



**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE**  
(UGC-AUTONOMOUS INSTITUTION)

Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi  
NAAC Accredited with A+ Grade, NIRF India Rankings 2021 - Band: 201-250 (Engg.)  
NBA Accredited - B.Tech. (CIVIL, CSE, CST, ECE, EEE, MECH), MBA & MCA



**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

**COs, POs & PSOs Attainment of 2019 - 23 entry batch (2022-23 Passed out batch)**

Course Code and Name	% Overall CO Attainment					PO & PSO Attainment in %														
	CO 1	CO 2	CO 3	CO 4	CO 5	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
18HUM101 EFAB	91	85	90	71	78	61	52	84	78				85				55	61		56
18BIO101 Life Science for Engineers	77	72	71	69	60	56	51	51	37	43		47								
18EEE102 Electric Circuit Analysis	68	67	76	73	71	56	71	71	66									72	70	73
18EEE103 Analog Electronics	67	66	72	78	75	72	72	67	72										61	66
18EEE104 DC Machines and Transformers	64	63	61	60	46	51	59	52	52			62						61	59	52
18ENG201-English Communication: Listening & Speaking Laboratory	84	84	84	84	84									56	84		84			
18EEE202 - Analog Electronics Laboratory	92	92	92	92	92	92	92	79	73					92	92				61	92
18EEE203 DC Machines and Transformers Laboratory	87	87	87	87	87	87	87	76	70			87		58	64			80	87	76
18HUM102 Principles of Management	93	84	92	67	74	62	51	83	76				84					55	67	75
18MAT104 Probability & Statistics	86	73	88	62	62	74	74	74	49	49						25	49			
18EEE105 Electromagnetic Fields	60	60	67	65	64	63	63	55	50			55							63	50
18EEE106 Digital Electronics	67	65	60	69	68	57	66	57	58									52	64	
18EEE107 Induction & Synchronous Machines	62	64	65	67	67	65	65	60	65										65	52
18EEE108 Control Systems	59	60	65	64	82	48	52	61	62	56	62							62	44	57
18EEE204 Digital Electronics Laboratory	92	92	92	92	92	79	61	79	69	71				92	92			81	61	



**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE**  
(UGC-AUTONOMOUS INSTITUTION)

Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi  
NAAC Accredited with A+ Grade, NIRF India Rankings 2021 - Band: 201-250 (Engg.)  
NBA Accredited - B.Tech. (CIVIL, CSE, CST, ECE, EEE, MECH), MBA & MCA



Course Code and Name	% Overall CO Attainment					PO & PSO Attainment in %															
	CO 1	CO 2	CO 3	CO 4	CO 5	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
18EEE205 Induction & Synchronous Machines Laboratory	94	94	94	94	94	82	82	75	69					94	94						
18EEE206 Control Systems Laboratory	97	97	97	97	97	97	90	84	64	75				97	97			97	97	77	
18ENG102-English Communication - Reading and Writing	76	78	76	74	79									62	67		67				
18EEE109 Power Systems - I (Generation, Transmission & Distribution)	82	64	59	67	67	68	68	58	55									68			59
18EEE110 Power Electronics	70	73	78	76	63	72	72	68	72									63	48		52
18EEE111 Microcontroller and Interfacing	75	77	67	62	71	70	70	52	52	60					70	67	70	67	60		56
18EEE403 Industrial Electrical Systems	63	63	81	64	54	65	65	57	60									53			
18EEE404 Special Electrical Machines	64	56	59	53	70	60	60	51	44									50	40		55
18EEE207 Power Systems-I Laboratory	88	88	88	88	88	88	59	71	74	69	83	74		88	88		88	77	59		83
18EEE208 Power Electronics Laboratory	91	91	91	91	91	91	73	79	91	71		61		91	91	91		73	91		
18EEE209 Microcontroller and Interfacing Laboratory	88	88	88	88	88	71	88	59	59	76				88	88	88	76	74	59		71
18EEE112 AI Tools, Techniques and Applications	77	66	65	82	79	71	71	67	68	61							75	57	52		56
18EEE113 Signals & Systems	78	64	77	93	93	81	81	71	77	51							93	59	60		69
18EEE114 Power Systems - II	65	82	76	82	85	78	78	67	72	63					83			74			61
Design of Power Electronic Converters	62	62	62	62	62	62	62	52	41									41	50		
18EEE407 Electrical Drives & Control	59	59	80	63	87	70	70	70	53									46			55
18EEE409 Electric Measurements and Instrumentation	80	64	57	56	58	63	63	60										42	51		



