	M.A.M. SCHOOL OF ENGINEERING	
	Accredited by NAAC Approved by AICTE, New Delhi; Affiliated to Anna University, Chennai	
	Siruganur, Trichy -621 105.	www.mamse.in

2.6.2 Attainment of Programme outcomes and course Outcomes are evaluated by the Institution


INDEX

S.No	Content	P.No
1.	Method for Attainment of Programme Outcomes and Course Outcomes are evaluated by the Institution	2
2.	Flowchart for method of Attainment	3
3.	Sample Theory Course Outcome Attainment	4
4.	Sample Theory Programme Outcome Attainment	6
5.	Sample Practical Outcome Attainment	7
6.	Consolidated Course Outcome Attainment for the batch 2017-2021	11
7.	Consolidated Programme Outcome Attainment for the batch 2017-2021	13
8.	Sample Programme End Survey	17

PRINCIPAL

PRINCIPAL

**M.A.M. SCHOOL OF ENGINEERING
SIRIGANUR, TIRUCHIRAPPALLI-621 105**

	M.A.M. SCHOOL OF ENGINEERING	
	Accredited by NAAC	
	Approved by AICTE, New Delhi; Affiliated to Anna University, Chennai	
	www.mamse.in	

Method for Attainment of Programme Outcomes and Course Outcomes are evaluated by the Institution

The following tools and measures are used for Course Outcome (COs), Program Outcome (POs) and Program Specific Outcome (PSOs) are mentioned below.

Attainment of Course Outcome

The following attributes used for assessing Theory Internal examination are Continuous Internal Assessment -1(CIA-1), Continuous Internal Assessment-2 (CIA-2), Model and Assignment (AS). Whereas the no of experiments conducted for practicals and no of reviews attributes are used for assessing the practical attainment. For assessing the University examination, University Mark alone is used. This attributes is to ensure that students have achieved desired level of competencies at module level. The performance of the student in answering each question, mapping is carried out with the respective COs for assessing the attainment level of the specific CO of the subject and evaluate, whether corresponding COs are achieved or not.

Average attainment in direct method for COs is obtained through University Examination (80%) + internal assessment (20%). Indirect assessment for COs strategies are implemented by embedding them in Course End Survey.

Attainment of Programme Outcome

The program outcomes and Program Specific outcomes are assessed with the help of course outcomes of the relevant courses through direct and indirect methods. Direct method in attainment is calculated with the average attainment of POs and PSOs with the no of courses mapped with the outcomes. Average attainment in indirect method is done with the Average of (Alumni survey + Exit survey). The following function is used to calculate the average attainment of each PO.

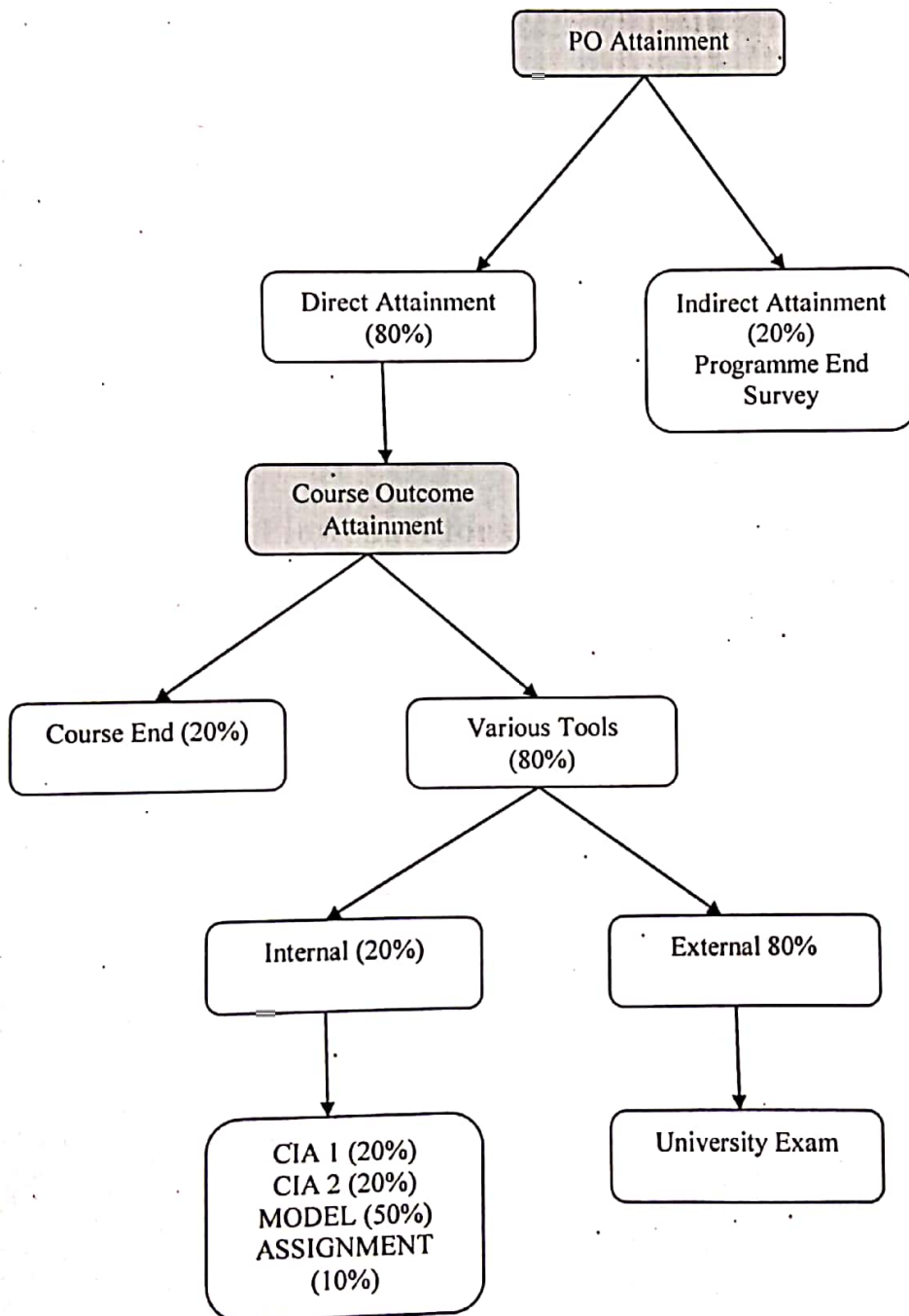
PO /PSO Attainment (%) = (weightage: 80%) x (Average attainment in direct method) + (weightage: 20%) x (Average attainment in indirect method)


