

## 1.2.2 Number of Add on /Certificate programs offered during the last five years (10)

2016-2017		
Sl. No	Name of Add on /Certificate programs offered	Pg.No
1.	<b>EC16172 - Enclosure design of Electronics equipment</b>	
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	Circular	3
	Syllabus	4-5
	Willing Student List	6-14
	Course Delivery	15-16
	Resource Person Details	17-18
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	Attendance	21-30
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2.	<b>EC16171 - Analysis and Design Principle of Microwave Antenna</b>	
	Permission	34
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	Syllabus	36-37
	Willing Student List	38-46
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	One Page Report	59
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# M.I.E.T. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)

TRICHY - PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI - 620 007.

Email: principalengg@miet.edu, contact@miet.edu

Website: - www.miet.edu

Ph: 0431 - 2660 303

Date: 12.12.2016

To

The Principal

M.I.E.T Engineering College,

Trichy - 620007

Respected Madam,

Sub: Permission to conduct the certificate program - Reg...

We have planned to conduct the certificate program for our Second year and Third Year students from 19.12.2016 to 23.12.2016)

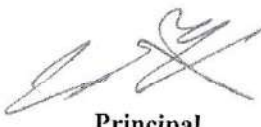
Name of the Certificate Program	Course Coordinator
Enclosure design of Electronics Equipment	Mrs. D.Rekha AP/ECE & Mr.S.M.Muthupandi AP/ECE

So kindly give us permission to conduct the course and to utilize the class room.

Thanking you

  
Course Coordinator

  
HoD/ECE

  
Principal

  
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Ph: 0431 - 2669 303

14.12.2016

### CIRCULAR

#### Sub: Certificate Program

It is planned to conduct the Certificate Program for the Second year and Third year Electronics and Communication Engineering students.


The Certificate Program is short term certificate courses which are designed and offered by our department for the benefit of our students.

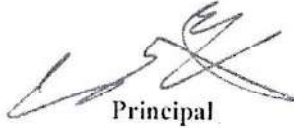
Certificate Program will be conducted at free of cost and based on the performance of the participated students, the merit certificate will be issued after the successful completion of the course.

Students those who are willing to attend the below mentioned course can enroll their name to the course coordinator.

Name of the Certificate Program	Course Coordinator
Enclosure design of Electronics Equipment	Mrs. D.Rekha AP/ECE & Mr.S.M.Muthupandi AP/ECE
Commencement of course from 19.12.2016 to 23.12.2016 Time: 09.00 AM - 6.00 PM	

  
Course Coordinator

  
HOD/ECE

  
Principal

  
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Ph: 0431 - 2660 303

## Certificate Program (II Year/IV Semester and III Year/VI Semester)

### Course Syllabus

Name of the Course: Enclosure design of Electronics Equipment

Course Code: EC16172

Course Coordinator: Mrs. D.Rekha AP/ECE & Mr.S.M.Muthupandi AP/ECE

Total hours:34

Academic Year:2016-2017

#### Objectives:

- Introduction to designing enclosures for electronic products
- Provide the basics of designing for the various environments that the products must survive in.

#### UNIT 1: Introduction to design of electronic product enclosures

7

Enclosure design for Electronics Equipment Introduction, Aspects and features that are non-electrical and are essential to Electronic Product Realization, Enclosure Design in electronic equipment, Design as applied to small electronics products and projects.

#### UNIT 2: Embodiment design of enclosures

7

Alternate Designs in an everyday item, Sheet metal in small equipment (PSU), Layouts and Materials of small equipment, Materials used for construction, Materials Selection, Materials choice, Aluminum for common equipment, Use of Aluminium extrusions, Application of Sheet metal, Sheet Metal bending.

#### UNIT 3: Making enclosures with sheet metal

7

Development of enclosures for bending, Video of Fabrication, What can be done in the lab Bending Issues in bending and folding, Making a quick model, Making enclosures with Plastic, Detailing in plastic, Fabricating with flat plastic, Video in ID Lab, Off the shelf enclosures, Readymade enclosures.

#### UNIT 4: Safety and Environmental Classes of Electronic Enclosures

7

Application documentation and Selection, Index of protection, Safety, NEMA and related, Testing for IP class, Sealed Enclosures Video, How enclosures can be designed to protect, Public utility boxes, EMI Sealing, Sealed Enclosures.

#### UNIT 5: Connectors

6

Connectors, Common connectors, Connectors (multi way) and CoAx, MIL C connectors, Using CAD to design electronic enclosures, CAD in Layout Drawing, Types of CAD, CAD for enclosure Design.

Total Hours:34

  
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**Course Outcomes:**

Upon the completion of this course, students will demonstrate the ability to:

- The purpose of this course is to sensitize a registrant to various aspects of an electronics product. Specifically on n on electrical aspects like mechanical design and detailing.
- Starting from a need translated into specifications, leading to design and prototyping and ending up in a manufacturable physical prototype.

**Text Books:**


- Thuesen HG, Fabrycky WJ, Thuesen GJ. Engineering Economy, 1971, Prentice-Hall Inc., Englewood Cliffs, N.J.
- Roark RJ, Young WC (1975) Formulas for stress and strain. McGraw-Hill Book Co., New York

**Reference Books:**

- Byars EF, Snyder RD (1969) Engineering mechanics of deformable bodies. International Textbook Co., Scranton
- Huthwaite B, Product design for manufacture & assembly (DFMA). Troy Engineering, 1989, International Conference on Industrial and Engineering Applications of A.I. & Expert Systems.

  
Course Coordinator

  
HoD/ECE

  
Principal

  
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## Willing Student list

**CP1 Coordinator: Analysis and Design principle of Microwave Antenna**

**CP2 Coordinator: Enclosure design of Electronics Equipment**

**Academic Year: 2016-2017**

SL. NO	STUDENT NAME	<u>CP1</u> Analysis and Design principle of Microwave Antenna	<u>CP2</u> Enclosure design of Electronics Equipment
1.	Asha Victoria. A		✓
2.	Bakkia Priya. M		✓
3.	Baranidharan. S		✓
4.	Catherine. V		✓
5.	Dayana. T		✓
6.	Deepika. S		✓
7.	Denil Desosa. J		
8.	Fathima. L		
9.	Ghousia Shimaen. A		✓
10.	Hema. R		✓
11.	Hisham. S		✓
12.	Iyyappan. S		✓
13.	Janapriya. S		✓
14.	Joshua Francis. B		
15.	Keerthana. A		

*[Signature]*  
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SL. NO	STUDENT NAME	CP1 Analysis and Design principle of Microwave Antenna	CP2 Enclosure design of Electronics Equipment
16.	Kousalya. M		✓
17.	Madhumathi. R		✓
18.	Mahariba. M		✓
19.	Malathy. R		✓
20.	Manimegalai. M		✓
21.	Manisha. R		✓
22.	Mathavi. K		✓
23.	Merlin Sybila. S		✓
24.	Mohamed Matharsha. S		✓
25.	Mohamed Thowfeek Faruk. T.Z		✓
26.	Nabeez Ahamed. J		✓
27.	Nagarjun. D		✓
28.	Nasreen Banu. N		✓
29.	Nithiyanantham. G		✓
30.	Preethi. S		✓
31.	Prithivi. V		✓
32.	Priyadharshini. A		✓
33.	Pruthika. S		✓
34.	Ramya. B		✓
35.	Rasika. A		✓
36.	Roslin Shalini. J		✓


  
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SL. NO	STUDENT NAME	<u>CP1</u> Analysis and Design principle of Microwave Antenna	<u>CP2</u> Enclosure design of Electronics Equipment
37.	Saranya. S		✓
38.	Sheik Abdul Kathar. I		✓
39.	Shirazunnisha. S.S		✓
40.	Siva. P		✓
41.	Sornaprabhu. B		✓
42.	Swathika. A		✓
43.	Swathika. V		✓
44.	Tabassum Siddiqua. T		✓
45.	Thakira. J		✓
46.	Tharanya. V		✓
47.	Thasneem Banu. M		✓
48.	Vennila. B		✓
49.	Yoga. P		✓
50.	Yogalakshmi. P		✓
51.	Antony Santhosh Raj. Y. Y		✓
52.	Beaulah Kirubavathy. B		✓
53.	Karthika. M		✓
54.	Mahadir Mohamed. M		✓
55.	Mary Ezhil Arasi. R		✓
56.	Mohamed Nasurudeen. K		✓
57.	Praveen Kumar. B		✓

