

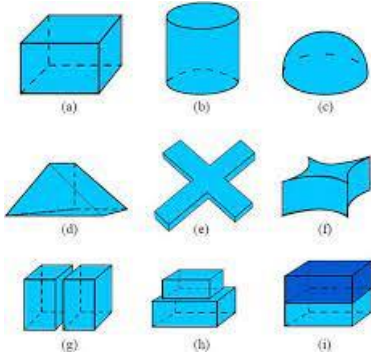
AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, Permanently Affiliated to JNT University Kakinada,
Accredited by NAAC and Recognized under 2(f) & 12 (b) by UGC, New Delhi)
Tamaram, Makavarapalem, Narsipatnam (RD),
Visakhapatnam-531113



Certificate Course
on

Dielectric Resonator Antennas

From 21st March 2022 to 26th March 2022



ORGANIZED BY

DEPT. OF ELECTRONICS AND COMMUNICATION ENGINEERING
AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY,
MAKAVARAPALEM (V), VISAKHAPATNAM-531113

AVANTHI EDUCATIONAL SOCIETY

Avanthi Educational Society under the Leadership of Sri M.Srinivasa Rao garu as chairman was started in the Year 1991. Within a short span of its establishment, the group has made a remarkable stride in the field of education offering various courses at Under Graduate, Post Graduate, Pharmacy & Engineering levels. This milestone is achieved as the institution carved itself to impart quality and career oriented education, countering the challenges of the modern world through planning, dedication, determination, prompt execution and with the innovative ideas of our advisory board.

Today, Avanthi Educational Society is proud to have a strength of over 16000 students with 15 institutions under its ambit. It is the path of glory towards the success during the last 19 years. The institution has been adjudged many times as the second best educational institutions in the twin cities and 16th best in all over India through the impartial survey made by the renowned magazine "India Today".

AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

AIET started in the year 1999 and offers various courses at Engineering and PG level. The college is providing with rooms, computer centre, laboratories and seminar hall with audio-visual equipments. Industry Institute interaction is conducted regularly to emphasize on the latest trends in the present market.



It is very near to Narsipatnam. Frequent bus facilities are available both from and to Visakhapatnam and Narsipatnam. Very safe and secure hostel facility is available for Girl students. These are the additional facilities besides excellent academic atmosphere in the college campus.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

The ECE Department was established in the year 1999 with an intake of 60 students and this was increased to 120 students in the 2007 and increased to 180 students in the 2012. The department has an eminent faculty and well supported infrastructure and laboratories. The faculty keeps abreast with the latest advances in technology and ensures that hardware equipment and related software are upgraded to ensure its students are able to keep pace with current trends in technology and the industry.

The department also offers a Post – Graduate courses in DECS and VLSI Design. The students are encouraged to participate in workshops, industrial internship, industrial visits and seminars; along with the projects assigned during the course, these activities enable them to broaden their outlook and build in professionalism that makes their transition from college to industry smoother after graduation.

ABOUT COURSE

The requirement for efficient and low-profile antennas has fuelled research work in the development of antenna structures with performances considerably enhanced over traditional antenna structures and methodologies. In this context, the development of the dielectric resonator antenna technology has taken significant strides in overcoming fundamental limitations in the design of broadband and efficient antenna structures

TOPICS TO BE COVERED

Day-1: Introduction to dielectric resonators

Day-2: Feeding Structures

Day-3: DRA Size Reduction Methods

Day-4: DRA Gain Enhancement Methods

Day-5: Impedance Bandwidth Enhancement Methods of DRAs

Day-6: Circular Polarization and conclusion

For Registration please contact Miss B.Maha Lakshmi, Assistant Professor, ECE

CHIEF PATRON Smt.M.Ganeswari President, Avanthi Educational Society	PATRON Dr. C P V N J Mohan Rao Principal, Avanthi Institute Of Engineering And Technology	CHAIRMAN Dr. E. Govinda Head of the Department Electronics and Communication Engineering
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AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

Tamaram, Makavarapalem, Narsipatnam (RD), Visakhapatnam-531113

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CIRCULAR

Date: 16/03/2022.

This is informed to all the IV& I B.Tech ECE students that our department is planning to conduct one week course on “**Dielectric Resonator Antennas**” scheduled from 21-03-2022 to 26-03-2022. It is directed to all the students of IV& I ECE to utilize this opportunity to enhance your technical skills. For more details about registration process and participation contact Course Coordinator Miss B.Maha Lakshmi, Assistant Professor, ECE.