PRINCIPAL

PRINCIPAL

M.A.M. SCHOOL OF ENGINEERING
SIRIGANUR, TIRUCHIRAPPALLI-621 105.

Flowchart for method of PO & CO Attainment




PRINCIPAL

PRINCIPAL
M.A.M. SCHOOL OF ENGINEERING
SIRIGANUR, TIRUCHIRAPPALLI - 621 105.



M.A.M. SCHOOL OF ENGINEERING

Accredited by NAAC

Approved by AICTE, New Delhi; Affiliated to Anna University, Chennai

Siruganur, Trichy -621 105.

www.mamse.in

Sample Theory Course Attainment

Subject Code/ Course Code/Course Name/Sem/Year: MG8091 /C410/ Entrepreneurship Development/VIII/IV

S.No	Register Number	Name of the Student	IAT 1	IAT 2	Model	Assignment	CO1	CO2	CO3	CO4	CO5	Univ RES	
1.	812117115002	AHMED RIFATH S	90	95	100	86	96	94	96	98	98	A+	90
2.	812117115003	BALAJI A	88	47	85	81	84	89	84	82	82	B+	70
3.	812117115004	BALAKRISHNAN T	85	82	80	78	78	89	78	72	77	B+	70
4.	812117115005	DEEPAK M	85	87	95	72	88	92	89	95	86	A	80
5.	812117115006	HARIHARADASS G	72	75	76	73	74	76	74	86	71	A	80
6.	812117115008	HASAN HARUN A	77	81	85	78	82	85	83	87	77	A	80
7.	812117115010	JAGATHEESWARAN K	78	70	77	85	77	82	77	83	73	A	80
8.	812117115011	MAGESHWARAN N	80	88	92	78	70	88	88	87	87	A+	90
9.	812117115012	MOHAMED ASHIB N	80	86	95	79	92	89	84	92	92	A+	90
10.	812117115013	MOHAMED FAHATH S	25	0	0	79	17	16	16	13	13	UA	0
11.	812117115014	MOHAMED FAHEES M E	85	78	97	79	94	91	89	92	97	B+	70
12.	812117115015	MOHAMED ITHYAS I	85	40	97	81	93	91	93	97	92	A	80
13.	812117115016	MOHAMMED HUSSAIN M R	95	97	100	82	96	97	96	97	97	A	80
14.	812117115017	MOHAMMED NOWFULL N	95	92	100	82	97	95	96	97	97	A+	90
15.	812117115018	NIYAS AHAMED S	70	80	100	82	88	92	89	97	97	A	80
16.	812117115019	PARTHIBAN R	30	28	0	86	18	20	19	14	14	UA	0
17.	812117115022	RAJKUMAR M	80	89	86	84	85	87	81	88	83	A	80
18.	812117115024	SELVAMANI A	82	88	100	92	94	94	93	99	99	A+	90
19.	812117115026	SOWNDARYA L	85	88	97	90	92	93	90	98	98	A+	90
20.	812117115028	SURIYAPRAKASH S	72	70	78	84	75	80	76	88	73	B+	70
21.	812117115031	THIRUNEELAN A	79	76	88	75	84	86	84	86	76	A+	90
22.	812117115032	VARSHINI T	84	89	88	78	85	92	85	82	77	A+	90
23.	812117115302	DHANUSH R M	89	40	86	78	83	89	86	82	87	A	80
24.	812117115303	PRAVEEN S	91	87	80	90	81	89	85	79	79	A	80
25.	812117115304	SUBASH CHANDRAN R	70	75	92	80	85	90	77	87	87	A+	90



M.A.M. SCHOOL OF ENGINEERING

Accredited by NAAC

Approved by AICTE, New Delhi; Affiliated to Anna University, Chennai

Siruganur, Trichy -621 105.

www.mamse.in


Average Marks	80	83	80	83	80		76
No.of students achieved more or equal 60%	23	23	23	23	23	>= avg.	23
% of students achieved more or equal 60%	92	92	92	92	92	%	92
Attainment level	3	3	3	3	3		3

Attainment level	Assessment Type	CO 1	CO 2	CO 3	CO 4	CO 5
Attainment level 1: 50% of students scoring more than the average marks.	Internal Assessment	3	3	3	3	3
Attainment level 2: 60% of students scoring more than the average marks.	University Exam	3	3	3	3	3
Attainment level 3: 70% of students scoring more than the average marks.		Y	Y	Y	Y	Y
ASSESMENT TOOL		CO1	CO2	CO3	CO4	CO5
INTERNAL ASSESMENT (INTERNAL TESTS)		3	3	3	3	3
INTERNAL ASSESMENT (UNIV EXAMS)		3.00	3.00	3.00	3.00	3.00
ATTAINMENT LEVEL (20% INTERNAL)		0.6	0.6	0.6	0.6	0.6
ATTAINMENT LEVEL (80% UNIV.EXAMS)		2.4	2.4	2.4	2.4	2.4
ATTAINMENT LEVEL (80% UNIV.EXAMS)+(20% INTERNAL)		3	3	3	3	3
ATTAINMENT LEVEL (80%)		2.4	2.4	2.4	2.4	2.4
COURSE END SURVEY (100%)		2.20	2.36	2.36	2.20	2.40
COURSE END SURVEY (20%)		0.44	0.47	0.47	0.44	0.48
TOTAL ATTAINMENT		2.84	2.87	2.87	2.84	2.88

M. Suba Pradeep
Faculty

Suba Pradeep
HOD
Head of the Department
Dept. of Mechatronics Engineering
M.A.M.School of Engineering
Siruganur, Tiruchirappalli-621 105.

