basic Electrical, Electronics and Instrumentation Engineering Laboratory	2.20	2.20	2.20			2.46	2.65	2.54			2.25	2.29	2.27			76%



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INDIRECT ASSESSMENT	
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[Signature]
Programme Co-Ordinator

[Signature]
Principal

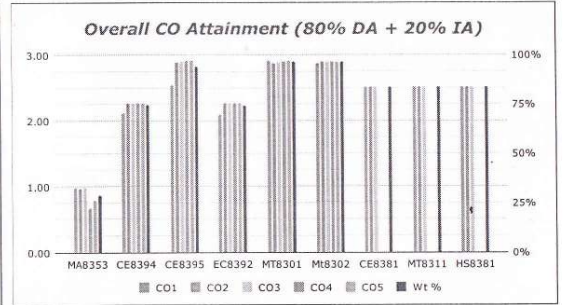
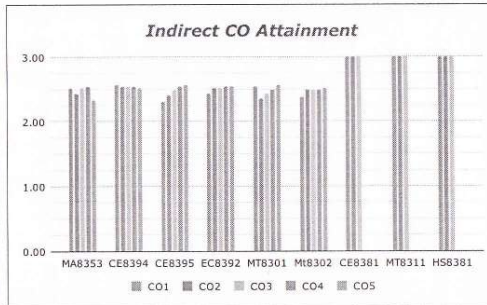
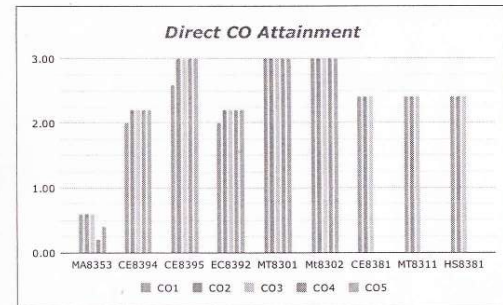
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				CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5		
1	SEMESTER 3	MA8353	Transforms and Partial Differential Equations	0.60	0.60	0.60	0.20	0.40	2.51	2.44	2.51	2.54	2.33	0.98	0.97	0.98	0.67	0.79	29%	
2		CE8394	Fluid Mechanics and Machinery	2.00	2.20	2.20	2.20	2.20	2.56	2.54	2.54	2.54	2.51	2.11	2.27	2.27	2.27	2.26	2.26	75%
3		CE8395	Strength of Materials for Mechanical Engineers	2.60	3.00	3.00	3.00	3.00	2.31	2.41	2.49	2.54	2.56	2.54	2.88	2.90	2.91	2.91	2.91	94%
4		EC8392	Digital Electronics	2.00	2.20	2.20	2.20	2.20	2.44	2.51	2.51	2.54	2.54	2.09	2.26	2.26	2.27	2.27	2.27	74%
5		MT8301	Electrical Machines and Drives	3.00	3.00	3.00	3.00	3.00	2.54	2.36	2.44	2.49	2.56	2.91	2.87	2.89	2.90	2.91	2.91	97%
6		MT8302	Analog Devices and Circuits	3.00	3.00	3.00	3.00	3.00	2.38	2.49	2.49	2.49	2.51	2.88	2.90	2.90	2.90	2.90	2.90	96%
7		CE8381	Strength of Materials and Fluid Mechanics & Machinery Laboratory	2.40	2.40	2.40			3.00	3.00	3.00			2.52	2.52	2.52				84%
8		MT8311	Electrical Machines and Drives Laboratory	2.40	2.40	2.40			3.00	3.00	3.00			2.52	2.52	2.52				84%
9		HS8381	Interpersonal Skills / Listening & Speaking	2.40	2.40	2.40			3.00	3.00	3.00			2.52	2.52	2.52				84%