**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE**  
(UGC-AUTONOMOUS INSTITUTION)

Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi  
NAAC Accredited with A+ Grade, NIRF India Rankings 2021 - Band: 201-250 (Engg.)  
NBA Accredited - B.Tech. (CIVIL, CSE, CST, ECE, EEE, MECH), MBA & MCA



Course Code and Name	% Overall CO Attainment					PO & PSO Attainment in %														
	CO 1	CO 2	CO 3	CO 4	CO 5	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
18EEE210 Power Systems - II Laboratory	99	99	99	99	99	99	99	80	99	99				99	99		99	86	66	99
Corporate Communication Lab	100	100	100	100	100									93	93		67			
18EEE115 Internet of Things	69	72	65	74	67	70	51	59	47	62					46	60	46	47		46
18EEE116 Switch Gear and Protection	74	63	85	81	82	77	77	57	64						49	68	56	48	63	49
Electrical Energy Conservation and auditing	81	79	68	57	73	72	58	63	58									45	72	48
18EEE418 Wind and Solar Energy Systems	68	77	83	55	70	71	62	60	53	47					47	62	45	48	77	51
18EEE211 Internet of Things Laboratory	100	100	100	100	100	100	80	66	80	100				66	73	89	80	66	80	66
18EEE212 Protection & Simulation Laboratory	100	100	100	100	100	100	87	80	100	100				67	100		78	89	67	67
18EEE701 Project Work - I	87	87	87	87	87	87	87	75	70	87				58	58				58	64
18EEE426 Smart Power Grid	83	79	69	72	78	76	51	61	70	74						79	79	64	74	65
18EEE702 Project Work - II	95	95	95	95	95	95	95	82	76	95				63	63				63	69
<b>Overall Attainment in %</b>						<b>74</b>	<b>70</b>	<b>67</b>	<b>65</b>	<b>71</b>	<b>72</b>	<b>64</b>	<b>85</b>	<b>79</b>	<b>78</b>	<b>70</b>	<b>69</b>	<b>64</b>	<b>65</b>	<b>63</b>

Program Coordinator

Head of the Department  
Electrical & Electronics Engineering  
Madanapalle Institute of Technology & Science  
MADANAPALLE - 517 325



## MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(UGC-AUTONOMOUS INSTITUTION)

Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi  
NAAC Accredited with A+ Grade, NIRF India Rankings 2021 - Band: 201-250 (Engg.)  
NBA Accredited - B.Tech. (CIVIL, CSE, CST, ECE, EEE, MECH), MBA & MCA



### DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

#### Attainment of COs for 2019 - 20 entry batch (2022-23 Passed out batch)

Course Code and Name	% CO attainment though Direct analysis					Course Exit Survey					Overall % CO Attainment					Overall CO Attainment Levels				
	CO 1	CO 2	CO 3	CO 4	CO 5	CO 1	CO 2	CO 3	CO 4	CO 5	CO 1	CO 2	CO 3	CO 4	CO 5	CO 1	CO 2	CO 3	CO 4	CO 5
18HUM101 EFAE	91	85	90	71	78	78	80	78	80	79	89	84	88	73	78	3	3	3	2	2
18BIO101 Life Science for Engineers	77	72	71	69	60	79	78	80	79	79	77	73	73	71	63	2	2	2	2	1
18EEE102 Electric Circuit Analysis	68	67	76	73	71	83	83	82	83	83	71	70	77	75	73	2	1	2	2	2
18EEE103 Analog Electronics	67	66	72	78	75	80	81	80	78	80	69	69	74	78	76	1	1	2	2	2
18EEE104 DC Machines and Transformers	64	63	61	60	46	87	88	87	88	87	69	68	66	65	54	1	1	1	1	0
18ENG201-English Communication: Listening & Speaking Laboratory	84	84	84	84	84	84	83	87	82	86	84	83	84	83	84	3	3	3	3	3
18EEE202 - Analog Electronics Laboratory	92	92	92	92	92	82	83	85	83	83	90	90	90	90	90	3	3	3	3	3
18EEE203 DC Machines and Transformers Laboratory	87	87	87	87	87	85	86	86	86	86	87	87	87	87	87	3	3	3	3	3
18HUM102 Principles of Management	93	84	92	67	74	78	78	80	80	79	90	83	90	70	75	3	3	3	1	2
18MAT104 Probability & Statistics	86	73	88	62	62	70	70	70	71	71	82	72	84	64	64	3	2	3	1	1
18EEE105 Electromagnetic Fields	60	60	67	65	64	78	79	77	78	79	63	64	69	67	67	1	1	1	1	1
18EEE106 Digital Electronics	67	65	60	69	68	82	82	82	83	84	70	68	65	72	72	2	1	1	2	2



## MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(UGC-AUTONOMOUS INSTITUTION)

Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi  
 NAAC Accredited with A+ Grade, NIRF India Rankings 2021 - Band: 201-250 (Engg.)  
 NBA Accredited - B.Tech. (CIVIL, CSE, CST, ECE, EEE, MECH), MBA & MCA



Course Code and Name	% CO attainment though Direct analysis					Course Exit Survey					Overall % CO Attainment					Overall CO Attainment Levels				
	CO 1	CO 2	CO 3	CO 4	CO 5	CO 1	CO 2	CO 3	CO 4	CO 5	CO 1	CO 2	CO 3	CO 4	CO 5	CO 1	CO 2	CO 3	CO 4	CO 5
18EEE107 Induction & Synchronous Machines	62	64	65	67	67	81	79	80	79	79	65	67	68	69	69	1	1	1	1	1
18EEE108 Control Systems	59	60	65	64	82	80	81	82	83	82	63	64	69	68	82	1	1	1	1	3
18EEE204 Digital Electronics Laboratory	92	92	92	92	92	79	78	78	77	78	89	89	89	89	89	3	3	3	3	3
18EEE205 Induction & Synchronous Machines Laboratory	94	94	94	94	94	77	77	76	76	76	91	91	91	90	91	3	3	3	3	3
18EEE206 Control Systems Laboratory	97	97	97	97	97	76	77	79	78	78	93	93	93	93	93	3	3	3	3	3
18ENG102-English Communication - Reading and Writing	76	78	76	74	79	87	87	86	89	89	79	80	78	77	81	2	3	2	2	3
18EEE109 Power Systems - I (Generation, Transmission & Distribution)	82	64	59	67	67	87	85	85	85	85	83	68	64	70	71	3	1	1	2	2
18EEE110 Power Electronics	70	73	78	76	63	86	87	87	88	87	73	76	80	79	68	2	2	3	2	1
18EEE111 Microcontroller and Interfacing	75	77	67	62	71	88	88	86	89	89	78	79	71	68	75	2	2	2	1	2
18EEE403 Industrial Electrical Systems	63	63	81	64	54	87	86	86	87	87	68	68	82	69	61	1	1	3	1	1
18EEE404 Special Electrical Machines	64	56	59	53	70	90	88	89	89	90	69	63	65	60	74	1	1	1	1	2
18EEE207 Power Systems-I Laboratory	88	88	88	88	88	91	91	88	89	87	89	89	88	88	88	3	3	3	3	3
18EEE208 Power Electronics Laboratory	91	91	91	91	91	84	82	85	84	83	90	89	90	90	90	3	3	3	3	3
18EEE209 Microcontroller and Interfacing Laboratory	88	88	88	88	88	89	89	89	88	89	88	88	88	88	88	3	3	3	3	3



## MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(UGC-AUTONOMOUS INSTITUTION)

Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi  
 NAAC Accredited with A+ Grade, NIRF India Rankings 2021 - Band: 201-250 (Engg.)  
 NBA Accredited - B.Tech. (CIVIL, CSE, CST, ECE, EEE, MECH), MBA & MCA



Course Code and Name	% CO attainment through Direct analysis					Course Exit Survey					Overall % CO Attainment					Overall CO Attainment Levels				
	CO 1	CO 2	CO 3	CO 4	CO 5	CO 1	CO 2	CO 3	CO 4	CO 5	CO 1	CO 2	CO 3	CO 4	CO 5	CO 1	CO 2	CO 3	CO 4	CO 5
18EEE112 AI Tools, Techniques and Applications	77	66	65	82	79	91	90	89	90	90	80	71	70	83	81	2	2	2	3	3
18EEE113 Signals & Systems	78	64	77	93	93	85	85	84	85	86	79	69	78	92	92	2	1	2	3	3
18EEE114 Power Systems - II	65	82	76	82	85	90	89	90	89	90	70	84	79	83	86	2	3	2	3	3
Design of Power Electronic Converters	62	62	62	62	62	80	81	80	81	79	66	66	66	66	65	1	1	1	1	1
18EEE407 Electrical Drives & Control	59	59	80	63	87	81	82	80	81	82	63	64	80	67	86	1	1	2	1	3
18EEE409 Electric Measurements and Instrumentation	80	64	57	56	58	79	81	78	80	78	80	67	61	61	62	3	1	1	1	1
18EEE210 Power Systems - II Laboratory	99	99	99	99	99	83	83	83	83	83	96	96	96	96	96	3	3	3	3	3
Corporate Communication Lab	100	100	100	100	100	85	85	85	85	85	97	97	97	97	97	3	3	3	3	3
18EEE115 Internet of Things	69	72	65	74	67	93	93	92	93	93	74	77	71	78	72	2	2	2	2	2
18EEE116 Switch Gear and Protection	74	63	85	81	82	94	93	93	94	94	78	69	86	84	85	2	1	3	3	3
Electrical Energy Conservation and auditing	81	79	68	57	73	95	95	95	96	96	84	82	73	65	77	3	3	2	1	2
18EEE418 Wind and Solar Energy Systems	68	77	83	55	70	94	94	95	94	94	73	81	85	63	75	2	3	3	1	2
18EEE211 Internet of Things Laboratory	100	100	100	100	100	89	88	88	88	89	97	97	97	97	97	3	3	3	3	3
18EEE212 Protection & Simulation Laboratory	100	100	100	100	100	95	95	95	94	94	99	99	99	99	99	3	3	3	3	3
18EEE701 Project Work - I	87	87	87	87	87	92	93	93	92	91	88	88	88	88	88	3	3	3	3	3



## MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(UGC-AUTONOMOUS INSTITUTION)

Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi  
NAAC Accredited with A+ Grade, NIRF India Rankings 2021 - Band: 201-250 (Engg.)  
NBA Accredited - B.Tech. (CIVIL, CSE, CST, ECE, EEE, MECII), MBA & MCA



Course Code and Name	% CO attainment though Direct analysis					Course Exit Survey					Overall % CO Attainment					Overall CO Attainment Levels				
	CO 1	CO 2	CO 3	CO 4	CO 5	CO 1	CO 2	CO 3	CO 4	CO 5	CO 1	CO 2	CO 3	CO 4	CO 5	CO 1	CO 2	CO 3	CO 4	CO 5
18EEE426 Smart Power Grid	83	79	69	72	78	91	91	92	91	92	85	81	74	76	81	3	3	2	2	3
18EEE702 Project Work - II	95	95	95	95	95	92	93	93	92	91	94	94	94	94	94	3	3	3	3	3