Suba Pradeep
PRINCIPAL
PRINCIPAL
M.A.M. SCHOOL OF ENGINEERING
SIRIGANUR, TIRUCHIRAPPALLI-621 105.


	M.A.M. SCHOOL OF ENGINEERING	
	Accredited by NAAC	
	Approved by AICTE, New Delhi; Affiliated to Anna University, Chennai	
	Siruganur, Trichy -621 105.	www.mamse.in


Sample Theory Program Outcome Attainment

Course Outcome (CO)		Program Outcome (PO)												
Course Code /	Direct CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
MG8091/ENTREPRENEURSHIP DEVELOPMENT														
C410.1	2.40	1	2	2	-	-	2	2	2	2	-	-	1	-
C410.2	2.40	1	2	2	-	-	3	2	1	3	-	-	-	-
C410.3	2.40	1	2	3	-	-	2	2	3	3	1	1	-	-
C410.4	2.40	1	2	3	-	-	3	2	3	2	-	-	-	-
C410.5	2.40	1	2	1	-	-	1	2	2	2	-	-	-	2
		5.00	10.00	11.00	0.00	0.00	11.00	10.00	11.00	12.00	1.00	1.00	1.00	2.00
Target PO		1.00	2.00	2.20	0.00	0.00	2.20	2.00	2.20	2.40	1.00	1.00	1.00	2.00
		2.40	4.80	4.80	0.00	0.00	4.80	4.80	4.80	4.80	0.00	0.00	2.40	0.00
		2.40	4.80	4.80	0.00	0.00	7.20	4.80	2.40	7.20	0.00	0.00	0.00	0.00
		2.40	4.80	7.20	0.00	0.00	4.80	4.80	7.20	7.20	2.40	2.40	0.00	0.00
		2.40	4.80	7.20	0.00	0.00	7.20	4.80	7.20	4.80	0.00	0.00	0.00	0.00
		2.40	4.80	2.40	0.00	0.00	2.40	4.80	4.80	4.80	0.00	0.00	0.00	4.80
		12.00	24.00	26.40	0.00	0.00	26.40	24.00	26.40	28.80	2.40	2.40	2.40	4.80
Attained PO		2.40	2.40	2.40	0.00	0.00	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40

M. Suba Pradeep
Faculty


HOD
Head of the Department
Dept. of Mechatronics Engineering
M.A.M. School of Engineering
Siruganur, Tiruchirappalli-621 105.


PRINCIPAL
PRINCIPAL
M.A.M. SCHOOL OF ENGINEERING
SIRIGANUR, TIRUCHIRAPPALLI-621 105.

	M.A.M. SCHOOL OF ENGINEERING	
	Accredited by NAAC	
	Approved by AICTE, New Delhi; Affiliated to Anna University, Chennai	www.mamse.in
	Siruganur, Trichy -621 105.	

Sample Practical Course Attainment

Subject Code/ Course Code/Course Name/Sem/Year: MT8512 /C410/ SENSORS & INSTRUMENTATION LAB/V/III

S.NO	REG.NO	Name of the Student	E1	E2	E3	E4	E5	E6	E7	E8	E9
		Marks out of >>	50	50	50	50	50	50	50	50	50
		Co's >>	CO3	CO3	CO2	CO2	CO3	CO1	CO1	CO4	CO4
1	812117115002	Ahmed Rifath.S	45	45	43	46	44	41	44	42	46
2	812117115003	A.Balaji	40	42	48	46	40	45	40	42	44
3	812117115004	Balakrishnana T	48	42	46	48	48	42	48	42	42
4	812117115005	M.Deepek	46	41	42	45	46	40	46	41	46
5	812117115006	Hariharadas G	42	40	40	42	42	45	42	40	46
6	812117115008	Hasan Harun A	42	50	40	42	42	40	42	50	44
7	812117115010	Jagatheeswaran.K	44	46	40	41	44	48	44	46	40
8	812117115011	Mageshwaran N	46	44	46	40	46	47	46	44	42
9	812117115012	Mohamed Ashib.N	42	42	48	50	42	43	42	42	42
10	812117115013	Mohamed Fahath S	40	46	46	46	40	45	40	46	42
11	812117115014	Mohamed Fahees ME	40	46	42	44	40	42	40	46	42
12	812117115015	Mohamed Ithiyas I	42	44	42	42	42	42	46	44	41
13	812117115016	M.R.Mohamed Hussain	44	40	46	46	44	40	48	40	40
14	812117115017	Mohammed Nowfull.N	46	42	42	46	46	48	46	42	50
15	812117115018	Niyas Ahamed S	48	42	40	44	48	44	42	42	46
16	812117115019	Parthiban R	40	42	48	46	40	45	42	42	44
17	812117115022	Raj Kumar.M	48	42	46	48	48	42	46	42	42



M.A.M. SCHOOL OF ENGINEERING

Accredited by NAAC


Approved by AICTE, New Delhi; Affiliated to Anna University, Chennai

Siruganur, Trichy -621 105.