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INDIRECT ASSESSMENT	
3	EXCELLENT
2	GOOD
1	MODERATE
0	POOR


 Programme Co-Ordinator


 Principal

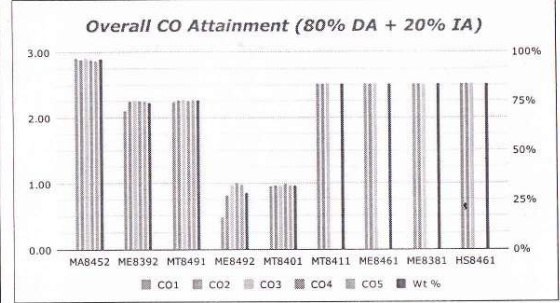
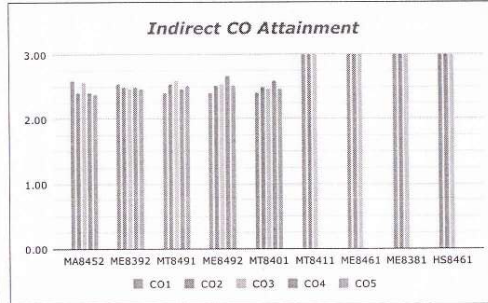
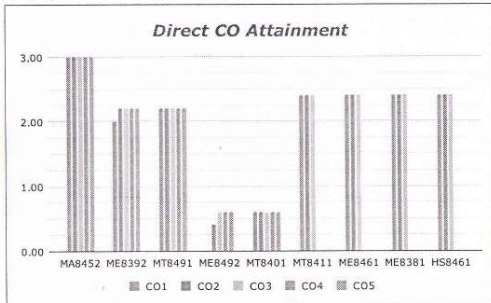
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1	SEMESTER 4	MA8452	Statistics and Numerical Methods	3.00	3.00	3.00	3.00	3.00	2.59	2.41	2.56	2.41	2.38	2.92	2.88	2.91	2.88	2.88	96%
2		ME8392	Manufacturing Technology	2.00	2.20	2.20	2.20	2.20	2.54	2.49	2.46	2.49	2.46	2.11	2.26	2.25	2.26	2.25	74%
3		MT8491	Microprocessors and Microcontrollers	2.20	2.20	2.20	2.20	2.20	2.41	2.54	2.59	2.46	2.51	2.24	2.27	2.28	2.25	2.26	75%
4		ME8492	Kinematics of Machinery	0.00	0.40	0.60	0.60	0.60	2.41	2.51	2.54	2.67	2.51	0.48	0.82	0.99	1.01	0.98	29%
5		MT8401	Thermodynamics and Heat Transfer	0.60	0.60	0.60	0.60	0.60	2.41	2.49	2.46	2.59	2.46	0.96	0.98	0.97	1.00	0.97	33%
6		MT8411	Microprocessors and Microcontrollers Laboratory	2.40	2.40	2.40			3.00	3.00	3.00			2.52	2.52	2.52			84%
7		ME8461	Manufacturing Technology Laboratory	2.40	2.40	2.40			3.00	3.00	3.00			2.52	2.52	2.52			84%
8		ME8381	Computer Aided machine Drawing	2.40	2.40	2.40			3.00	3.00	3.00			2.52	2.52	2.52			84%
9		HS8461	Advanced Reading and Writing	2.40	2.40	2.40			3.00	3.00	3.00			2.52	2.52	2.52			84%



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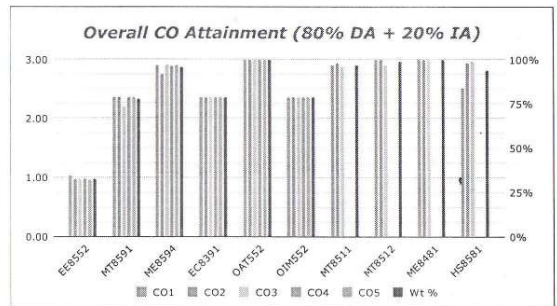
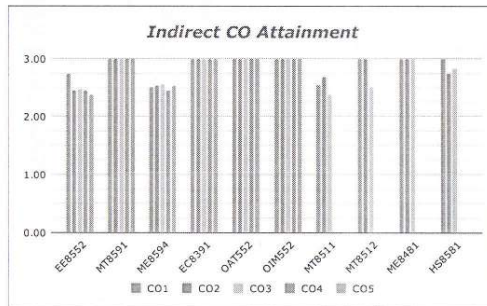
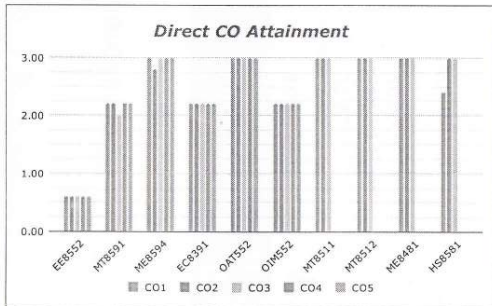
Program Co-ordinator
[Signature]

Principal
[Signature]

