


Madanapalle Institute of Technology & Science

Department of Electronics & Communications Engineering

Table 2: Course Attainment Matrix (2015-19 Batch)

Course Code	Course name	CIE (Direct Attainment)					CO Attainment Level				
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5
14MAT103	Differential Equations & Laplace Transforms	97	94	81	80	80	3	3	2	2	2
14HUM101	Principles of Economics	89	77	63	73	63	3	2	1	2	1
14ECE101	Electrical Machines	67	64	66	68	61	1	1	1	1	1
14ECE102	Network Analysis	65	59	67	67	60	1	0	1	1	1
14ECE103	Electronic Devices	61	60	67	62	56	1	0	1	1	0
14ECE104	Digital Design	61	69	67	76	68	1	1	1	1	0
14ECE201	Electrical and Electronic Devices Practical's	80	80	76	77	75	2	2	2	2	1
14ECE202	Digital Design Practical's	85	83	84	81	80	3	3	3	3	2
14MAT104	Probability & Statistics	76	82	69	64	65	2	3	1	1	3
14HUM102	Principles of Management	97	89	77	74	73	3	3	2	2	1
14ECE105	Signals and Systems	59	65	58	60	71	0	1	0	2	2
14ECE106	Microprocessors and Interfacing	73	93	62	60	60	2	3	1	0	2
14ECE107	Microelectronics and Circuits (Moocs)	62	62	62	62	62	1	1	1	1	0
14ECE108	Control Systems	66	75	69	66	77	1	2	1	1	1
14ECE203	Microprocessors and Interfacing Practicals	71	69	70	68	68	2	1	1	1	2
14ECE204	Simulation and Control Practicals	81	81	79	80	79	3	3	2	2	1
14ECE109	Electromagnetic Theory	79	77	61	49	59	2	2	1	0	2
14ECE110	Communication System	73	69	65	60	57	2	1	1	0	0
14ECE111	Analog Electronics	81	77	70	47	59	3	2	1	0	0
14ECE112	Analog and Digital VLSI Design	89	70	55	63	54	3	2	1	0	0
14ECE113	Computer Architecture (Moocs)	71	71	71	71	71	2	2	0	1	4


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14ECE205	Analog Electronics Practical's	61	60	65	60	65	1	1	1	0	1
14ECE206	Communication Systems Practical's	67	69	69	65	66	1	1	1	1	1
14ENG103	Soft Skills	72	68	56	52	60	2	1	0	0	1
14ECE114	Communication Networks	83	71	62	51	67	3	2	1	0	1
14ECE115	Electromagnetic Fields and Microwave Engineering	71	64	52	48	69	2	1	0	0	1
14ECE116	Digital Signal Processing	74	57	63	53	72	2	0	1	0	2
14ECE402	Digital Image Processing (Moocs)	80	80	80	80	80	2	2	2	2	2
14ECE207	Microwave Practical's	78	77	78	78	76	2	2	2	2	2
14ECE208	Digital Signal Processing Practical's	70	72	70	67	67	1	2	1	1	1
14CSU103	Object Oriented Programming	64	62	69	70	62	1	1	1	2	1
14ECE117	Embedded System Design	90	87	77	69	75	3	3	2	1	2
14ECE118	Mobile Telecommunication & Networks	78	80	75	74	71	2	2	2	2	2
14ECE404	Introduction to MEMS (Moocs)	71	71	71	71	71	2	2	2	2	2
14ECE408	Digital Communication Techniques	63	59	47	45	48	1	0	0	0	0
14ECE409	Biomedical Imaging	59	68	75	62	75	0	1	2	1	2
14ECE411	Machine vision	86	75	73	67	74	3	2	2	1	2
14ECE209	Object Oriented Programming Practical's	82	81	82	82	83	3	3	3	3	3
14ECE210	Embedded System Practical's	73	71	73	72	72	2	2	2	2	2
14ECE501	Mini Project	96	95	96	96	96	3	3	3	3	3
14ECE412	Satellite Communication	73	58	53	52	49	2	0	0	0	0
14ECE415	IoT Networks	83	82	82	72	73	3	3	3	2	2
14ECE502	Project Work	91	90	90	90	90	3	3	3	3	3
14ECE601	Technical Seminar	79	78	79	78	78	2	2	2	2	2

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Principal
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Head of the Department

Electronics & Communication Engineering
Maddur Institute of Technology & Science
Angalilu, MADANAPALLE - 517 325
Chittoor (Dist.) A.P.

Department of Electronics & Communication Engineering, I.M.T.S.O. 14, Kadiri Road, Angalilu
MADANAPALLE 517 325 A.P.