www.mamse.in

18	812117115024	Selvamani A	46	41	42	45	46	40	42	41	42
19	812117115026	Sowndarya L	42	40	40	40	42	45	40	40	46
20	812117115028	Suriyaprakash S	42	50	40	48	42	40	42	50	42
21	812117115031	Thiruncelan A	44	46	40	46	44	48	44	46	40
22	812117115032	Varshini.T	46	44	46	40	46	47	46	44	50
23	812117115302	Dhanush R M	42	42	48	50	42	43	42	42	46
24	812117115303	Praveen	40	46	46	46	40	45	40	46	45
25	812117115304	Subash Chandran	40	46	42	44	40	42	40	46	42

S.NO	REG.NO	Name of the Student	E1	E2	E3	E4	E5	E6	E7
		Marks out of >>	50	50	50	50	50	50	50
		Co's >>	CO3	CO3	CO2	CO2	CO3	CO1	CO1
1	812117115002	Ahmed Rifath.S	90	86	129	46	88	O	99
2	812117115003	A.Balaji	82	90	131	46	80	A+	90
3	812117115004	Balakrishnana T	90	87	126	48	96	O	99
4	812117115005	M.Deepek	87	82	127	45	92	O	99
5	812117115006	Hariharadas G	82	90	131	42	84	A	80
6	812117115008	Hasan Harun A	92	81	134	42	84	A	80
7	812117115010	Jagatheeswaran.K	90	80	134	41	88	A	80
8	812117115011	Mageshwaran N	90	96	133	40	92	O	99
9	812117115012	Mohamed Ashib.N	84	94	127	50	84	A+	90
10	812117115013	Mohamed Fahath S	86	91	133	46	80	A+	90
11	812117115014	Mohamed Fahees ME	86	84	130	44	80	A	80
12	812117115015	Mohamed Ithiyas I	86	82	127	42	88	A+	90

	M.A.M. SCHOOL OF ENGINEERING	
	Accredited by NAAC	
	Approved by AICTE, New Delhi; Affiliated to Anna University, Chennai	
	Siruganur, Trichy -621 105.	www.mamse.in

13	812117115016	M.R.Mohamed Hussain	84	91	120	46	92	O	99
14	812117115017	Mohammed Nowfull.N	88	82	140	46	92	O	99
15	812117115018	Niyas Ahamed S	90	88	132	44	90	A+	90
16	812117115019	Parthiban R	82	94	131	46	82	A+	90
17	812117115022	Raj Kumar.M	90	90	126	48	94	A+	90
18	812117115024	Selvamani A	87	84	123	45	88	O	99
19	812117115026	Sowndarya L	82	86	131	40	82	O	99
20	812117115028	Suriyaprakash S	92	80	132	48	84	A	80
21	812117115031	Thiruncelan A	90	86	134	46	88	A+	90
22	812117115032	Varshini.T	90	94	141	40	92	O	99
23	812117115302	Dhanush R M	84	94	131	50	84	A+	90
24	812117115303	Praveen	86	89	136	46	80	A+	90
25	812117115304	Subash Chandran	86	87	130	44	80	B+	70
ATTAINMENT LEVEL			3	3	3	3	3	3	3

M. Suba Pradeep
Faculty

Dr. S. S. Srinivasan
HOD
Head of the Department
Dept. of Mechatronics Engineering
M.A.M.School of Engineering
Siruganur, Tiruchirappalli-621 105.

[Signature]
PRINCIPAL
PRINCIPAL
M.A.M. SCHOOL OF ENGINEERING
SIRIGANUR, TIRUCHIRAPPALLI-621 105.



M.A.M. SCHOOL OF ENGINEERING

Accredited by NAAC

Approved by AICTE, New Delhi; Affiliated to Anna University, Chennai

Siruganur, Trichy -621 105.

www.mamse.in

CO NO	CO ATTAINMENT						
	Attainments through Experiments	Attainments through Model Exam	Direct Internal Assessment Attainment(X1)	Direct Attainment Through University Exam (X2)	Direct CO Attainment $X = (0.5 \times X1) + (0.5 \times X2)$	Indirect CO Attainment (y)	Overall CO Attainment $Z = (0.8 \times X) + (0.2 \times Y)$
CO1	3	3	3	3	3.00	2.56	2.91
CO2	3	3	3	3	3.00	2.68	2.94
CO3	3	3	3	3	3.00	2.64	2.93
CO4	3	3	3	3	3.00	2.76	2.95
CO5	3	3	3	3	3.00	2.72	2.94

Course Outcome (CO)		Program Outcome (PO)												
Course Code /	Direct CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
MT8512 SENSORS & INSTRUMENTATION LAB														
C307.1	3.00	1	2	3	2	2	1	1	-	-	-	2	2	2
C307.2	3.00	3	2	3	3	3	1	1	-	-	-	2	2	2
C307.3	3.00	3	3	2	3	3	1	1	-	-	-	2	2	3
C307.4	3.00	3	3	2	2	3	1	1	-	2	-	2	2	2
C307.5	3.00	3	2	2	3	3	1	1	-	3	-	2	2	2
		13.00	12.00	12.00	13.00	14.00	5.00	5.00	0.00	5.00	0.00	10.00	10.00	11.00
Target PO		2.60	2.40	2.40	2.60	2.80	1.00	1.00	0.00	2.50	0.00	2.00	2.00	2.20
		3.00	6.00	9.00	6.00	6.00	3.00	3.00	0.00	0.00	0.00	6.00	6.00	6.00
		9.00	6.00	9.00	9.00	9.00	3.00	3.00	0.00	0.00	0.00	6.00	6.00	6.00
		9.00	9.00	6.00	9.00	9.00	3.00	3.00	0.00	0.00	0.00	6.00	6.00	9.00
		9.00	9.00	6.00	6.00	9.00	3.00	3.00	0.00	6.00	0.00	6.00	6.00	6.00
		9.00	6.00	6.00	9.00	9.00	3.00	3.00	0.00	9.00	0.00	6.00	0.00	0.00
		39.00	36.00	36.00	39.00	42.00	15.00	15.00	0.00	15.00	0.00	30.00	24.00	27.00
Attained PO		3.00	3.00	3.00	3.00	3.00	3.00	3.00	0.00	3.00	0.00	3.00	2.40	2.45

M. Suba Pradeep
FACULTY

HOD

Head of the Department
Dept. of Mechatronics Engineering
M.A.M. School of Engineering
Siruganur, Tiruchirappalli-621 105.