  
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SL. NO	STUDENT NAME	CP1 Analysis and Design principle of Microwave Antenna	CP2 Enclosure design of Electronics Equipment
58.	Revathibalasathiyavathi. B		✓
59.	Subashini. V		✓
60.	Yogeshwaran.M. M		✓
61.	Ayesha Siddiqah. S	✓	
62.	Deepthi. D	✓	
63.	Karkuzhali. S	✓	
64.	Mahabupparveen. S	✓	
65.	Maria Sweetly. P	✓	
66.	Mohamed Rifai. M	✓	
67.	Mohamed Yasar Arafath. M		✓
68.	Mohamed Rabeek. S	✓	
69.	Monisha. A	✓	
70.	Monisha Juliet. M	✓	
71.	Muthu Lakshmi. C		✓
72.	Ramba. S		✓
73.	Rojini Preetha. M	✓	
74.	Sabeena Begam. A	✓	
75.	Sriram. S	✓	
76.	Suresh Babu. S	✓	
77.	Sushmithabanu. A	✓	
78.	Vijayabaskar. M	✓	

  
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SL. NO	STUDENT NAME	<u>CP1</u> Analysis and Design principle of Microwave Antenna	<u>CP2</u> Enclosure design of Electronics Equipment
79.	Vinodhini. S		✓
80.	Ajith. N		✓
81.	Arun Prasanth. K		✓
82.	Fathima Begum. M		✓
83.	Imran. F		✓
84.	Infant Durai Raj. C		✓
85.	Jayalakshmi. S		✓
86.	Kalaiyaran. A		✓
87.	Mohamed Farooq. K		✓
88.	Mohamed Irshad Hussain. A		✓
89.	Mohamed Noordeen. B		✓
90.	Pahalavan. R		✓
91.	Palaniyappan-. S		✓
92.	Pavithra. P		✓
93.	Punitha. A		✓
94.	Sahana. M		✓
95.	Shabeek Ahamed. S		✓
96.	Terrence. E		✓
97.	Thiyagaraj. S		✓
98.	Abdul Bessam. S	✓	
99.	Abinaya. K	✓	

  
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SL. NO	STUDENT NAME	<u>CP1</u> Analysis and Design principle of Microwave Antenna	<u>CP2</u> Enclosure design of Electronics Equipment
100.	Abinaya. T	✓	
101.	Abirami. M	✓	
102.	Alexander. W	✓	
103.	Anil Kumar. S	✓	
104.	Anitha. R		
105.	Anna Srinivasan. T.A		
106.	Arun. J		
107.	Asif Hussain. J.M	✓	
108.	Chindhamani. K	✓	
109.	Deepika. R	✓	
110.	Dhivyapriya. S		
111.	Divya. S	✓	
112.	Gunasekar. A	✓	
113.	Hajira. M	✓	
114.	Ibrahim Fazil. Y	✓	
115.	Ilakiya. A		
116.	Iyswarya. S	✓	
117.	Jaya Priya. J	✓	
118.	Jayasri. J	✓	
119.	Jayasudha. M		
120.	John Meshak. S	✓	

  
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SL. NO	STUDENT NAME	CP1 Analysis and Design principle of Microwave Antenna	CP2 Enclosure design of Electronics Equipment
121.	Kalavathi. M	✓	
122.	Kanagaraj. M		
123.	Kaviya Priya. K		
124.	Keerthana. M		
125.	Kousalya. R		
126.	Kowsalya (29-10-1995). K		
127.	Kowsalya (02-04-1996). K		
128.	Lakshmi Priyadharshini. B		
129.	Mageshwari. A		
130.	Mahadir Mohamed Vaseem. J.S		
131.	Manikandan. S		
132.	Meena. J		
133.	Mehala. C		
134.	Mohamed Firnas. B		
135.	Mohamed Haameem. M		
136.	Mohamed Natharsha. A		
137.	Vivek. G		
138.	Naga Venkata Ramana. S		
139.	Nagalingam. K		
140.	Nandhini. G		
141.	Padmapriya. A		

  
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SL. NO	STUDENT NAME	CP1 Analysis and Design principle of Microwave Antenna	CP2 Enclosure design of Electronics Equipment
142.	Paranika. S		
143.	Pavithra (16.05.96). R		
144.	Pavithra (31.05.96). R	✓	
145.	Prema. C	✓	
146.	Ragavi. R	✓	
147.	Rajachidambaram. R	✓	
148.	Ramya. C	✓	
149.	Rojaammal. M	✓	
150.	Sabitha. C	✓	
151.	Sana Bakthiyar. S	✓	
152.	Sankari. K	✓	
153.	Sasmitha. N	✓	
154.	Sathiya Sheela. M	✓	
155.	Shanmugaraj. P	✓	
156.	Sheik Aslam Khan. A	✓	
157.	Shofiya Stella. J	✓	
158.	Siva. R.K	✓	
159.	Siva Lakshmi. S	✓	
160.	Sivaranjani. P	✓	
161.	Stephy Beula. J	✓	
162.	Suguna. K	✓	

  
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SL. NO	STUDENT NAME	<u>CP1</u> Analysis and Design principle of Microwave Antenna	<u>CP2</u> Enclosure design of Electronics Equipment
163.	Sukumar. S	✓	
164.	Tamilselvan. T	✓	
165.	Thulasi Brindha. S	✓	
166.	Udhayavani. U	✓	
167.	Umamaheshwari. P	✓	
168.	Vengadesan. M	✓	
169.	Victoria. R		
170.	Vidhyaleela. C		
171.	Vishnu Varthan. M		
172.	Vithiya Sri. Y		
173.	Yogesh. M	✓	
174.	Shahad Saleem. A.S	✓	
175.	Mohamed Ibrahim. S	✓	
176.	Mohan Raj. Y	✓	
177.	Syed Mohamed Ashiq. M	✓	
178.	Virat Chouhan. S		

*Supra*

Course Coordinator

HOD/ECE

*[Signature]*

Principal

*[Signature]*  
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Ph: 0431 - 2660 303

### Certificate Program (II Year/IV Semester and III Year/VI Semester)

#### Program Schedule

Name of the Course: Enclosure design of Electronics Equipment

Course Code: EC16172

Course Coordinator: Mrs. D.Rekha AP/ECE & Mr.S.M.Muthupandi AP/ECE

Total Hours: 34

Academic Year: 2016-2017

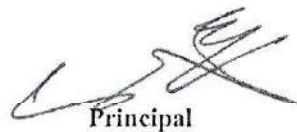
Sl.No	Topics to be Covered	Hours	Date of Delivery
1.	Introduction to design of electronic product enclosures	7	19.12.2016
2.	Basic of Electronics Component		
3.	Enclosure design for Electronics Equipment Introduction		
4.	Aspects and features that are non-electrical		
5.	essential to Electronic Product Realization		
6.	Enclosure Design in electronic equipment		
7.	Design as applied to small electronics products and projects.		
8.	Alternate Designs in an everyday item	7	20.12.2016
9.	Sheet metal in small equipment (PSU),		
10.	Layouts and Materials of small equipment,		
11.	Materials used for construction		
12.	Materials Selection, Materials choice		
13.	Aluminum for common equipment,		
14.	Use of Aluminum extrusions, Application of Sheet metal, Sheet Metal bending		
15.	Development of enclosures for bending	7	21.12.2016
16.	lab Bending Issues in bending and folding.		
17.	Making a quick model, Making enclosures with Plastic		
18.	Detailing in plastic, Fabricating with flat plastic		
19.	Fabricating with flat plastic		
20.	Video in ID Lab, Off the shelf enclosures		
21.	Readymade enclosures		
22.	Application documentation and Selection, Index of protection	7	22.12.2016