Program Coordinator

Head of the Department  
Electrical & Electronics Engineering  
Madanapalle Institute of Technology & Science  
MADANAPALLE - 517 325



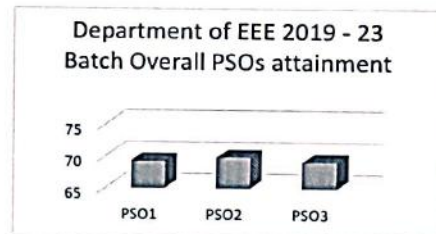
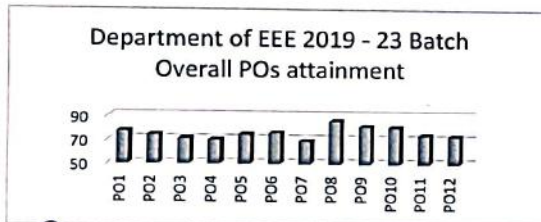
**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE**  
 (UGC-AUTONOMOUS INSTITUTION)  
 Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi  
 NAAC Accredited with A+ Grade, NIRF India Rankings 2021 - Band: 201-250 (Engg.)  
 NBA Accredited - B.Tech. (CIVIL, CSE, CST, ECE, EEE, MECH), MBA & MCA



**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

**Overall POs & PSOs Attainment of 2019 - 20 entry batch (2022-23 Passed out batch)**

Survey	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Employer Survey	87	91	89	90	91	90	89	90	87	90	89	90	90	92	91
Alumni Survey	93	91	90	91	90	90	92	92	91	92	92	91	91	89	91
Graduate Survey	92	89	90	91	91	91	90	91	91	91	90	91	92	91	92
In-Direct PO Attainment	91	90	90	91	91	90	90	91	90	91	90	91	91	91	92
Direct PO Attainment	73.96	70.36	66.80	65.23	70.53	72.25	64.09	84.60	79.00	77.98	69.82	68.65	63.82	64.57	63.47
<b>Overall Attainment in %</b>	<b>77</b>	<b>74</b>	<b>71</b>	<b>70</b>	<b>75</b>	<b>76</b>	<b>69</b>	<b>86</b>	<b>81</b>	<b>81</b>	<b>74</b>	<b>73</b>	<b>69</b>	<b>70</b>	<b>69</b>
<b>Overall Attainment in Levels</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>



Program Coordinator

HOD  
 Head of the Department  
 Electrical & Electronics - Engineering  
 Madanapalle Institute of Technology & Science  
 MADANAPALLE - 517 325





# MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(UGC-AUTONOMOUS INSTITUTION)

Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi  
NAAC Accredited with A+ Grade, NIRF India Rankings 2021 - Band: 201-250 (Engg.)  
NBA Accredited - B.Tech. (CIVIL, CSE, CST, ECE, EEE, MECH), MBA & MCA



## Department of Electrical & Electronics Engineering Analysis of attainment of POs & PSOs for 2019-2023 B. Tech batch

Sl. No.	POs & PSOs	Overall PO attainment	Attainment Target	Remarks
1.	PO1	77	70	Attained
2.	PO2	74	70	Attained
3.	PO3	71	70	Attained
4.	PO4	70	70	Attained
5.	PO5	75	70	Attained
6.	PO6	76	70	Attained
7.	PO7	69	70	Not Attained
8.	PO8	86	70	Attained
9.	PO9	81	70	Attained
10.	PO10	81	70	Attained
11.	PO11	74	70	Attained
12.	PO12	73	70	Attained
13.	PSO1	69	70	Not Attained
14.	PSO2	70	70	Attained
15.	PSO3	69	70	Not Attained

Program Coordinator

Head of the Department  
Electrical & Electronics Engineering  
Madanapalle Institute of Technology & Science  
MADANAPALLE - 517 325