PRINCIPAL

PRINCIPAL

M.A.M. SCHOOL OF ENGINEERING
SIRIGANUR, TIRUCHIRAPPALLI-621 105.



M.A.M. SCHOOL OF ENGINEERING

Accredited by NAAC

Approved by AICTE, New Delhi; Affiliated to Anna University, Chennai

Siruganur, Trichy -621 105.

www.mamse.in

CONSOLIDATED COURSE OUTCOME ATTAINMENT FOR THE BATCH 2017-2021

Sem	Course Code/Subject Code	CO1	CO2	CO3	CO4	CO5
I	C101-HS8151	2.90	2.90	2.90	2.89	2.90
	C102-MA8151	2.87	2.87	2.89	2.87	2.87
	C103-PH8151	1.60	1.62	1.60	1.57	1.65
	C104-CY8151	2.26	2.27	2.30	2.26	2.26
	C105-GE8151	1.65	2.92	2.90	2.91	2.93
	C106-GE8152	2.91	2.91	2.91	2.89	2.91
	C107-GE8161	2.95	2.95	2.95	2.95	2.95
	C108-BS8161	2.98	2.98	2.98	2.98	2.98
II	C109-HS8251	2.95	2.78	2.60	2.92	2.95
	C110-MA8251	2.87	2.89	2.90	2.87	2.91
	C111-PH8251	3.02	2.93	2.93	2.92	2.84
	C112-BE8253	2.28	2.26	2.10	1.94	2.30
	C113-GE8291	1.69	1.65	1.62	1.66	1.50
	C114-GE8292	2.33	2.94	2.83	2.85	2.96
	C115-GE8261	2.97	2.97	2.97	2.97	2.97
	C116-BE8261	2.99	2.99	2.99	2.99	2.99
III	C201-MA8353	2.80	2.82	2.82	2.78	2.82
	C202-CE8395	2.83	2.84	2.78	2.75	2.82
	C203-CE8394	2.81	2.83	2.78	2.73	2.76
	C204-EC8392	2.82	2.84	2.77	2.79	2.82
	C205-MT8301	2.22	2.18	2.11	2.09	2.22
	C206-MT8302	2.85	2.82	2.79	2.71	2.82
	C207-CE8381	2.87	2.87	2.87	2.87	2.87
	C208-MT8311	2.70	2.70	2.70	2.70	2.70
	C209-HS8381	2.86	2.86	2.86	2.86	2.86
IV	C210-MA8492	1.93	2.26	2.24	1.75	1.81
	C211-ME8392	2.12	2.13	2.10	2.27	2.10
	C212-MT8491	2.71	2.88	2.72	2.70	2.74
	C213-ME8492	2.73	2.76	2.78	2.76	2.78
	C214-MT8401	2.97	2.83	2.82	2.68	2.50
	C215-MT8411	2.94	2.94	2.94	2.94	2.94
	C216-MT8461	2.96	2.96	2.96	2.96	2.96



M.A.M. SCHOOL OF ENGINEERING

Accredited by NAAC

Approved by AICTE, New Delhi; Affiliated to Anna University, Chennai

Siruganur, Trichy -621 105.

www.mamse.in

	C217-ME8381	2.97	2.97	2.97	2.97	2.97
	C218-HS8461	2.95	2.95	2.95	2.95	2.95
V	C301-EE8552	2.80	2.86	2.78	2.60	2.71
	C302-MT8591	1.85	2.20	1.66	1.64	1.75
	C303-ME8594	1.54	1.54	1.33	1.30	1.40
	C304-EC8391	2.52	2.53	2.46	2.58	2.69
	C305-OIM552	2.42	2.45	2.57	2.35	2.76
	C306-MT8511	2.94	2.94	2.94	2.94	2.94
	C307-MT8512	2.91	2.91	2.91	2.91	2.91
	C308-ME8481	2.91	2.91	2.91	2.91	2.91
	C309-HS8581	2.94	2.94	2.94	2.94	2.94
	C310-ME8591	2.94	2.93	2.85	2.90	2.87
VI	C311-MT8601	2.85	2.86	2.86	2.86	2.86
	C312-ME8593	2.86	2.82	2.86	2.82	2.81
	C313-MT8602	2.89	2.85	2.81	2.82	2.84
	C314-MG8591	2.86	2.86	2.91	2.82	2.92
	C315-GE8075	2.90	2.86	2.90	2.85	2.86
	C316-MT8611	2.95	2.95	2.95	2.95	2.95
	C317-MT8612	2.98	2.98	2.98	2.98	2.98
	C318-ME8682	2.98	2.98	2.98	2.98	2.98
VII	C401-ME8691	2.88	2.89	2.89	2.87	2.89
	C402-MT8701	2.85	2.89	2.86	2.87	2.85
	C403-MT8791	2.89	2.88	2.89	2.85	2.86
	C404-OAN751	2.85	2.86	2.86	2.68	2.88
	C405-AE8751	2.86	2.85	2.83	2.85	2.91
	C406-GE8071	2.85	2.88	2.87	2.85	2.89
	C407-MT8781	2.93	2.93	2.93	2.93	2.93
	C408-MT8711	2.94	2.94	2.94	2.94	2.94
VIII	C409-MT8801	2.83	2.87	2.78	2.77	2.86
	C410-MG8091	2.84	2.87	2.87	2.84	2.88
	C411-GE8076	2.86	2.85	2.89	2.85	2.87
	C412-MT8811	2.86	2.83	2.90	2.80	2.89


N. Suba Reddy
FACULTY

HOD

Head of the Department
Dept. of Mechatronics Engineering
M.A.M. School of Engineering
Siruganur, Tiruchirappalli-621 105.