DEPARTMENT OF MECHATRONICS ENGINEERING
MEASUREMENT OF COURSE OUTCOMES ATTAINMENT

Regulation : 2017 Academic Year : 2019-2020 - Odd
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1	SEMESTER 5	EE8552	Power Electronics	0.60	0.60	0.60	0.60	0.60	2.74	2.44	2.47	2.44	2.38	1.03	0.97	0.97	0.97	0.96	33%
2		MT8591	Sensors and Instrumentation	2.20	2.20	2.00	2.20	2.20	3.00	3.00	3.00	3.00	3.00	2.36	2.36	2.20	2.36	2.36	78%
3		ME8594	Dynamics of Machines	3.00	2.80	3.00	3.00	3.00	2.50	2.53	2.56	2.44	2.53	2.90	2.75	2.91	2.89	2.91	96%
4		EC8391	Control System Engineering	2.20	2.20	2.20	2.20	2.20	3.00	3.00	3.00	3.00	3.00	2.36	2.36	2.36	2.36	2.36	79%
5		OAT552	Internal Combustion Engines	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	100%
6		OIM552	Lean Manufacturing	2.20	2.20	2.20	2.20	2.20	3.00	3.00	3.00	3.00	3.00	2.36	2.36	2.36	2.36	2.36	79%
7		MT8511	Power Electronics Laboratory	3.00	3.00	3.00			2.54	2.69	2.37			2.91	2.94	2.87			97%
8		MT8512	Sensors and Instrumentation Laboratory	3.00	3.00	3.00			3.00	3.00	2.50			3.00	3.00	2.90			99%
9		ME8481	Dynamics Laboratory	3.00	3.00	3.00			3.00	3.00	3.00			3.00	3.00	3.00			100%
10		HS8581	Professional Communication	2.40	3.00	3.00			3.00	2.75	2.83			2.52	2.95	2.97			94%



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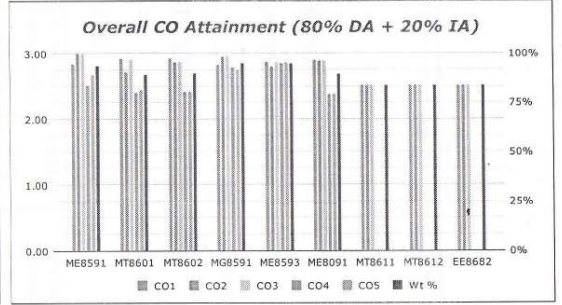
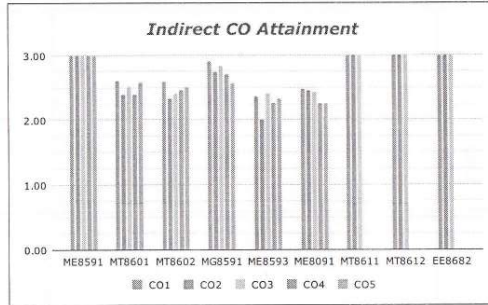
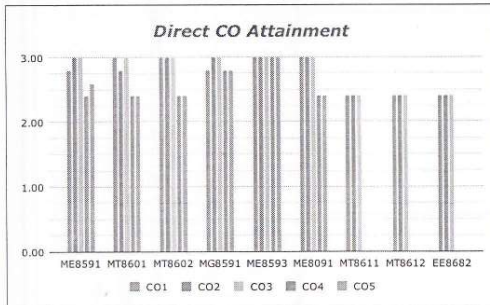
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1	SEMESTER 6	ME8591	Applied Hydraulics and Pneumatics	2.80	3.00	3.00	2.40	2.60	3.00	3.00	3.00	3.00	3.00	2.84	3.00	3.00	2.52	2.68	94%
2		MT8601	Design of Mechatronics System	3.00	2.80	3.00	2.40	2.40	2.61	2.39	2.52	2.39	2.58	2.92	2.72	2.90	2.40	2.44	89%
3		MT8602	Industrial Automation	3.00	3.00	3.00	2.40	2.40	2.60	2.33	2.40	2.47	2.50	2.92	2.87	2.88	2.41	2.42	90%
4		MG8591	Principles of Management	2.80	3.00	3.00	2.80	2.80	2.91	2.74	2.83	2.71	2.57	2.82	2.95	2.97	2.78	2.75	95%
5		ME8593	Design of Machine Elements	3.00	3.00	3.00	3.00	3.00	2.37	2.00	2.40	2.27	2.33	2.87	2.80	2.88	2.85	2.87	95%
6		ME8091	Automobile Engineering	3.00	3.00	3.00	2.40	2.40	2.49	2.46	2.43	2.26	2.26	2.90	2.89	2.89	2.37	2.37	89%
7		MT8611	Applied Hydraulics and Pneumatics Laboratory	2.40	2.40	2.40			3.00	3.00	3.00			2.52	2.52	2.52			84%
8		MT8612	Industrial Automation Laboratory	2.40	2.40	2.40			3.00	3.00	3.00			2.52	2.52	2.52			84%
9		EE8682	Design and fabrication Project	2.40	2.40	2.40			3.00	3.00	3.00			2.52	2.52	2.52			84%