  
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Sl.No	Topics to be Covered	Hours	Date of Delivery
22.	Application documentation and Selection, Index of protection	7	22.12.2016
23.	Safety, NEMA and related		
24.	Testing for IP class		
25.	Sealed Enclosures Video		
26.	How enclosures can be designed to protect		
27.	Public utility boxes		
28.	EMI Sealing. Sealed Enclosures		
29.	Connectors	7	23.12.2016
30.	Connectors (multi way)		
31.	CoAx, MIL C connectors		
32.	Using CAD to design electronic enclosures		
33.	CAD in Layout Drawing		
34.	Types of CAD, CAD for enclosure Design		

  
Course Coordinator

  
HOD/ECE

  
Principal

  
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Ph: 0431 – 2660 303

<b>Title of the program</b>	<b>Enclosure design of Electronics Equipment</b>
<b>Course Code</b>	<b>EC16172</b>
<b>Duration and timing of the program</b>	<b>34 Hrs, 09.00AM – 6.00 PM</b>
<b>Name of the resource person</b>	<b>Mr.S.M.Muthupandi AP/ECE</b>
<b>Photo of the resource person</b>	
<b>Email address</b>	<b>smmpandi81@gmail.com</b>
<b>Contact number</b>	<b>9790675887</b>
<b>Designation</b>	<b>Assistant Professor</b>
<b>Educational qualification</b>	<p>➤ <b>B.E -Electronics and Communication Engineering 2003</b> in Government College of Engg,Tirunelveli, with 70%</p> <p><b>M.E –Communication System 2010</b> in Pavendar Bharathidasan College of Engg&amp;Technology,CGPA 8.4</p>
<b>Experience</b>	➤ Teaching Experience – 10 Years.

*Aref*  
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## Resource Person Details

Title of the program	Enclosure design of Electronics Equipment
Course Code	EC16172
Duration and timing of the program	34 Hrs, 09.00AM - 6.00 PM
Name of the resource person	Mrs. D.Rekha AP/ECE
Photo of the resource person	
Email address	Rekha.d@miet.edu
Contact number	9786884099
Designation	Assistant Professor
Educational qualification	<ul style="list-style-type: none"> <li>➤ B.E -Electronics and Communication Engineering 2004 in JJ College of Engineering and Technology (Anna University), Chennai, Tamil Nadu, with 65.5%.</li> <li>➤ M.E -Communication System 2011 in Ponnaiyah Ramajayam College of Engineering and Technology with CGPA 7.2</li> </ul>
Experience	<ul style="list-style-type: none"> <li>➤ Teaching Experience - 11 Years.</li> </ul>

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### Certificate Program Assessment Test

Name of the course: Enclosure design of Electronics Equipment

Course Code: EC16172  
Academic Year: 2016-2017

Date: 23.12.2016  
Time: 01:30 hrs

1. Which of these are non-electrical components in an electronic product?

Batteries

Handle

Connectors

Display Panel

2. Which of these facilities is not available in CEDT/DESE, IISc, which you would find in a company that manufactures electronic products?

Product Design

Sales and Marketing

Fabrication

Quality Control

3. Which of these is NOT a tangible or quantifiable characteristic of a product?

Customer Satisfaction

Battery Life

Durability

Overall weight

4. Which of these considerations in the shape of the product does NOT affect its usability?

Colour

Ergonomics

Display aesthetics

Cost

5. When designing for a target user who is a young child, which of these aesthetic qualities will you consider imbuing into the design?

Cute

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Elegant

Industrial

Rugged

6. In the context of industrial design and product development choose the correct full form of IP

Instrument Panel

Index of Protection

Intellectual Property

Internet Protocol

7. Which of these is NOT a type of a sketch?

Technical

Ideation

Blueprint

Concept

8. Which of these qualities makes a product an augmented product?

Features

Maintenance Plan

Functionality

Styling

9. Which of the following items is NOT covered under the definition of industrial design as defined by the International Council of Societies of Industrial Design?

Appearance

Servicing

Functionality

Value

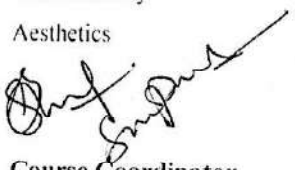
10. "Comfort" is covered under which aspect of a product?


Functionality

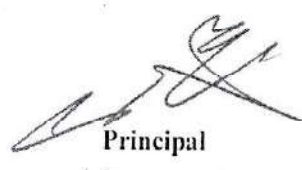
Ergonomics

Marketability

Aesthetics

  
Course Coordinator

  
HOD/EEE

  
Principal

  
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# M.I.E.T. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)  
TRICHY - PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI - 620 007.  
Email: principal@miet.edu, contact@miet.edu  
Website: www.miet.edu

Ph: 0431 - 2660 303

## Certificate Program (II Year/IV Semester and III Year/VI Semester)

### Attendance Sheet

Name of the course: Enclosure design of Electronics Equipment

Course code: EC16172

Course coordinator: Mrs. D.Rekha AP/ECE & Mr.S.M.Muthupandi AP/ECE

Academic Year: 2016-17

SL.NO	ROLL NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1.	E1154001	Asha Victoria. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2.	E1154002	Bakkia Priya. M	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
3.	E1154003	Baranidharan. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4.	E1154004	Catherine. V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5.	E1154005	Dayana. T	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6.	E1154007	Deepika. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7.	E1154010	Ghousia Shimaen. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8.	E1154011	Hema. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9.	E1154012	Hisham. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10.	E1154013	Iyyappan. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11.	E1154014	Janapriya. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12.	E1154018	Kousalya. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

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*A. S. S.*  
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SL.NO	ROLL NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
13.	E1154019	Madhumathi. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14.	E1154020	Mahariba. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
15.	E1154021	Malathy. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16.	E1154022	Manimegalai. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
17.	E1154023	Manisha. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
18.	E1154024	Mathavi. K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
19.	E1154025	Merlin Sybila. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
20.	E1154026	Mohamed Matharsha. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
21.	E1154027	Mohamed Thowfeek Faruk. T.Z	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
22.	E1154029	Nabeez Ahamed. J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
23.	E1154030	Nagarjun. D	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
24.	E1154031	Nasreen Banu. N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
25.	E1154032	Nithiyanantham. G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
26.	E1154033	Preethi. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
27.	E1154034	Prithivi. V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
28.	E1154035	Priyadharshini. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
29.	E1154036	Pruthika. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
30.	E1154039	Ramya. B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/



SL.NO	ROLL NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	20
31.	E1154040	Rasika. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
32.	E1154041	Roslin Shalini. J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
33.	E1154043	Saranya. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
34.	E1154044	Sheik Abdul Kathar. I	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
35.	E1154046	Shirazunnisha. S.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
36.	E1154047	Siva. P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
37.	E1154048	Sornaprabhu. B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
38.	E1154049	Swathika. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
39.	E1154050	Swathika. V	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
40.	E1154051	Tabassum Siddiqua. T	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
41.	E1154052	Thakira. J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
42.	E1154053	Tharanya. V	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
43.	E1154054	Thasneem Baru. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
44.	E1154055	Vennila. B	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
45.	E1154056	Yoga. P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
46.	E1154057	Yogalakshmi. P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
47.	E2164059	Antony Santhosh Raj.Y. Y	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
48.	E2164061	Beaulah Kirubavathy. B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

SL.NO	ROLL NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	20
49.	E2164062	Karthika. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
50.	E2164063	Mahadir Mohamed. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
51.	E2164064	Mary Ezhil Arasi. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
52.	E2164065	Mohamed Nasurudeen. K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
53.	E2164066	Praveen Kumar. B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
54.	E2164067	Revathibalasathiyavathi. B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
55.	E2164068	Subashini. V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
56.	E2164069	Yogeshwaran.M. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
57.	E1144008	Mohamed Yasar Arafath. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
58.	E1144012	Muthu Lakshmi. C	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
59.	E1144014	Ramba. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
60.	E1144022	Vinodhini. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
61.	E2154023	Ajith. N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
62.	E2154024	Arun Prasanth. K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
63.	E2154025	Fathima Begum. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
64.	E2154026	Imran. F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
65.	E2154027	Infant Durai Raj. C	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
66.	E2154028	Jayalakshmi. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

*A. Arif*  
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GUNDUR, TIRUCHIRAPPALLI-620 007.