(The attainment levels by direct (student performance) and indirect (surveys) are to be presented through Program level Course-PO&PSO matrices as indicated).

Table 3 reveals PO & PSO Attainment of all courses through Direct Assessment

Table 3: PO & PSO Attainment through Direct Assessment (2015-19 Batch)

Course code	Course Name	Program Outcome										Program Specific Outcome				
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
II Year Semester I																
14MAT103	Differential Equations & Laplace Transforms	84	85	84	81	89	96	77	-	94	-	85	84	-	-	-
14HUM101	Principles of Economics	73	74	-	-	-	74	74	74	-	-	-	74	74	-	-
14ECE101	Electrical Machines	65	65	65	65	-	65	65	65	-	65	65	65	-	65	-
14ECE102	Network Analysis	63	64	64	64	-	65	65	-	-	-	64	64	63	-	63
14ECE103	Electronic Devices	61	61	61	61	-	-	-	-	-	-	61	61	61	61	61
14ECE104	Digital Design	68	68	68	68	68	-	-	-	-	68	68	68	68	68	68
14ECE201	Electrical and Electronic Devices Practical's	78	77	78	78	78	-	-	-	78	-	-	-	78	78	75
14ECE202	Digital Design Practical's	83	83	83	83	83	-	-	-	83	-	-	-	83	83	80

II Year Semester II

14MAT104	Probability & Statistics	76	73	67	73	-	-	-	82	-	-	-	-	71	71	-	72
14HUM102	Principles of Management	82	82	-	-	-	82	82	-	82	82	82	82	82	82	-	-
14ECE105	Signals and Systems	63	63	63	63	-	61	62	64	-	-	-	-	64	62	-	62
14ECE106	Microprocessors and Interfacing	70	70	72	70	70	-	-	-	-	-	-	-	68	68	66	-
14ECE107	Microelectronics and Circuits (MOOCS)	62	62	62	62	-	-	-	-	-	-	-	62	62	-	62	-
14ECE108	Control Systems	71	71	71	71	-	71	70	71	-	-	-	71	71	-	71	-
14ECE203	Microprocessors and Interfacing Practical's	69	69	69	69	69	-	-	-	69	-	-	-	70	69	69	69
14ECE204	Simulation and Control Practical's	80	80	80	80	80	-	-	-	80	-	-	-	80	80	-	80

III Year Semester I

14ECE109	Electromagnetic Theory	65	65	66	-	-	-	-	-	-	-	-	-	65	66	-	65
14ECE110	Communication Systems	65	64	65	65	-	66	66	63	-	-	-	-	65	65	-	65

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14ECE111	Analog Electronics	67	67	65	66	-	-	-	-	-	-	-	-	-	68	68	66	69
14ECE112	Analog and Digital VLSI Design	67	67	66	68	-	-	-	-	-	-	-	-	-	67	67	66	66
14ECE113	Computer Architecture (MOOCS)	71	71	71	71	-	-	-	-	-	-	-	-	-	71	71	71	-
14ECE205	Analog Electronics Practical's	62	63	62	62	-	-	-	-	-	62	-	-	-	62	62	62	62
14ECE206	Communication Systems Practical's	67	67	67	67	-	-	-	-	-	67	-	-	-	67	67	-	67
III Year Semester II																		
14ENG103	Soft Skills	62	62	-	-	-	-	-	-	62	62	62	-	-	62	62	-	-
14ECE114	Communication Networks	67	65	65	-	-	-	-	-	-	-	-	-	-	67	67	-	67
14ECE115	Electromagnetic Fields and Microwave Engineering	65	57	58	-	62	62	64	-	-	-	-	-	-	61	70	-	48
14ECE116	Digital Signal Processing	64	64	62	-	-	-	-	-	-	-	-	-	-	65	57	59	67
Discipline Elective-1 14ECE402	Digital Image Processing (MOOCS)	80	80	80	80	-	-	80	-	-	-	-	-	-	80	80	-	80

Head of the Department
 Department of Electronics & Science
 Madanapalle Institute of Technology & Science
 Madanapalle - 517 325
 Angaluru Road, Madanapalle
 Chittoor (Dist.) A.P.

Department of Electronics & Communication Engineering, MITTS

Principal
 Madanapalle Institute of Technology & Science
 PO Box NO 14, Kadiri Road, Angaluru
 MADANAPALLE 517 325 A.P.