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3	EXCELLENT
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Programme Co-Ordinator

Principal

Exhibit No: 2.6.2 - B

PO Attainment



DEPARTMENT OF MECHATRONICS ENGINEERING

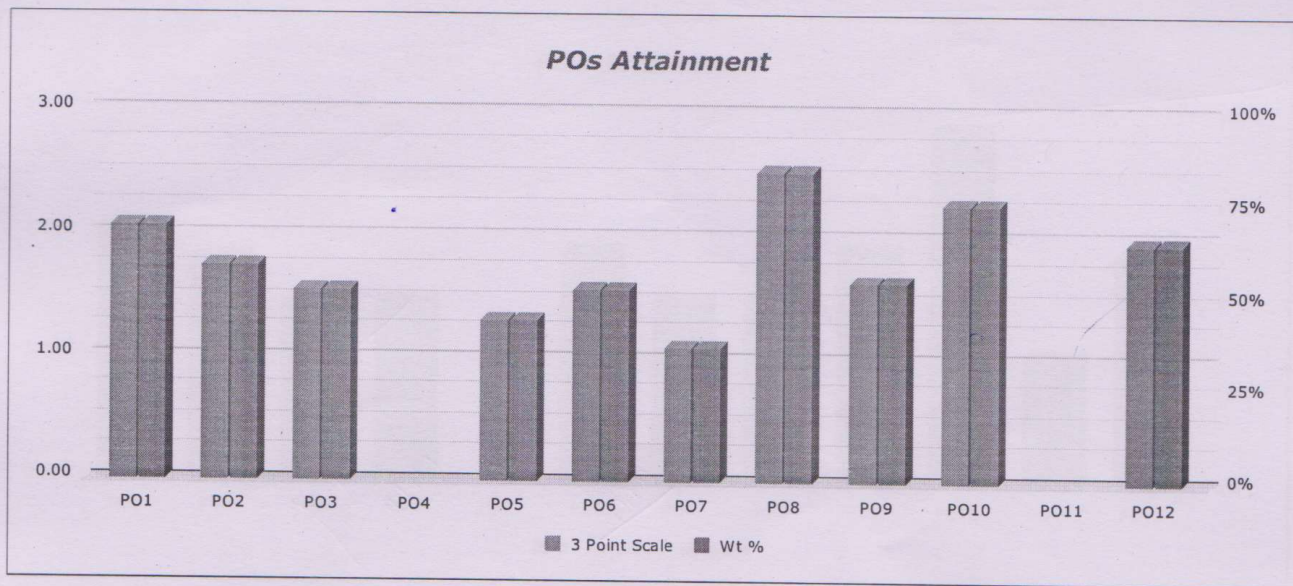
PROGRAMME OUTCOMES ATTAINMENT

Regulation : 2017

ACADEMIC YEAR : 2017-2018- ODD SEMESTER

Batch : 2017-2021

YEAR / SEMESTER	COURSE REFERENCE NUMBER	PROGRAMME OUTCOMES											
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
I YEAR / I SEMESTER	C101	0.97							2.52	2.52	2.91		2.91
	C102	0.99	0.99	0.66						0.66			0.66
	C103	1.66	1.21	0.99			1.21	1.10					1.10
	C104	2.13	1.94	1.70			1.94						
	C105	2.91	2.91	2.91							1.94		1.94
	C106	2.92				0.97						1.95	2.92
	C107	2.52				1.68				1.68			2.52
	C108	2.52								1.68			1.68
POs ATTAINMENT		2.08	1.77	1.57		1.33	1.57	1.10	2.52	1.64	2.27		1.96
WEIGHTED %		69%	59%	52%		44%	52%	37%	84%	55%	76%		65%