PRINCIPAL

PRINCIPAL
M.A.M. SCHOOL OF ENGINEERING
SIRIGANUR, TIRUCHIRAPPALLI-621 105.

	M.A.M. SCHOOL OF ENGINEERING	
	Accredited by NAAC	
	Approved by AICTE, New Delhi; Affiliated to Anna University, Chennai	
	Siruganur, Trichy -621 105.	www.mamse.in

CONSOLIDATED PROGRAM OUTCOME ATTAINMENT FOR THE BATCH 2017-2021

S.NO	Courses	Program outcomes										PSO			
		1	2	3	4	5	6	7	8	9	10	1	2	3	
SEMESTER-I															
1.	C101-HS8151	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	1.60	
2.	C102-MA8151	2.40	2.40	2.40	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.40	2.00	0.00
3.	C103-PH8151	1.12	1.12	0.00	1.12	1.12	1.12	1.12	0.00	1.12	1.12	1.12	0.00	1.12	
4.	C104-CY8151	1.76	1.76	0.00	0.00	0.00	1.76	0.00	0.00	0.00	1.76	1.76	1.51	0.00	
5.	C105-GE8151	2.14	2.40	2.14	2.19	1.76	1.97	2.14	2.40	0.00	0.00	2.22	1.60	0.00	
6.	C106-GE8152	2.40	2.40	2.40	2.40	2.40	0.00	2.40	0.00	2.40	2.40	2.40	1.92	2.40	
7.	C107-GE8161	3.00	3.00	3.00	3.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	2.40	2.45	
8.	C108-BS8161	3.00	3.00	3.00	3.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	2.40	2.45	
SEMESTER-II															
9.	C109-HS8251	2.32	2.24	2.29	2.29	2.40	2.19	2.30	2.16	0.00	0.00	2.31	1.04	0.00	
10.	C110-MA8251	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	0.00	0.00	2.40	1.60	0.00	
11.	C111-PH8251	2.24	0.00	2.40	0.00	2.35	2.40	2.34	0.00	0.00	0.00	2.34	1.60	0.00	
12.	C112-BE8253	1.68	1.71	1.52	1.70	1.65	0.00	0.00	1.66	1.69	1.68	1.62	1.60	0.00	
13.	C113-GE8291	1.09	1.07	1.04	1.07	1.12	0.00	1.12	0.00	1.12	0.00	0.00	1.04	1.08	
14.	C114-GE8292	2.25	2.20	0.00	0.00	2.27	0.00	2.20	2.25	2.26	0.00	2.26	2.10	0.00	
15.	C115-GE8261	3.00	3.00	3.00	0.00	3.00	0.00	3.00	0.00	0.00	0.00	3.00	2.25	3.00	
16.	C116-BE8261	3.00	0.00	3.00	0.00	0.00	0.00	3.00	0.00	0.00	3.00	0.00	3.00	0.00	
SEMESTER-III															



M.A.M. SCHOOL OF ENGINEERING

Accredited by NAAC

Approved by AICTE, New Delhi; Affiliated to Anna University, Chennai

Siruganur, Trichy -621 105.

www.mamse.in

17.	C301-MA8353	1.93	2.40	2.40	0.00	0.00	0.00	0.00	0.00	2.40	2.40	0.00	2.40	0.00
18.	C302-CE8395	2.20	2.40	2.40	0.00	2.40	0.00	0.00	0.00	0.00	0.00	0.00	2.40	2.40
19.	C303-CE8394	1.82	1.76	1.76	1.76	0.00	1.76	1.76	0.00	0.00	0.00	1.76	0.00	0.00
20.	C304-EC8392	2.36	2.40	2.40	0.00	0.00	0.00	2.40	0.00	0.00	0.00	2.40	0.00	2.40
21.	C304-MT8301	2.33	2.40	2.40	2.40	2.40	2.40	0.00	0.00	2.40	0.00	2.40	2.40	0.00
22.	C306-MT8302	2.10	2.40	2.40	0.00	0.00	0.00	0.00	2.40	2.40	0.00	2.40	0.00	0.00
23.	C307-CE8381	3.00	3.00	0.00	0.00	0.00	3.00	0.00	0.00	3.00	0.00	0.00	3.00	0.00
24.	C308-MT8311	2.75	2.75	0.00	0.00	0.00	2.75	0.00	0.00	2.75	0.00	0.00	2.75	0.00
25.	C309-HS8381	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	3.00	0.00	0.00	0.00
SEMESTER-IV														
26.	C310-MA8452	1.47	1.58	1.65	1.60	1.60	0.00	0.00	0.00	0.00	0.00	1.60	1.60	0.00
27.	C311-ME8392	1.28	1.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.63	1.63
28.	C312-MT8491	2.02	2.27	2.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.29	0.00	0.00
29.	C313-ME8492	2.19	2.24	2.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.24	2.24	0.00
30.	C314-MT8401	2.02	2.26	2.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.26	2.26	0.00
31.	C315-MT8411	3.00	3.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	3.00	3.00
32.	C316-ME8461	3.00	3.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	3.00	0.00
33.	C317-ME8381	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	3.00	0.00
34.	C318-HS8461	3.00	3.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	3.00	0.00
SEMESTER-V														
35.	C301-EE8552	2.34	2.34	2.35	0.00	0.00	0.00	0.00	0.00	0.00	2.33	0.00	1.99	1.72
36.	C302-MT8591	1.33	0.00	1.60	0.00	1.33	1.36	1.39	1.52	0.00	0.00	1.44	1.36	0.00
37.	C303-ME8594	1.04	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.06	1.01	0.00