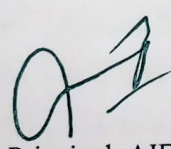
Resource Person Details:

1. Dr. M.Rajan Babu,
Professor,
Department of ECE,
Lendi institute of engineering and technology,
Vizianagaram.
2. Dr.K.Chandra Bhushana Rao,
Professor,
Department of ECE,
JNTU-GV College of Engineering,
Dwarapudi, Vizianagaram


E. Govinda

Head of the Department,

ECE
HEAD OF THE DEPARTMENT
DEPARTMENT OF ECE
Avanthi Institute of Engg. & Tech.
Makavarapalem, Visakhapatnam Dist-531113.


Copy to: Principal, AIET

Principal
Avanthi Institute of Engg. & Technology
Tamaram, Makavarapalem Md.,
Visakhapatnam District., Pin: 531113



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Tamaram, Makavarapalem, Narsipatnam (RD), Visakhapatnam-531113

Dielectric Resonator Antennas

From 21st March 2022 To 26th March 2022

SYLLABUS

Day-1: Introduction to dielectric resonators

Day-2: Feeding Structures

Day-3: DRA Size Reduction Methods

Day-4: DRA Gain Enhancement Methods

Day-5: Impedance Bandwidth Enhancement Methods of DRAs

Day-6: Circular Polarization and conclusion

E. Govinda
CHAIRMAN

&

Head of the Department
Electronics and communication Engineering

B. Maha Lakshmi
Asst. Professor

Coordinator

HEAD OF THE DEPARTMENT
DEPARTMENT OF ECE
Avanthi Institute of Engg. & Tech.
Makavarapalem, Visakhapatnam Dist: 531113



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Dielectric Resonator Antennas

From 21st March 2022 To 26th March 2022

Schedule

Day-1 (21/03/2022)

09:00 to 10:00	Inaugural Session
10:00 to 12:00	Introduction to dielectric resonators
12:00 to 01:00	Lunch Break
01:00 to 04:00	EXPLAIN two popular radiating dielectric resonators

Day-2 (22/03/2022)

09:00 to 12:00	Feeding Structures
12:00 to 01:00	Lunch Break
01:00 to 04:00	Coplanar-Waveguide-Fed DRA

Day-3(23/03/2022)

09:00 to 12:00	DRA Size Reduction Methods
12:00 to 01:00	Lunch Break
01:00 to 04:00	Probe-Fed DRA, Microstrip Transmission Line-Fed DRA

Day-4(24/03/2022)

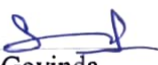

09:00 to 12:00	DRA Gain Enhancement Methods
12:00 to 01:00	Lunch Break
01:00 to 04:00	High Relative Dielectric Constant, Metal Plate along Symmetry Plane

Day-5(25/03/2022)

09:00 to 12:00	Impedance Bandwidth Enhancement Methods of DRAs
12:00 to 01:00	Lunch Break
01:00 to 04:00	Combining and Shaping Different Dielectric Resonators

Day-6(26/03/2022)

09:00 to 12:00	Circular Polarization
12:00 to 01:00	Lunch Break
01:00 to 04:00	conclusion

 E. Govinda CHAIRMAN & Head of the Department Electronics and Communication Engineering	 B.Maha Lakshmi Asst. Professor Coordinator
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HEAD OF THE DEPARTMENT
DEPARTMENT OF ECE
Avanthi Institute of Engg.&Tech.
Makavarapalem, Visakhapatnam Dist-53- 113.



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
 Tamaram, Makavarapalem, Narsipatnam (RD), Visakhapatnam-531113