S. Srinivasan
 16/9/24
 PROGRAMME CO-ORDINATOR

N. Srinivasan
 PRINCIPAL
 16/9/24



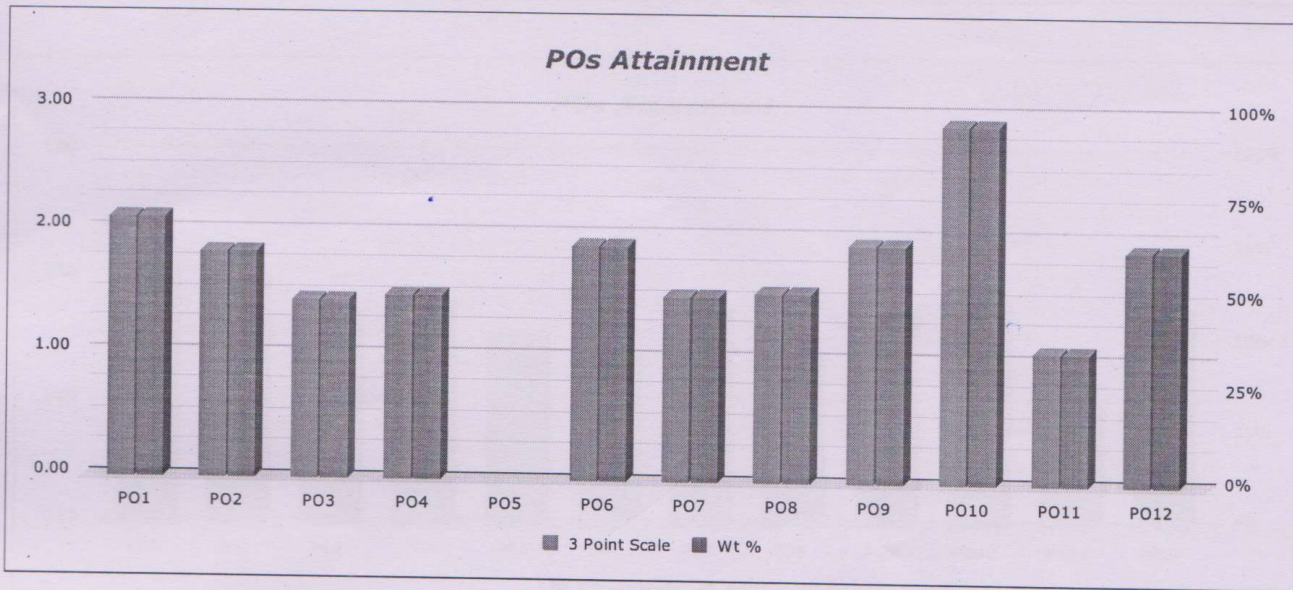
DEPARTMENT OF MECHATRONICS ENGINEERING
PROGRAMME OUTCOMES ATTAINMENT

Regulation : 2017

ACADEMIC YEAR : 2017-2018- EVEN SEMESTER

Batch : 2017-2021

YEAR / SEMESTER	COURSE REFERENCE NUMBER	PROGRAMME OUTCOMES											
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
I YEAR / II SEMESTER	C109								2.13	2.41	2.90		2.90
	C110	2.90	2.90	1.93						1.93			1.93
	C111	0.91	0.80	0.91									
	C112	1.70	0.75	1.13			1.49	1.01	1.51			1.51	1.52
	C113	1.92	2.48		1.92		2.87	2.48	0.97			1.20	2.87
	C114	2.26	2.26	1.81	1.05		1.36	1.01				0.50	1.81
	C115	2.52								1.68			1.40
	C116	2.52								1.68			0.84
POs ATTAINMENT		2.10	1.84	1.45	1.48		1.91	1.50	1.54	1.93	2.90	1.07	1.90
WEIGHTED %		70%	61%	48%	49%		64%	50%	51%	64%	97%	36%	63%



S. Jink
16/9/21
PROGRAMME CO-ORDINATOR

N. Senthil Kumar
PRINCIPAL
16/9/21



AKSHAYA

COLLEGE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai-AU ISO 9001:2015 Certified Institution)
 Kinathukadavu, Coimbatore - 642 109.