M.A.M. SCHOOL OF ENGINEERING


Accredited by NAAC

Approved by AICTE, New Delhi; Affiliated to Anna University, Chennai

Siruganur, Trichy -621 105.

www.mamse.in

38.	C304-EC8391	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.14	1.62	0.00
39.	C305-OIM552	2.18	2.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.18	1.64	0.00
40.	C306-MT8511	3.00	3.00	3.00	3.00	3.00	3.00	3.00	0.00	3.00	0.00	3.00	2.40	2.45
41.	C307-MT8512	3.00	3.00	3.00	3.00	3.00	3.00	3.00	0.00	3.00	0.00	3.00	2.40	2.45
42.	C308-ME8481	3.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	2.40	0.00
43.	C309-IIS8581	3.00	3.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	3.00	2.10	0.00
SEMESTER-VI														
44.	C310-ME8591	2.40	2.40	0.00	0.00	0.00	0.00	0.00	0.00	2.40	0.00	2.40	2.13	1.60
45.	C311-MT8601	2.40	2.40	2.40	0.00	2.40	0.00	0.00	0.00	0.00	2.40	2.40	2.00	1.85
46.	C312-ME8593	2.40	2.40	2.40	2.40	0.00	0.00	2.40	0.00	0.00	0.00	0.00	0.00	1.80
47.	C313-MT8602	2.40	2.40	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.40	2.06	1.92
48.	C314-MG8591	2.40	2.40	0.00	0.00	0.00	0.00	0.00	0.00	2.40	0.00	2.40	2.10	1.60
49.	C315-GE8075	2.40	2.40	0.00	0.00	0.00	0.00	0.00	0.00	2.40	0.00	2.40	1.80	0.00
50.	C316-MT8611	3.00	3.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	2.40	0.00
51.	C317-MT8612	3.00	3.00	3.00	3.00	3.00	0.00	3.00	3.00	3.00	0.00	3.00	2.50	0.00
52.	C318-ME8682	3.00	3.00	3.00	3.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	2.63	2.40
SEMESTER-VII														
53.	C401-ME8691	2.40	2.40	0.00	2.40	0.00	0.00	2.40	0.00	0.00	0.00	0.00	2.40	2.40
54.	C402-MT8701	2.40	2.40	2.40	0.00	0.00	2.40	2.40	0.00	0.00	2.40	2.40	2.40	2.40
55.	C403-MT8791	2.40	2.40	2.40	0.00	2.40	2.40	0.00	0.00	0.00	0.00	2.40	2.40	0.00
56.	C404-OAN751	2.35	2.37	2.37	2.37	0.00	0.00	0.00	0.00	0.00	0.00	2.36	2.37	0.00
57.	C405-AE8751	2.40	0.00	2.40	0.00	2.40	0.00	0.00	0.00	0.00	2.40	2.40	2.40	2.40
58.	C406-GE8071	2.40	2.40	2.40	0.00	0.00	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40

	M.A.M. SCHOOL OF ENGINEERING													
	Accredited by NAAC													
	Approved by AICTE, New Delhi; Affiliated to Anna University, Chennai										Siruganur, Trichy -621 105.			
											www.mamse.in			

59.	C407-MT8781	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	0.00	3.00	3.00	2.40	2.25
60.	C408-MT8711	3.00	3.00	3.00	3.00	3.00	0.00	0.00	0.00	0.00	0.00	3.00	2.25	3.00
SEMESTER-VIII														
61.	C409-MT8801	2.40	2.40	2.40	2.40	2.40	0.00	2.40	0.00	0.00	2.40	2.40	2.40	0.00
62.	C410-MG8091	2.40	2.40	2.40	0.00	0.00	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40
63.	C411-GE8076	2.40	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.40	2.40
64.	C412-MT8811	3.00	3.00	3.00	3.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	3.00
Total		153.65	140.84	120.09	124.16	83.2	108.16	126.08	92.16	112	107.52	109.16	124.9	89.6
Number of Courses mapping with POs		64	64	64	64	64	64	64	64	64	64	64	64	64
POs Average		2.4	2.2	1.88	1.94	1.3	1.69	1.97	1.44	1.75	1.68	1.71	1.95	1.4
Direct Attainment		1.92	1.76	1.50	1.55	1.04	1.35	1.58	1.15	1.40	1.34	1.37	1.56	1.12
Indirect Attainment		0.38	0.39	0.36	0.37	0.32	0.31	0.26	0.36	0.32	0.35	0.38	0.41	0.38
PO Attainment		2.3	2.15	1.864	1.922	1.2	1.662	1.836	1.512	1.72	1.694	1.748	1.97	1.18

N. Suba Reddy
FACULTY

Dr. S. M. S.
HOD

Head of the Department
Dept. of Mechatronics Engineering
M.A.M. School of Engineering
Siruganur, Tiruchirappalli-621 105.

[Signature]
PRINCIPAL
PRINCIPAL
M.A.M. SCHOOL OF ENGINEERING
SIRIGANUR, TIRUCHIRAPPALLI-621 105.



M.A.M. SCHOOL OF ENGINEERING

Accredited by NAAC

Approved by AICTE, New Delhi; Affiliated to Anna University, Chennai

Siruganur, Trichy -621 105.

www.mamse.in



M.A.M. SCHOOL OF ENGINEERING

Accredited by NAAC

Approved by AICTE, New Delhi; Affiliated to Anna University, Chennai

Siruganur, Trichy -621 105.

www.mamse.in

PROGRAMME EVALUATION BY STUDENTS (Programme End Survey)

Name: H R MOHAMMED HUSSAIN

Programme:: BE.