SL.NO	ROLL NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
67.	E2154029	Kalaiyarsan. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
68.	E2154030	Mohamed Farooq. K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
69.	E2154031	Mohamed Irshad Hussain. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
70.	E2154032	Mohamed Noordeen. B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
71.	E2154033	Pahalavan. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
72.	E2154034	Palaniyappan-. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
73.	E2154035	Pavithra. P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
74.	E2154036	Punitha. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
75.	E2154037	Sahana. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
76.	E2154038	Shabeek Ahamed. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
77.	E2154039	Terrence. E	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
78.	E2154040	Thiyagaraj. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Total No Students Presents			56	59	42	70	62	64	78	69	71	69	63	62	59	58	62	64	61	63	68	65
Total No Students Absent			22	19	30	68	16	13	10	9	0	7	15	16	19	20	16	14	17	15	10	13
Signature Course Coordinator																						

*A. S. S.*  
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 GUNDUR, TIRUCHIRAPPALLI-620 007.

SL. NO	ROLL NO	STUDENT NAME	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
1.	E1144002	Ayesha Siddiqah. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2.	E1144003	Deepthi. D	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3.	E1144004	Karkuzhali. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4.	E1144005	Mahabupparveen. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5.	E1144006	Maria Sweet. P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6.	E1144007	Mohamed Rifai. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7.	E1144009	Mohamed Rabeek. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8.	E1144010	Monisha. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9.	E1144011	Monisha Juliet. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10.	E1144015	Rojini Preetha. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11.	E1144016	Sabeena Begam. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12.	E1144018	Sriram. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13.	E1144019	Suresh Babu. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14.	E1144020	Sushmithabanu. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
15.	E1144021	Vijayabaskar. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16.	E1134001	Abdul Bessam. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
17.	E1134002	Abinaya. K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/



SL. NO	ROLL NO	STUDENT NAME	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
18.	E1154001	Asha Victoria. A																						
19.	E1154002	Bakkia Priya. M																						
20.	E1154003	Baranidharan. S																						
21.	E1154004	Catherine. V																						
22.	E1154005	Dayana. T																						
23.	E1154007	Deepika. S																						
24.	E1154010	Ghousia Shimaen. A																						
25.	E1154011	Hema. R																						
26.	E1154012	Hisham. S																						
27.	E1154013	Iyyappan. S																						
28.	E1154014	Janapriya. S																						
29.	E1154018	Kousalya. M																						
30.	E1154019	Madhumathi. R																						
31.	E1154020	Mahariba. M																						
32.	E1154021	Malathy. R																						
33.	E1154022	Manimegalai. M																						
34.	E1154023	Manisha. R																						

Principal  
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PRINCIPAL COLLEGE  
M. J. ENGINEERING COLLEGE  
GEORGETOWN, THIRUCHIRAPPALLI 620007.

SL. NO	ROLL NO	STUDENT NAME	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
35.	E1154024	Mathavi. K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
36.	E1154025	Merlin Sybila. S	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
37.	E1154026	Mohamed Matharsha. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
38.	E1154027	Mohamed Thowfeek Faruk. T.Z	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
39.	E1154029	Nabeez Ahamed. J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
40.	E1154030	Nagarjun. D	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
41.	E1154031	Nasreen Banu. N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
42.	E1154032	Niithiyanantham. G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
43.	E1154033	Preethi. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
44.	E1154034	Prithivi. V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
45.	E1154035	Priyadharshini. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
46.	E1154036	Pruthika. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
47.	E1154039	Ranya. B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
48.	E1154040	Rasika. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
49.	E1154041	Roslin Shalini. J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
50.	E1154043	Saranya. S	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a



SL. NO	ROLL NO	STUDENT NAME	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
51.	E1154044	Sheik Abdul Kathar. I	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
52.	E1154046	Shirazunnisha. S.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
53.	E1154047	Siva. P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
54.	E1154048	Sornaprabhu. B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
55.	E1154049	Swathika. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
56.	E1154050	Swathika. V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
57.	E1154051	Tabassum Siddiqua. T	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
58.	E1154052	Thakira. J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
59.	E1154053	Tharanya. V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
60.	E1154054	Thasneem Banu. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
61.	E1154055	Vennila. B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
62.	E1154056	Yoga. P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
63.	E1154057	Yogalakshmi. P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
64.	E2164059	Antony Santhosh Raj.Y. Y	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
65.	E2164061	Beulah Kirubavathy. B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
66.	E2164062	Karthika. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

2/11

A.raj.  
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SL. NO	ROLL NO	STUDENT NAME	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
67.	E2164063	Mahadir Mohamed. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
68.	E2164064	Mary Ezhil Arasi. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
69.	E2164065	Mohamed Nasurudeen. K	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
70.	E2164066	Praveen Kumar. B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
71.	E2164067	Revathibalasathiyavat hi. B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
72.	E2164068	Subashini. V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
73.	E2164069	Yogeshwaran.M. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
74.	E1144008	Mohamed Yasar Arafath. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
75.	E1144012	Muthu Lakshmi. C	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
76.	E1144014	Ramba. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
77.	E1144022	Vinodhini. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
78.	E2154023	Ajith. N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Total No Students Presents			63	68	67	70	55	59	62	55	62	64	68	59	65	69	64	63	68	59	55	63	64	68
Total No Students Absent			15	10	11	08	23	19	16	23	16	14	10	19	13	10	14	15	10	19	23	15	14	10
Signature Course Coordinator			N	P	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Course Coordinator

HOD/ECE

Principal

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*A. S. S.*  
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TRICHY - PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI - 620 007.

Email: principalengg@miet.edu, contact@miet.edu

Website: - www.miet.edu

Ph: 0431 - 2660 303

### Report

Name of the course: **Enclosure design of Electronics Equipment**

Course Code: **EC16172**


Course Coordinator: **Mrs. D.Rekha AP/ECE & Mr.S.M.Muthupandi AP/ECE**


Total Hours: **36**


Academic Year: **2016-2017**

I hereby affirm that the entire course contents listed in the course syllabus of the certificate program **"Enclosure design of Electronics Equipment"** have educated to the students as the part of the prescribed co – curricular activities through Certificate Program.

Students have understood to design a small electronic products and also have knowledge to use the material. I confirmed that the certificate program titled as **"Enclosure design of Electronics Equipment"** has been conducted in the beginning of the semester and course delivery along with attendance of the students was recorded. I confirmed that all the students were actively attended this certificate Program and performed well throughout the program and eligible students received the certificate.

  
Course Coordinator

  
HOD/ECE

  
Principal

  
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# M.I.E.T. ENGINEERING COLLEGE

Trichy, Pudukkottai Road, Trichy - 620 007.



## Course Completion Certificate

This is to Certify that Mr/Ms. P. Hema  
of U E L F has Completed the Course on

Enclosure design of Electronic equipment from 19.12.2016 to 23.12.2016

[Signature]  
Course Coordinator

[Signature]  
Mod

[Signature] Principal  
A. Jay PRINCIPAL  
M.I.E.T. ENGINEERING COLLEGE  
TIRUCHIRAPPALLI-620 007.  
GUDUR.



# M.I.E.T. ENGINEERING COLLEGE

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## Course Completion Certificate

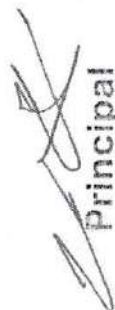
This is to Certify that Mr/Ms. N. K. K. K.  
of U. C. C. has Completed the Course on  
Exposure design of Electronic Equipment from 19.12.2016 to 23.12.2016



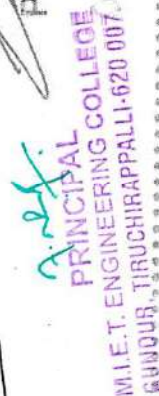
Course Coordinator



Head



Principal

  
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Email: principalsengg@miet.edu, contact@miet.edu  
Website: - www.miet.edu

Ph: 0431 - 2660 303

Date: 27.06.2016

To

The Principal  
M.I.E.T Engineering College,  
Trichy - 620007

Respected Madam,

Sub: Permission to conduct the certificate program - Reg...