DEPARTMENT OF MECHATRONICS ENGINEERING

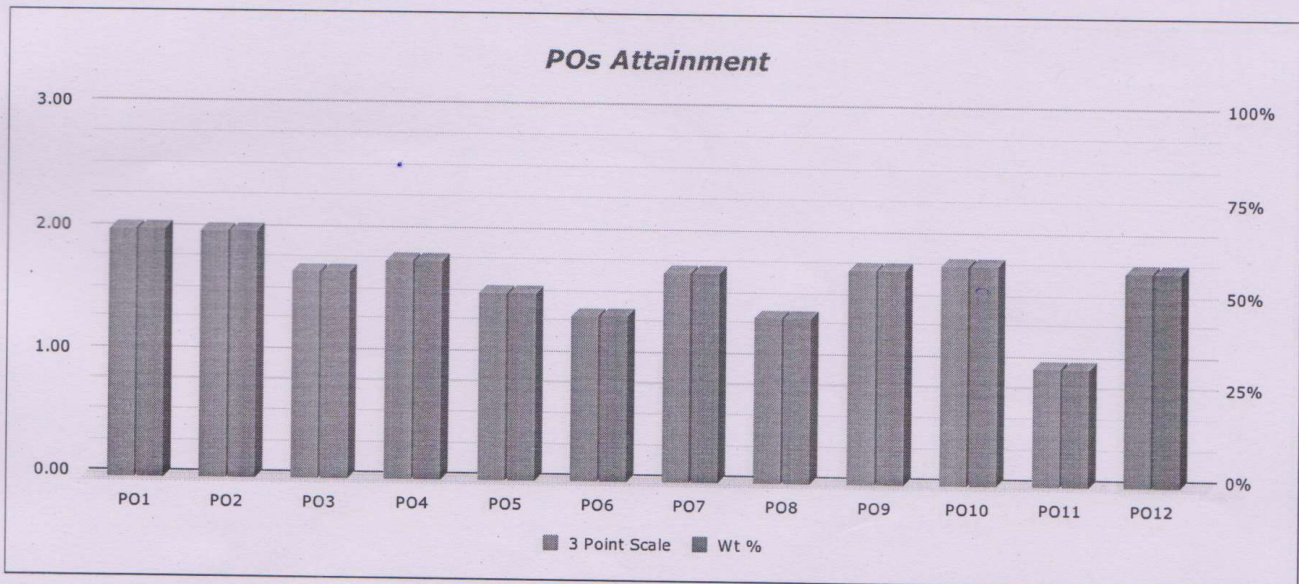
PROGRAMME OUTCOMES ATTAINMENT

Regulation : 2017

ACADEMIC YEAR : 2018-2019- ODD SEMESTER

Batch : 2017-2021

YEAR / SEMESTER	COURSE REFERENCE NUMBER	PROGRAMME OUTCOMES												
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
II YEAR / III SEMESTER	C201	0.88	0.88	0.77									0.88	
	C202	1.84	2.19	2.24	2.19	1.73	1.08	0.76	1.51				1.41	
	C203	2.83	2.83	2.10	2.10	1.93	1.94			2.66	1.89			
	C204	2.23		1.34	0.76	1.13	1.05	1.26	1.20				2.09	
	C205	1.69	1.28	1.55	0.96	1.20		1.91		0.97	0.96	0.97	0.97	
	C206	2.89	2.89	2.12	2.89			2.90						1.93
	C207	2.52								1.68				1.68
	C208	2.52				1.68				1.68				2.52
	C209	0.84									2.52			2.52
POs ATTAINMENT		2.03	2.01	1.69	1.78	1.53	1.35	1.71	1.35	1.75	1.79	0.97	1.75	
WEIGHTED %		68%	67%	56%	59%	51%	45%	57%	45%	58%	60%	32%	58%	



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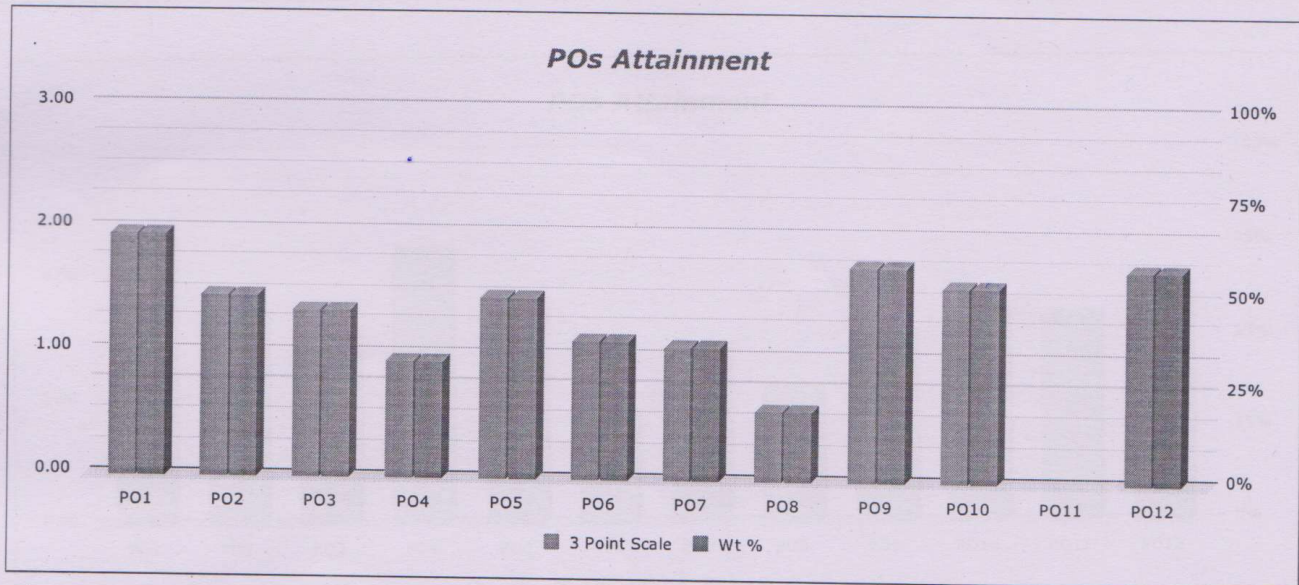
PROGRAMME OUTCOMES ATTAINMENT