14ECE207	Microwave Practical's	77	78	78	-	76	-	-	-	77	77	-	78	-	78	-	78	
14ECE208	Digital Signal Processing Practical's	69	69	69	69	70	69	-	-	-	-	-	69	69	-	69	-	69

IV Year Semester I

14CSU103	Object Oriented Programming	65	66	65	66	64	-	-	-	-	-	-	66	66	65	64
14ECE117	Embedded System Design	80	83	81	87	82	-	-	-	77	-	89	81	80	82	72
14ECE118	Mobile Telecommunication & Networks	76	76	78	-	77	-	-	-	-	78	76	76	76	-	75
Discipline Elective - II 14ECE404	Introduction to MEMS (MOOCS)	71	71	71	71	71	-	-	71	71	-	71	71	71	71	71
Discipline Elective - III 14ECE408	Digital Communication Techniques	53	49	52	-	-	-	-	-	-	-	52	51	-	54	
Discipline Elective - III 14ECE409	Biomedical Imaging	65	69	68	64	75	-	-	-	-	-	68	68	-	-	
Discipline Elective - III 14ECE411	Machine vision	75	75	75	75	75	-	-	-	-	-	75	75	75	-	

Department of Electronics & Communication Engineering, MITTS

Elected
 Madanapalle
 Angaloor (Dist.) A.P.
 517 325

PRINCIPAL
 Madanapalle Institute of Technology & Science
 PO Box NO 14, Kadiri Road, Angali
 MADANAPALLE 517 325 A.P.

14ECE209	Object Oriented Programming Practicals	82	82	82	-	82	-	-	-	-	-	82	82	82	82	82
14ECE210	Embedded System Practicals	72	72	72	72	72	-	-	-	72	-	-	-	72	72	-
14ECE501	Mini Project	96	96	96	96	96	-	96	96	96	96	96	96	96	96	96

IV Year Semester II

Discipline Elective – IV 14ECE412	Satellite Communication	73	55	51	55	-	-	-	-	58	-	-	57	57	-	53
Discipline Elective – IV 14ECE415	IoT Networks	83	77	78	77	-	-	-	82	-	-	-	78	79	-	79
14ECE502	Project Work	90	90	90	90	90	-	90	90	90	90	90	90	90	90	90
14ECE601	Technical Seminar	78	78	78	78	78	-	-	78	78	78	78	78	78	78	78
Direct Attainment		72	71	71	72	77	71	74	74	77	82	75	71	71	72	70
Attainment level		2	2	2	2	2	2	2	2	2	3	2	2	2	2	2



HOD/DECE

Head of the Department
Electronics & Communication Engineering
Madanapalle Institute of Technology & Sciences
Angallu, MADANAPALLE - 517 325
Chittoor (Dist.) A.P.



Principal

Madanapalle Institute of Technology & Sciences
PO Box NO 14, Kadiri Road, Angallu
MADANAPALLE 517 325 A.P.

Tables 4 reveals the PO & PSO attainments through indirect assessments each assessment survey individually weights 100%.

Table 4: PO & PSO Attainment through Indirect Assessment(2015-19 Batch)

Survey	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Graduate	84	85	85	85	86	87	86	88	87	87	86	86	86	85	83
Alumni	91	96	96	96	96	89	89	89	89	89	89	87	89	89	89
Employer	87	87	87	87	78	73	73	73	93	75	87	83	87	87	87
Indirect Attainment	87	89	89	89	87	83	83	83	90	84	87	85	87	87	86

Tables 5 reveals the PO & PSO attainments through indirect assessments.

Table 5: PO & PSO Attainment through Indirect Assessment(2015-19 Batch)

Survey	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Graduate (60%)	50	51	51	51	52	52	52	53	52	52	52	52	52	51	50
Alumni (20%)	18	19	19	19	19	18	18	18	18	18	18	17	18	18	18
Employer (20%)	17	17	17	17	16	15	15	15	19	15	17	17	17	17	17
Indirect Attainment	86	88	88	87	86	85	84	85	89	85	87	86	87	86	85

The evaluation of PO and PSO attainment by graduate survey, Alumni survey and Employer survey are graphically represented in Table 4 and 5

Table 3.3.2.9: Overall attainment of Program outcomes (PO) & Program Specific outcomes (PSO) (2015-19 Batch)

PO/PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Direct Attainment	72	71	71	72	77	71	74	74	77	82	75	71	71	72	70
Indirect attainment	86	88	88	87	86	85	84	85	89	85	87	86	87	86	85
Overall PO/PSO attainment	75	74	74	75	79	74	76	76	79	83	77	74	74	75	73
Attainment Level	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

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Head of the Department
Electronics & Communication Engineering
 Madanapalle Institute of Technology & Science
 Angaluru, MADANAPALLE - 517 325
 Chittoor (Dist.) A.P.

~~Principal~~



PRINCIPAL
 Madanapalle Institute of Technology & Science
 PO Box NO 14, Kadiri Road, Angaluru
 MADANAPALLE 517 325 A P