We have planned to conduct the certificate program for our Third and Final year students  
from (5.07.2016 to 9.07.2016)

Name of the Certificate Program	Course Coordinator
Analysis and Design principle of Microwave Antenna	Mrs.A.S.Biji AP/ECE & Ms.T.Nithya AP/ECE

So kindly give us permission to conduct the course and to utilize the class room.

Thanking you

  
Course Coordinator

  
HOD/ECE

  
Principal

  
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Website: www.miet.edu

Ph: 0431 - 2660 303

29.06.2016

### CIRCULAR

#### Sub: Certificate Program

It is planned to conduct the Certificate Program for the Third year and Final year Electronics and Communication Engineering students.

The Certificate Program is short term certificate courses which are designed and offered by our department for the benefit of our students.

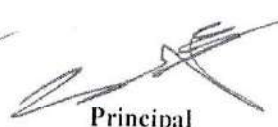
Certificate Program will be conducted at free of cost and based on the performance of the participated students, the merit certificate will be issued after the successful completion of the course.

Students those who are willing to attend the below mentioned course can enroll their name to the course coordinator.

Name of the Certificate Program	Course Coordinator
Analysis and Design principle of Microwave Antenna	Mrs.A.S.Biji AP/ECE & Ms.T.Nithya AP/ECE
Commencement of course from 05.07.2016 to 09.07.2016 Time: 09.00 AM - 5.30 PM	

  
Course Coordinator

  
HOD ECE

  
Principal

  
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Website: - www.miet.edu

Ph: 0431 - 2660 303

## Certificate Program ( III Year/V Semester and IV Year /VII Semester )

### Course Syllabus

Name of the Course: Analysis and Design principle of Microwave Antenna

Course Code: EC16171

Course Coordinator: Mrs.A.S.Biji AP/ECE & Ms.T.Nithya AP/ECE

Total hours: 36

Academic Year:2016-2017

#### Objectives:

- An understanding of microwave waveguides, passive & active devices, tubes and network analysis.
- An ability to design microwave matching networks.
- An ability to Understand microwave Components

#### Unit-1 Basic of Microwave antenna

8

Review of TEM, TE, and TM mode solutions of Maxwell's equations; TEM mode transmission lines: lossless line, line with small losses, power flow in a terminated line; QuasiTEM mode lines: Fields in microstriplines and striplines, losses in Microstrips, Microstrip discontinuities, coupled lines, slot lines and coplanar waveguides; Surface waveguides: Surface waves along an impedance plane, dielectric-coated conducting plane, slab waveguide, corrugated plane; Wave velocities.

#### Unit-2 Microwave Circuit Theory Principles:

8

Equivalent voltages and currents; Z, Y, S, and ABCD parameters; Equivalent circuit representation of microwave junctions; Scattering parameter analysis of microwave junctions; Coupling of waveguides through probes, loops, and apertures.

#### Unit-3 Impedance Transformers:

8

Review of single-, double- and triple-stub tuners, waveguide reactive elements, quarter-wave transformers, design of maximally flat and Chebyshev transformers; Introduction to tapered transmission lines.

#### Unit-4 Power Dividers and Couplers:

6

Scattering matrix of 3- and 4-port junctions; Design of T-junction and Wilkinson power dividers; Design of hybrids and 180°90 hybrids.

#### Unit-5 Filters and Resonators:

6

  
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Analysis of periodic structures, Floquet's theorem, filter design by insertion loss method, maximally flat and Chebyshev designs, Resonators- Principles of microwave resonators, loaded, unloaded and external Q, open and shorted TEM lines as resonators, microstrip resonators, dielectric resonators.

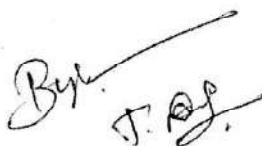
**Total hours:36**

**Outcome:**


- Apply the basic principles and evaluate antenna parameters and link power budgets
- Design and assess the performance of various antennas
- Design a microwave system given the application specifications

**Reference Books:**

- Collin, R.E., "Foundations for Microwave Engineering", 2nd Ed., John Wiley & Sons. 2000
- 2. Pozar, D.M., "Microwave Engineering", 3rd Ed., John Wiley & Sons. 2004
- 3. Edwards, T.C. and Steer M.B., "Foundations for Interconnects and Microstrip Design", 3rd Ed., John Wiley & Sons. 2001
- 4. Ludwig, R. and Bretchko, P., "RF Circuit Design", Pearson Education. 2000
- 5. Hunter, I., "Theory and Design of Microwave Filters", IEE Press. 2001
- 6. Misra, D.K., "Radio-frequency and Microwave Communication Circuits", John Wiley & Sons. 2001

  
Course Coordinator

  
Principal

  
Principal

  
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Website: - www.miet.edu

Ph: 0431 - 2660 303

## Willing Student list

**CP1 Coordinator: Analysis and Design principle of Microwave Antenna**

**CP2 Coordinator: Enclosure design of Electronics Equipment**

**Academic Year: 2016-2017**

SL. NO	STUDENT NAME	<u>CP1</u> Analysis and Design principle of Microwave Antenna	<u>CP2</u> Enclosure design of Electronics Equipment
1.	Asha Victoria. A		✓
2.	Bakkia Priya. M		✓
3.	Baranidharan. S		✓
4.	Catherine. V		✓
5.	Dayana. T		✓
6.	Deepika. S		✓
7.	Denil Desosa. J		
8.	Fathima. L		
9.	Ghousia Shimaen. A		✓
10.	Hema. R		✓
11.	Hisham. S		✓
12.	Iyyappan. S		✓
13.	Janapriya. S		✓
14.	Joshua Francis. B		
15.	Keerthana. A		

  
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SL. NO	STUDENT NAME	<u>CP1</u> Analysis and Design principle of Microwave Antenna	<u>CP2</u> Enclosure design of Electronics Equipment
16.	Kousalya. M		✓
17.	Madhumathi. R		✓
18.	Mahariba. M		✓
19.	Malathy. R		✓
20.	Manimegalai. M		✓
21.	Manisha. R		✓
22.	Mathavi. K		✓
23.	Merlin Sybila. S		✓
24.	Mohamed Matharsha. S		✓
25.	Mohamed Thowfeek Faruk. T.Z		✓
26.	Nabeez Ahamed. J		✓
27.	Nagarjun. D		✓
28.	Nasreen Banu. N		✓
29.	Nithiyanantham. G		✓
30.	Preethi. S		✓
31.	Prithivi. V		✓
32.	Priyadharshini. A		✓
33.	Pruthika. S		✓
34.	Ramya. B		✓
35.	Rasika. A		✓
36.	Roslin Shalini. J		✓

  
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SL. NO	STUDENT NAME	CP1 Analysis and Design principle of Microwave Antenna	CP2 Enclosure design of Electronics Equipment
37.	Saranya. S		✓
38.	Sheik Abdul Kathar. I		✓
39.	Shirazunnisha. S.S		✓
40.	Siva. P		✓
41.	Sornaprabhu. B		✓
42.	Swathika. A		✓
43.	Swathika. V		✓
44.	Tabassum Siddiqua. T		✓
45.	Thakira. J		✓
46.	Tharanya. V		✓
47.	Thasneem Banu. M		✓
48.	Vennila. B		✓
49.	Yoga. P		✓
50.	Yogalakshmi. P		✓
51.	Antony Santhosh Raj. Y. Y		✓
52.	Beaulah Kirubavathy. B		✓
53.	Karthika. M		✓
54.	Mahadir Mohamed. M		✓
55.	Mary Ezhil Arasi. R		✓
56.	Mohamed Nasurudeen. K		✓
57.	Praveen Kumar. B		✓