Regulation : 2017

ACADEMIC YEAR : 2018-2019- EVEN SEMESTER

Batch : 2017-2021

YEAR / SEMESTER	COURSE REFERENCE NUMBER	PROGRAMME OUTCOMES											
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
II YEAR / IV SEMESTER	C210	2.89	2.89	1.93						1.93			0.96
	C211	2.23	1.50			1.48	0.74	1.50					1.48
	C212	2.26	1.36	2.27	1.51	1.51	1.51	0.76	0.75				0.75
	C213	0.86	0.86	0.57	0.57	0.67			0.29				0.57
	C214	0.98	0.73	0.65	0.76	0.73		0.98	0.65		0.65		
	C215	2.52				1.68				1.68			2.52
	C216	2.52				1.68				1.68			2.52
	C217	2.52				2.52				1.68			2.52
	C218	0.84									2.52		2.52
POs ATTAINMENT		1.96	1.47	1.35	0.95	1.47	1.13	1.08	0.56	1.74	1.59		1.73
WEIGHTED %		65%	49%	45%	32%	49%	38%	36%	19%	58%	53%		58%



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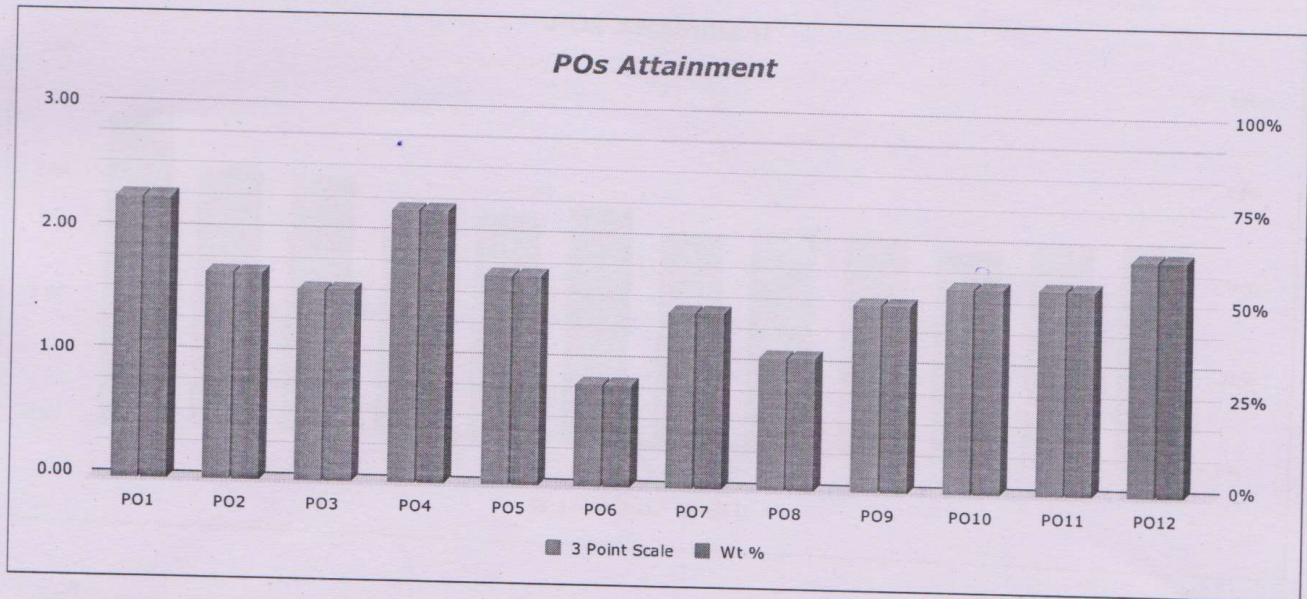
PROGRAMME OUTCOMES ATTAINMENT