Dielectric Resonator Antennas

From 21st March 2022 To 26th March 2022

IV & I BTECH ECE STUDENTS ATTENDANCE LIST

S.NO	REG NO	NAME OF THE STUDENT	21/3	22/3	23/3	24/3	25/3	26/3
1.	18811A0401	ARIPAKA MANOHAR	✓	✓	✗	✓	✓	✓
2.	18811A0402	ASODA SUMITH GOLDIE YUVRAJ	✓	✓	✓	✓	✓	✗
3.	18811A0404	BEJAWADA TEJASWI	✓	✓	✓	✓	✓	✓
4.	18811A0405	CHALUMURI MAHESH	✓	✓	✓	✓	✓	✓
5.	18811A0406	CHINTAKAYALA TULASI	✓	✓	✓	✓	✓	✓
6.	18811A0407	CHODISETTI DIVAKAR MANIKANTA NOOKESH	✓	✓	✓	✓	✓	✓
7.	18811A0408	CHUKKA REVATHI	✓	✓	✓	✓	✓	✓
8.	18811A0409	GANTA JAYA VARDHINI	✗	✓	✓	✓	✓	✓
9.	18811A0410	GANTA ROHIT CHOWDHARY	✓	✓	✓	✓	✓	✓
10.	18811A0411	GILAKAMSETTI LAVANYA	✓	✓	✓	✓	✓	✓
11.	18811A0412	GORLI POOJITHA	✓	✓	✓	✓	✓	✓
12.	18811A0413	GORLI TRIVENI	✓	✓	✓	✓	✓	✓
13.	18811A0415	KARANAM MANIKANTA	✓	✓	✓	✓	✓	✓
14.	18811A0416	KOSURI INDIRA	✓	✓	✓	✓	✓	✓
15.	18811A0417	MAKIREDDI NIHARIKA	✓	✗	✓	✓	✓	✓
16.	18811A0418	NAMBARU MADHUKANTH	✓	✓	✓	✓	✓	✓
17.	18811A0419	NANEPALLI BHAGAVAN	✓	✓	✓	✓	✓	✓
18.	18811A0420	NEERUKATTU MANOJ	✓	✓	✓	✓	✓	✓
19.	18811A0421	PAMPANA SAI SRAVANI	✓	✓	✓	✓	✓	✓
20.	18811A0422	PAMPANA SYAMALA	✓	✓	✓	✓	✓	✓
21.	18811A0423	PEDIREDLA BHAVANI	✓	✓	✓	✓	✓	✓
22.	18811A0424	PERUSOMULA CHANDRA KIRAN	✓	✓	✓	✓	✓	✓
23.	18811A0425	POLUPARTI PRAVALLIKA DEVI	✓	✓	✓	✓	✓	✓
24.	18811A0426	RAJANA MOUNICA	✓	✓	✓	✓	✓	✓
25.	18811A0427	RONGALA SUGUNA	✓	✓	✓	✓	✓	✓
26.	18811A0428	RUTTALA PRASAD	✓	✓	✓	✓	✓	✓

27.	18811A0429	SAPPA DURGA PRASAD	✓	✓	✓	✓	✓	✓
28.	18811A0430	SAYAM SAI SRIRAM	✓	✓	✓	✓	✓	✓
29.	18811A0431	SURLA SUNITHA	✓	✓	✓	✓	✓	✓
30.	18811A0432	THATTA VENNELA SRI SAI	✓	✓	✓	✓	✓	✓
31.	18811A0433	VANTU SATYA SRAVANI	✓	✓	✓	✓	✓	✓
32.	18811A0435	YELURI VENKATA SHANMUKHA SATYA NIKHIL	✓	×	✓	✓	✓	✓
33.	18811A0436	YERRA ANUSHA	✓	✓	✓	✓	✓	✓
34.	18811A0437	SAKA SHEEBHA ANNAVAJRAM	✓	✓	✓	✓	✓	✓
35.	18811A0438	DONDA ANUSHA	✓	✓	✓	✓	✓	✓
36.	19815A0401	BODDU PRASANNA GOWRI	✓	✓	✓	✓	✓	✓
37.	19815A0402	BONDA BALA BHASKAR	✓	✓	✓	✓	✓	✓
38.	19815A0403	CHANDANADA DURGA RAO	✓	✓	✓	✓	✓	✓
39.	19815A0404	CHINTAMREDDI SATYA	✓	✓	✓	✓	✓	✓
40.	19815A0405	CHITIKELA SAI BALAJI	✓	✓	✓	✓	✓	✓
41.	19815A0406	DEVAVARAPU JAYASREE	✓	✓	✓	✓	✓	✓
42.	19815A0407	GADE SAI KUMAR	✓	✓	✓	✓	✓	✓
43.	19815A0408	GANDEPALLI AJAY	✓	✓	✓	✓	✓	✓
44.	19815A0409	GATEREDDI HEMALATHA	✓	✓	✓	✓	✓	✓
45.	19815A0410	GOLLAVILLI DEVI	✓	✓	✓	✓	✓	✓
46.	19815A0411	GUNDUMALLA SATYA HEMALATHA	✓	✓	✓	✓	✓	✓
47.	19815A0413	KOLAGANI TIRUMALA	✓	✓	✓	✓	✓	✓
48.	19815A0414	KORUPROLU SRINIVASARAO	✓	✓	✓	✓	✓	✓
49.	19815A0415	MADDU GRISHMA GAYATHRI	✓	✓	✓	✓	✓	✓
50.	19815A0416	MONGAM MAMATHA LAKSHMI	✓	✓	✓	✓	✓	✓
51.	19815A0417	NUNNA KARUNYA	✓	✓	✓	✓	✓	✓
52.	19815A0418	PEDISETTI SREE SAI SWAPNA	✓	✓	✓	✓	✓	✓
53.	19815A0419	POLUMURI AJAY	✓	✓	✓	✓	✓	✓
54.	19815A0420	RAMOJU SAI SHANKAR	✓	✓	✓	✓	✓	✓
55.	19815A0421	RONGALA CHANDRA LEKHA	✓	✓	✓	✓	✓	✓
56.	19815A0422	RONGALA UMA	✓	✓	✓	✓	✓	✓
57.	19815A0424	UPPARAPALLI MALATHI	✓	✓	✓	✓	✓	✓
58.	19815A0425	VANAPALLI DEVENDRA HARIHARA NOOKESH	✓	✓	✓	✓	✓	✓
59.	19815A0426	VEGI RAJYA LASKHMI SAI	✓	✓	✓	✓	✓	✓
60.	19815A0430	YELISETTI JAYAPRAKASH	✓	✓	✓	✓	✓	✓
61.	19815A0431	MURDA TULASI	✓	✓	✓	✓	✓	✓
62.	19815A0432	CHINTAKAYALA RAMANA	✓	✓	✓	✓	✓	✓