  
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SL. NO	STUDENT NAME	<u>CP1</u> Analysis and Design principle of Microwave Antenna	<u>CP2</u> Enclosure design of Electronics Equipment
58.	Revathibalasathiyavathi. B		✓
59.	Subashini. V		✓
60.	Yogeshwaran.M. M		✓
61.	Ayesha Siddiqah. S	✓	
62.	Deepthi. D	✓	
63.	Karkuzhali. S	✓	
64.	Mahabupparveen. S	✓	
65.	Maria Sweetty. P	✓	
66.	Mohamed Rifai. M	✓	
67.	Mohamed Yasar Arafath. M		✓
68.	Mohamed Rabeek. S	✓	
69.	Monisha. A	✓	
70.	Monisha Juliet. M	✓	
71.	Muthu Lakshmi. C		✓
72.	Ramba. S		✓
73.	Rojini Preetha. M	✓	
74.	Sabeena Begam. A	✓	
75.	Sriram. S	✓	
76.	Suresh Babu. S	✓	
77.	Sushmithabanu. A	✓	
78.	Vijayabaskar. M	✓	

  
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SL. NO	STUDENT NAME	CP1 Analysis and Design principle of Microwave Antenna	CP2 Enclosure design of Electronics Equipment
79.	Vinodhini. S		✓
80.	Ajith. N		✓
81.	Arun Prasanth. K		✓
82.	Fathima Begum. M		✓
83.	Imran. F		✓
84.	Infant Durai Raj. C		✓
85.	Jayalakshmi. S		✓
86.	Kalaiyaran. A		✓
87.	Mohamed Farooq. K		✓
88.	Mohamed Irshad Hussain. A		✓
89.	Mohamed Noordeen. B		✓
90.	Pahalavan. R		✓
91.	Palaniyappan-. S		✓
92.	Pavithra. P		✓
93.	Punitha. A		✓
94.	Sahana. M		✓
95.	Shabeek Ahamed. S		✓
96.	Terrence. E		✓
97.	Thiyagaraj. S		✓
98.	Abdul Bessam. S	✓	
99.	Abinaya. K	✓	

  
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SL. NO	STUDENT NAME	CP1 Analysis and Design principle of Microwave Antenna	CP2 Enclosure design of Electronics Equipment
100.	Abinaya. T	✓	
101.	Abirami. M	✓	
102.	Alexander. W	✓	
103.	Anil Kumar. S	✓	
104.	Anitha. R		
105.	Anna Srinivasan. T.A		
106.	Arun. J		
107.	Asif Hussain. J.M	✓	
108.	Chindhamani. K	✓	
109.	Deepika. R	✓	
110.	Dhivyapriya. S		
111.	Divya. S	✓	
112.	Gunasekar. A	✓	
113.	Hajira. M	✓	
114.	Ibrahim Fazil. Y	✓	
115.	Ilakiya. A		
116.	Iyswarya. S	✓	
117.	Jaya Priya. J	✓	
118.	Jayasri. J	✓	
119.	Jayasudha. M		
120.	John Meshak. S	✓	

  
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SL. NO	STUDENT NAME	CP1 Analysis and Design principle of Microwave Antenna	CP2 Enclosure design of Electronics Equipment
121.	Kalavathi. M	✓	
122.	Kanagaraj. M		
123.	Kaviya Priya. K		
124.	Keerthana. M		
125.	Kousalya. R		
126.	Kowsalya (29-10-1995). K		
127.	Kowsalya (02-04-1996). K		
128.	Lakshmi Priyadharshini. B		
129.	Mageshwari. A		
130.	Mahadir Mohamed Vaseem. J.S		
131.	Manikandan. S		
132.	Meena. J		
133.	Mehala. C		
134.	Mohamed Firnas. B		
135.	Mohamed Haameem. M		
136.	Mohamed Natharsha. A		
137.	Vivek. G		
138.	Naga Venkata Ramana. S		
139.	Nagalingam. K		
140.	Nandhini. G		
141.	Padmapriya. A		


  
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SL. NO	STUDENT NAME	CP1 Analysis and Design principle of Microwave Antenna	CP2 Enclosure design of Electronics Equipment
142.	Paranika. S		
143.	Pavithra (16.05.96). R		
144.	Pavithra (31.05.96). R	✓	
145.	Prema. C	✓	
146.	Ragavi. R	✓	
147.	Rajachidambaram. R	✓	
148.	Ramya. C	✓	
149.	Rojaammal. M	✓	
150.	Sabitha. C	✓	
151.	Sana Bakthiyar. S	✓	
152.	Sankari. K	✓	
153.	Sasmitha. N	✓	
154.	Sathiya Sheela. M	✓	
155.	Shanmugaraj. P	✓	
156.	Sheik Aslam Khan. A	✓	
157.	Shofiya Stella. J	✓	
158.	Siva. R.K	✓	
159.	Siva Lakshmi. S	✓	
160.	Sivaranjani. P	✓	
161.	Stephy Beula. J	✓	
162.	Suguna. K	✓	

7.25.  
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SL. NO	STUDENT NAME	CP1 Analysis and Design principle of Microwave Antenna	CP2 Enclosure design of Electronics Equipment
163.	Sukumar. S	✓	
164.	Tamilselvan. T	✓	
165.	Thulasi Brindha. S	✓	
166.	Udhayavani. U	✓	
167.	Umamaheshwari. P	✓	
168.	Vengadesan. M	✓	
169.	Victoria. R		
170.	Vidhyaleela. C		
171.	Vishnu Varthan. M		
172.	Vithiya Sri. Y		
173.	Yogesh. M	✓	
174.	Shahad Saleem. A.S	✓	
175.	Mohamed Ibrahim. S	✓	
176.	Mohan Raj. Y	✓	
177.	Syed Mohamed Ashiq. M	✓	
178.	Virat Chouhan. S		

  
Course Coordinator

  
HoD/ECE

  
Principal

  
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TRICHY - PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI - 620 007.  
Email: principalengg@miet.edu, contact@miet.edu  
Website: - www.miet.edu

Ph: 0431 - 2660 303

## Certificate Program (III/V Semester and IV Year/VII Semester)

### Program Schedule

Name of the Course: Analysis and Design principle of Microwave Antenna

Course Code: EC16171

Course Coordinator: Mrs.A.S.Biji AP/ECE & Ms.T.Nithya AP/ECE

Total Hours: 36

Academic Year: 2016-2017

SL.No	Topics to be Covered	Hours	Date of Delivery
1.	Review of TEM, TE, and TM mode solutions of Maxwell equations	7	4.07.2016
2.	TEM mode transmission lines: lossless line, line with sma losses		
3.	power flow in a terminated line		
4.	QuasiTEM mode lines: Fields in microstriplines an striplines		
5.	Losses in Microstrips, Microstrip discontinuities		
6.	Coupled lines, slot lines and coplanar waveguides		
7.	Surface waveguides		
8.	Slab waveguide, corrugated plane; Wave velocities.	7	5.07.2016
9.	Equivalent voltages and currents; Z, Y, S		
10.	ABCD parameters		
11.	Equivalent circuit representation of microwave junctions;		
12.	Scattering parameter analysis of microwave junctions		
13.	Coupling of waveguides through probes		
14.	loops		
15.	Apertures	7	06.07.2017
16.	Review of single-, double- and triple-stub tuners		
17.	waveguide reactive elements		
18.	quarter-wave transformers		
19.	Design of maximally flat		
20.	Chebyshev transformers		

  
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Sl.No	Topics to be Covered	Hours	Date of Delivery
21.	Introduction to tapered transmission lines.		
22.	Scattering matrix of 3 port Junction	7	07.07.2016
23.	Scattering matrix of 4 port Junction		
24.	4-port junctions		
25.	Design of T-junction		
26.	Wilkinson power dividers		
27.	Design of hybrids		
28.	180°90 hybrids.	7	08.07.2016
29.	Analysis of periodic structures		
30.	Floquet's theorem		
31.	Filter design by insertion loss method		
32.	Maximally flat and Chebyshev designs, Resonators		
33.	Principles of microwave resonators		
34.	loaded, unloaded and external Q		
35.	open and shorted TEM lines as resonators	1	09.07.2016
36.	Microstrip resonators, dielectric resonators.		