Regulation : 2017

ACADEMIC YEAR : 2019-2020- ODD SEMESTER

Batch : 2017-2021

YEAR / SEMESTER	COURSE REFERENCE NUMBER	PROGRAMME OUTCOMES											
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
III YEAR / V SEMESTER	C301	0.52	0.40	0.20		0.40	0.33	0.20	0.27	0.20	0.20		0.20
	C302	2.33	1.74	1.55		1.97		1.55		1.57	1.57		1.55
	C303	2.87	2.48	2.29	2.29				0.96	1.91	0.96		0.96
	C304	2.36	1.97	1.57									1.57
	C305	3.00	2.25	2.00	2.33	2.25		3.00	2.00		2.00		3.00
	C306		0.94	0.94				0.94	1.10		1.10		1.26
	C307	2.91				1.94				1.94			2.91
	C308	2.97				1.98				1.98			2.97
	C309	2.67	2.00	2.33	2.00	1.67	1.33				3.00	1.67	2.00
	C310	0.94									2.81		2.81
POs ATTAINMENT		2.28	1.68	1.55	2.21	1.70	0.83	1.42	1.08	1.52	1.66	1.67	1.92
WEIGHTED %		76%	56%	52%	74%	57%	28%	47%	36%	51%	55%	56%	64%



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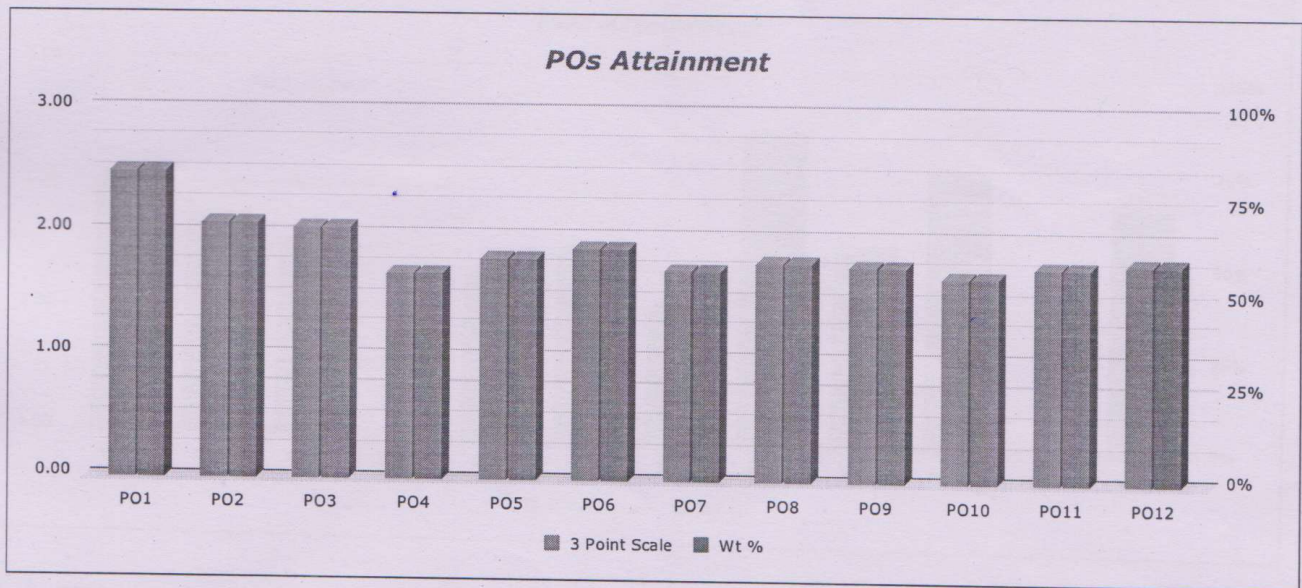
PROGRAMME OUTCOMES ATTAINMENT

Regulation : 2017

ACADEMIC YEAR : 2019-2020- EVEN SEMESTER

Batch : 2017-2021

YEAR / SEMESTER	COURSE REFERENCE NUMBER	PROGRAMME OUTCOMES											
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
III YEAR / VI SEMESTER	C311	2.44	1.85		1.30				1.30		1.69		1.69
	C312	1.80		1.52	1.13	2.11			0.89				1.96
	C313	2.70	1.61	1.76	1.81	1.45	1.76	1.76	1.92				1.25
	C314						1.90	1.33	2.85	2.85	1.90	1.90	1.15
	C315	2.85	2.47	2.09	1.90				1.90	0.95	0.95		1.90
	C316	2.68	1.98	2.37	1.44	1.44	1.40	1.24	1.17	0.88	1.32	0.88	1.21
	C317	2.52				1.68				1.68			1.96
	C318	2.52				1.68				1.68			2.52
	C319	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52
POs ATTAINMENT		2.51	2.09	2.05	1.69	1.81	1.90	1.72	1.79	1.76	1.68	1.77	1.80
WEIGHTED %		84%	70%	68%	56%	60%	63%	57%	60%	59%	56%	59%	60%



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