Department: MECHATRONICS

Batch: 2017-2021

S.No.	PO Assessment	Marks		
		3	2	1
1.	Able to apply the laws of science and mathematics to provide engineering solutions to solve complex problems.	✓		
2.	Able to identify and analyze complex problems by modeling with the help of literature survey and validate the solution with experiments.	✓		
3.	Able to design and develop Mechatronics systems by selecting and integrating, sensors, appropriate materials, mechanics, thermal systems, manufacturing and automation methods.	✓		
4.	Able to collect, condition monitors and interprets data to provide engineering solutions.	✓		
5.	Able to create applications, products as well as modernizing the existing systems by using latest tools and technologies.		✓	
6.	Able to develop solutions for local and global requirements by applying engineering knowledge and professional ethics.		✓	
7.	Able to have professional values on environmental and energy consumption for sustainability.	✓		
8.	Able to become a leader and contribute in a team with entrepreneurial qualities.	✓		
9.	Able to interact effectively in both oral and written format.	✓		
10.	Able to continuously update their knowledge and skills to meet the ever changing global needs.	✓		
PSO Assessment				
1.	Analyze, design, and develop Mechatronics system to solve complex engineering problems.	✓		
2.	Adopt a multidisciplinary approach to solve real-world industrial problems.	✓		
3.	Innovate and implement smart technology and industry 4.0 in Mechatronics system.	✓		

MOHAMMED HUSSAIN . H.R.

Signature



M.A.M. SCHOOL OF ENGINEERING

Accredited by NAAC

Approved by AICTE, New Delhi; Affiliated to Anna University, Chennai

Siruganur, Trichy -621 105.

www.mamse.in



M.A.M. SCHOOL OF ENGINEERING

Accredited by NAAC

Approved by AICTE, New Delhi; Affiliated to Anna University, Chennai

Siruganur, Trichy -621 105.

www.mamse.in

PROGRAMME EVALUATION BY STUDENTS (Programme End Survey)

Name: <u>Saundarya L.</u>		
Programme: <u>B.E.</u>	Department: <u>Mechatronics</u>	Batch: <u>2017-2021</u>

S.No.	PO Assessment	Marks		
		3	2	1
1.	Able to apply the laws of science and mathematics to provide engineering solutions to solve complex problems.	✓		
2.	Able to identify and analyze complex problems by modeling with the help of literature survey and validate the solution with experiments.	✓		
3.	Able to design and develop Mechatronics systems by selecting and integrating, sensors, appropriate materials, mechanics, thermal systems, manufacturing and automation methods.		✓	
4.	Able to collect, condition monitors and interprets data to provide engineering solutions.		✓	
5.	Able to create applications, products as well as modernizing the existing systems by using latest tools and technologies.	✓		
6.	Able to develop solutions for local and global requirements by applying engineering knowledge and professional ethics.		✓	
7.	Able to have professional values on environmental and energy consumption for sustainability.		✓	
8.	Able to become a leader and contribute in a team with entrepreneurial qualities.	✓		
9.	Able to interact effectively in both oral and written format.	✓		
10.	Able to continuously update their knowledge and skills to meet the ever changing global needs.	✓		
PSO Assessment				
1.	Analyze, design, and develop Mechatronics system to solve complex engineering problems.	✓		
2.	Adopt a multidisciplinary approach to solve real-world industrial problems.	✓		
3.	Innovate and implement smart technology and industry 4.0 in Mechatronics system.	✓		

Saundarya L.
Signature



M.A.M. SCHOOL OF ENGINEERING

Accredited by NAAC

Approved by AICTE, New Delhi; Affiliated to Anna University, Chennai

Siruganur, Trichy -621 105.

www.mamse.in



M.A.M. SCHOOL OF ENGINEERING

Accredited by NAAC

Approved by AICTE, New Delhi; Affiliated to Anna University, Chennai

Siruganur, Trichy -621 105.

www.mamse.in

PROGRAMME EVALUATION BY STUDENTS (Programme End Survey)

Name: <u>N. MOHAMMED NOWFULL</u>		
Programme: <u>B.E.</u>	Department: <u>MECHATRONICS</u>	Batch: <u>2017-2021</u>

S.No.	PO Assessment.	Marks		
		3	2	1
1.	Able to apply the laws of science and mathematics to provide engineering solutions to solve complex problems.	✓		
2.	Able to identify and analyze complex problems by modeling with the help of literature survey and validate the solution with experiments.		✓	
3.	Able to design and develop Mechatronics systems by selecting and integrating, sensors, appropriate materials, mechanics, thermal systems, manufacturing and automation methods.		✓	
4.	Able to collect, condition monitors and interprets data to provide engineering solutions.	✓		
5.	Able to create applications, products as well as modernizing the existing systems by using latest tools and technologies.	✓		
6.	Able to develop solutions for local and global requirements by applying engineering knowledge and professional ethics.	✓		
7.	Able to have professional values on environmental and energy consumption for sustainability.	✓		
8.	Able to become a leader and contribute in a team with entrepreneurial qualities.		✓	
9.	Able to interact effectively in both oral and written format.	✓		
10.	Able to continuously update their knowledge and skills to meet the ever changing global needs.		✓	
PSO Assessment				
1.	Analyze, design, and develop Mechatronics system to solve complex engineering problems.	✓		
2.	Adopt a multidisciplinary approach to solve real-world industrial problems.		✓	
3.	Innovate and implement smart technology and industry 4.0 in Mechatronics system.	✓		

N. Mohammed Nowfull
Signature