  
Course Coordinator

  
HoD/ECE

  
Principal

  
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Website: - www.miet.edu

Ph: 0431 - 2660 303

Title of the program	Analysis and Design principle of Microwave Antenna
Course Code	EC16171
Duration and timing of the program	36 Hrs, 09.00AM - 05.30 PM
Name of the resource person	Ms.T.Nithya AP/ECE
Photo of the resource person	
Email address	tnithya806@gmail.com
Contact number	9500675380
Designation	Assistant Professor
Educational qualification	<ul style="list-style-type: none"><li>➤ B.E -Electronics and Communication Engineering 2001 in Sudharsan Engineering College (Anna University), Chennai, Tamil Nadu, with 83.6%.</li><li>➤ M.E -Communication System 2013 in J.J College of Engineering and Technology affiliated to Anna University Chennai with CGPA 84.7%</li></ul>
Experience	<ul style="list-style-type: none"><li>➤ Teaching Experience - 1 Years.</li></ul>

  
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 Website: - www.miet.edu

Ph: 0431 - 2660 303

## Resource Person Details

Title of the program	Analysis and Design principle of Microwave Antenna
Course Code	EC16171
Duration and timing of the program	36 Hrs, 09.00AM - 05.30 PM
Name of the resource person	Mrs.A.S.Biji AP/ECE
Photo of the resource person	
Email address	bijiraja94@gmail.com
Contact number	9486968125
Designation	Assistant Professor
Educational qualification	<ul style="list-style-type: none"> <li>➤ B.E -Electronics and Communication Engineering 2001 in JJ College of Engineering and Technology (Anna University), Chennai, Tamil Nadu, with 72.34%.</li> <li>➤ M.E -Communication System 2013 in Oxford Engg College, affiliated to Anna University Chennai with CGPA 8.28</li> </ul>
Experience	<ul style="list-style-type: none"> <li>➤ Teaching Experience - 10 Years.</li> </ul>

*A. S. Biji*  
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Ph: 0431 - 2660 303

## Certificate Program (III Year /V Semester and IV Year/VII Semester)

### Attendance Sheet

Name of the course: Analysis and Design principle of Microwave Antenna

Course code: EC16171

Course coordinator: Mrs.A.S.Biji AP/ECE & Ms.T.Nithya AP/ECE

Academic Year: 2016-17

SL.NO	ROLL NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	18	20
1.	E1144002	Ayesha Siddiqah. S	/	/	a	/	/	/	/	a	/	/	/	a	/	/	a	/	/	/	a	/
2.	E1144003	Deepthi. D	/	/	/	/	a	/	/	/	a	/	/	/	a	/	/	/	/	/	a	/
3.	E1144004	Karkuzhali. S	/	/	/	/	/	a	/	/	a	/	/	/	/	a	/	/	/	/	a	/
4.	E1144005	Mahabupparveen. S	/	/	/	/	/	/	/	/	a	/	/	/	/	a	/	/	/	/	/	a
5.	E1144006	Maria Sweety. P	a	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/
6.	E1144007	Mohamed Rifai. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7.	E1144009	Mohamed Rabeek. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8.	E1144010	Monisha. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9.	E1144011	Monisha Juliet. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10.	E1144015	Rojini Preetha. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11.	E1144016	Sabeena Begam. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12.	E1144018	Sriram. S	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

*A.S.Biji*  
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SLNO	ROLL NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	18	20
13.	E1144019	Suresh Babu. S	/	/	a	/	/	/	a	/	/	/	/	/	a	/	/	/	/	/	a	/
14.	E1144020	Sushmithabanu. A	a	/	/	/	/	a	/	/	/	a	/	/	/	a	/	/	/	/	a	/
15.	E1144021	Vijayabaskar. M	/	a	/	/	a	/	/	/	a	/	/	a	/	/	a	/	/	/	a	/
16.	E1134001	Abdul Bessam. S	/	/	/	/	/	/	/	/	a	/	/	a	/	/	/	/	/	/	a	/
17.	E1134002	Abinaya. K	/	/	/	a	/	/	/	/	/	/	/	/	/	a	/	/	/	/	a	/
18.	E1134003	Abinaya. T	/	/	/	/	/	a	/	/	/	/	/	/	a	/	/	/	/	/	a	/
19.	E1134004	Abirami. M	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	a	/
20.	E1134006	Alexander. W	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	a	/
21.	E1134007	Anil Kumar. S	/	a	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	a
22.	E1134011	Asif Hussain. JM	/	/	/	/	/	/	/	/	a	/	/	a	/	/	/	/	/	/	a	/
23.	E1134012	Chindhamani. K	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	a
24.	E1134013	Deepika. R	a	/	/	/	/	a	/	/	/	/	/	/	a	/	/	/	/	/	/	/
25.	E1134015	Divya. S	/	/	/	/	/	/	a	/	/	/	/	a	/	/	/	/	/	/	a	/
26.	E1134016	Gunasekar. A	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	a	/	/	/	a
27.	E1134017	Hajira. M	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/
28.	E1134018	Ibrahim Fazil. Y	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
29.	E1134020	Iyswarya. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
30.	E1134021	Jaya Priya. J	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/


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**M.I.E.T. ENGINEERING COLLEGE**  
**NO. 10, CHENNAI ROAD, CHENNAI - 600 007.**  
**GUNBUNDU**

SL.NO	ROLL NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	18	20
31.	E1134024	John Meshak. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
32.	E1134025	Kalavathi. M	/	a	/	/	/	a	/	/	/	/	/	a	/	/	/	a	/	/	/	/
33.	E1134047	Pavithra (31.05.96). R	a	/	/	/	a	/	/	/	a	/	/	/	/	/	a	/	/	/	a	a
34.	E1134048	Prema. C	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a
35.	E1134049	Ragavi. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a
36.	E1134050	Rajachidambaram. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a
37.	E1134051	Ramya. C	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a
38.	E1134052	Rojaammal. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a
39.	E1134053	Sabitha. C	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a
40.	E1134054	Sana Bakthiyar. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a
41.	E1134055	Sankari. K	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a
42.	E1134056	Sasmitha. N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a
43.	E1134057	Sathiya Sheela. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a
44.	E1134061	Shanmugaraj. P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a
45.	E1134062	Sheik Aslam Khan. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a
46.	E1134063	Shofiya Stella. J	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a
47.	E1134064	Siva. R.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a
48.	E1134065	Siva Lakshmi. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a

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SL.NO	ROLL NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	18	20
49.	E1134066	Sivaranjani. P	/	/	/	a	/	/	/	a	/	/	/	/	a	/	/	/	/	/	a	/
50.	E1134067	Stephy Beula. J	a	/	/	/	a	/	/	/	a	/	a	/	/	/	a	/	/	/	a	/
51.	E1134068	Suguna. K	/	/	a	/	/	/	a	/	/	a	/	/	/	a	/	/	a	/	/	/
52.	E1134069	Sukumar. S	/	a	/	/	/	a	/	/	/	/	/	a	/	/	/	a	/	/	/	/
53.	E1134070	Tamilselvan. T	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	a
54.	E1134071	Thulasi Brindha. S	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
55.	E1134072	Udhayavani. U	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/
56.	E1134073	Umamaheshwari. P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a
57.	E1134074	Vengadesan. M	a	/	/	/	/	a	/	/	/	/	/	/	/	/	a	/	/	/	/	/
58.	E1134079	Yogesh. M	/	/	a	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/
59.	E2134085	Shahad Saleem. A.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
60.	E2134080	Mohamed Ibrahim. S	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a
61.	E2134081	Mohan Raj. Y	/	/	/	a	/	/	/	/	a	/	/	/	/	/	/	a	/	/	/	/
62.	E2134082	Syed Mohamed Ashiq. M	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/

  
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SL. NO	ROLL NO	STUDENT NAME	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
1.	E1144002	Ayesha Siddiqah. S	/	/	/	a	/	/	/	a	/	/	/	a	/	/	/	/	a	/	/	/	a	/
2.	E1144003	Deepthi. D	/	/	a	/	/	/	a	/	/	/	a	/	/	/	/	a	/	/	/	/	/	a
3.	E1144004	Karkuzhali. S	a	/	/	/	a	/	/	/	a	/	/	/	/	a	/	/	/	/	a	/	/	a
4.	E1144005	Mahabupparveen. S	/	/	/	/	/	a	/	/	/	/	/	/	a	/	/	/	/	a	/	/	/	/
5.	E1144006	Maria Sweet. P	/	a	/	/	/	/	/	a	/	/	/	/	/	a	/	/	/	a	/	/	/	/
6.	E1144007	Mohamed Rifai. M	/	/	/	a	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	a	/	/
7.	E1144009	Mohamed Rabeek. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a
8.	E1144010	Monisha. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9.	E1144011	Monisha Juliet. M	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/
10.	E1144015	Rojini Preetha. M	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11.	E1144016	Sabeena Begam. A	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12.	E1144018	Sriram. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13.	E1144019	Suresh Babu. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14.	E1144020	Sushmithabanu. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
15.	E1144021	Vijayabaskar. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16.	E1134001	Abdul Bessam. S	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
17.	E1134002	Abinaya. K	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

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SL. NO	ROLL NO	STUDENT NAME	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
18.	E1134003	Abinaya. T	/	/	a	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
19.	E1134004	Abirani. M	/	a	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
20.	E1134006	Alexander. W	/	/	/	a	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/
21.	E1134007	Anil Kumar. S	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
22.	E1134011	Asif Hussain. J.M	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
23.	E1134012	Chindhamani. K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
24.	E1134013	Deepika. R	/	a	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
25.	E1134015	Divya. S	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
26.	E1134016	Gunasekar. A	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
27.	E1134017	Hajira. M	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
28.	E1134018	Ibrahim Fazil. Y	/	a	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
29.	E1134020	Iyswarya. S	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
30.	E1134021	Jaya Priya. J	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
31.	E1134024	John Meshak. S	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
32.	E1134025	Kalavathi. M	/	/	a	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
33.	E1134047	Pavithra (31.05.96). R	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
34.	E1134048	Prema. C	/	a	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

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M.L.E.T. ENGINEERING CO. - GE  
GUNDUR, TIRUCHIRAPPALLI-621 107.



SL. NO	ROLL NO	STUDENT NAME	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
35.	E1134049	Ragavi. R	/	a	/	/	/	a	/	/	/	a	/	/	/	a	/	/	/	a	/	/	/	/
36.	E1134050	Rajachidambaram. R	/	/	/	a	/	/	/	/	/	/	/	a	/	/	/	/	/	/	a	/	/	/
37.	E1134051	Ranya. C	/	/	a	/	/	/	/	a	/	/	/	/	/	/	/	a	/	/	/	/	a	/
38.	E1134052	Rojaammal. M	/	/	/	/	a	/	/	/	/	/	/	/	a	/	/	a	/	/	/	/	/	/
39.	E1134053	Sabitha. C	a	/	/	/	/	/	a	/	b	/	a	/	/	/	a	/	/	/	/	a	/	/
40.	E1134054	Sana Bakthiyar. S	/	/	/	/	a	/	/	/	/	a	/	/	/	/	/	a	/	/	/	a	/	a
41.	E1134055	Sankari. K	/	a	/	/	/	a	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/
42.	E1134056	Sasmitha. N	/	/	a	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	a	/
43.	E1134057	Sathiya Sheela. M	/	/	a	b	/	/	/	/	/	a	/	/	/	b	/	/	/	/	/	/	/	/
44.	E1134061	Shamugaraj. P	/	/	/	/	a	/	/	b	/	/	a	/	/	/	/	/	/	a	/	/	/	/
45.	E1134062	Sheik Aslam Khan. A	a	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	a	/
46.	E1134063	Shofiya Stella. J	/	/	a	/	/	/	a	/	/	a	/	/	/	/	a	/	/	/	/	/	a	/
47.	E1134064	Siva. R.K	/	a	/	/	/	/	/	/	a	/	/	/	/	/	/	a	/	/	/	/	/	/
48.	E1134065	Siva Lakshmi. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
49.	E1134066	Sivaranjani. P	/	/	/	/	/	a	/	/	/	/	/	/	/	a	/	/	/	/	a	/	/	a
50.	E1134067	Stephy Beula. J	/	/	a	/	a	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/
51.	E1134068	Suguna. K	/	/	/	a	/	/	/	a	/	/	/	/	a	/	/	/	/	/	/	a	/	/

  
**PRINCIPAL**  
 M.I.E.T. ENGINEERING COLLEGE  
 GUNDUR, TIRUCHIRAPPALLI-620 007.



SL. NO	ROLL NO	STUDENT NAME	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
52.	E1134069	Sukumar. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
53.	E1134070	Tamilselvan. T	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
54.	E1134071	Thulasi Brindha. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
55.	E1134072	Udhayavani. U	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
56.	E1134073	Umamaheshwari. P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
57.	E1134074	Vengadesan. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
58.	E1134079	Yogesh. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
59.	E2134085	Shahad Saleem. A.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
60.	E2134080	Mohamed Ibrahim. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
61.	E2134081	Mohan Raj. Y	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
62.	E2134082	Syed Mohamed Ashiq. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

*B. V. G. S. S.*  
Course Coordinator

*A. J. S.*  
HoD/ECE

*[Signature]*  
Principal

*A. J. S.*  
PRINCIPAL  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.



## M.I.E.T. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)  
TRICHY - PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI - 620 007.  
Email: principalengg@miet.edu, contact@miet.edu  
Website: - www.miet.edu

Ph: 0431 - 2660 303

### Report

Name of the course: Analysis and Design principle of Microwave Antenna

Course Code: EC16171

Course Coordinator: Mrs.A.S.Biji AP/ECE & Ms.T.Nithya AP/ECE

Total Hours: 36

Academic Year: 2016-2017

I hereby affirm that the entire course contents listed in the course syllabus of the certificate program "Analysis and Design principle of Microwave Antenna" have educated to the students as the part of the prescribed co - curricular activities through Certificate Program.

Students have understood the basic of Microwave antenna, this course combines both active and passive microwave circuits as well as antenna system.

I confirmed that the certificate program titled as "Analysis and Design principle of Microwave Antenna" has been conducted in the beginning of the semester and course delivery along with attendance of the students was recorded. I confirmed that all the students were actively attended this certificate Program and performed well throughout the program and eligible students received the certificate.

  
Course Coordinator

  
HoD/ECE

  
Principal

  
PRINCIPAL  
M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.



# M.I.E.T. ENGINEERING COLLEGE

Trichy, Pudukkottai Road, Trichy - 620 007.



## Course Completion Certificate

This is to Certify that Mr/Ms. S. Subramani  
of Final Year - ECE has Completed the Course on  
Analysis of Design principles from 5.7.2016 to 9.7.2016  
Kulasekaran Arulana

B. V. S.  
Course Coordinator

A. C.  
Hod

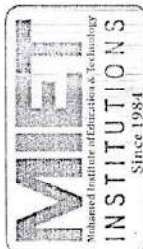
A. S. F.  
PRINCIPAL

M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.



# M.I.E.T. ENGINEERING COLLEGE

Trichy, Pudukkottai Road, Trichy - 620 007.



## Course Completion Certificate

This is to Certify that Mr/Ms. Y. Mohan Raj  
of Final year EEE has Completed the Course on  
Analysis & Design principles of transmission lines from 5.7.2016 to 9.7.2016

B. V. S.  
Course Coordinator

A. V. S.  
Hod

[Signature]  
Principal

A. V. S.  
PRINCIPAL

M.I.E.T. ENGINEERING COLLEGE  
GUNDUR, TIRUCHIRAPPALLI-620 007.