63.	21811A0401	AMMU YERNI SANTOSH SAI SAMPATH SASTRY	✓	✓	✓	✓	✓	✓
64.	21811A0402	ANIMIREDDY KUSUMA	✓	✓	✓	✓	✓	✓
65.	21811A0406	ADHIKARI DURGA PRASAD	✓	✓	✓	✓	✓	✓
66.	21811A0407	BANDARU ARJUNARAO	X	✓	✓	✓	✓	✓
67.	21811A0408	BANKA PAVAN	✓	✓	✓	✓	✓	✓
68.	21811A0409	RUTHALA. SURESH	✓	✓	✓	✓	✓	✓
69.	21811A0411	BHEEMIREDDY KRANTHI	✓	✓	✓	✓	✓	✓
70.	21811A0412	BODDEDA GEETHA PRIYA	✓	✓	✓	✓	✓	✓
71.	21811A0413	BODDEDA LAVANYA	✓	✓	✓	✓	✓	✓
72.	21811A0414	BODDU MOUNIKA	✓	✓	✓	✓	✓	✓
73.	21811A0415	CHAPPIDI KAVYA	✓	✓	✓	✓	✓	✓
74.	21811A0416	CHAVVAKULA DURGABHAVANI	✓	✓	✓	✓	✓	✓
75.	21811A0417	DODDIMOHANSAI	✓	✓	✓	✓	✓	✓
76.	21811A0418	EPPILI NARENDRA	✓	✓	✓	✓	✓	✓
77.	21811A0419	GALI RAJESH	✓	✓	✓	✓	✓	✓
78.	21811A0421	GANTROTULA MANIKANTA	✓	✓	✓	✓	✓	✓
79.	21811A0422	GATREDDI KOMAL KARTHEEK	✓	✓	✓	✓	✓	✓
80.	21811A0423	GEMBALI CHANDANA	✓	✓	✓	✓	✓	✓
81.	21811A0424	GOLLU MANIKANTA	✓	✓	✓	✓	✓	✓
82.	21811A0425	GORLI SAILAJA	✓	✓	✓	✓	✓	✓
83.	21811A0426	GUNDA SAI SATHWIKI	✓	✓	✓	✓	✓	✓
84.	21811A0427	GUNTUPALLI VIJAYENDRA SARMA	✓	✓	✓	✓	✓	✓
85.	21811A0428	GUTTI NEHARIKA	✓	✓	✓	✓	✓	✓
86.	21811A0429	INDUKURI PRANATHI	✓	✓	✓	✓	✓	✓
87.	21811A0430	JAKKILINKI SAI PRASANTHI	✓	✓	✓	✓	✓	✓
88.	21811A0431	KADHA KIRAN SANTOSH	✓	✓	✓	✓	✓	✓
89.	21811A0432	KANDREGULA JASWANTH KUMA	✓	✓	✓	✓	✓	✓
90.	21811A0433	KANNURU RAJESH	✓	✓	✓	✓	✓	✓
91.	21811A0434	KARANAM HARIKA	✓	✓	✓	✓	✓	✓
92.	21811A0435	KARRI AJAY	✓	✓	✓	✓	✓	✓
93.	21811A0436	KODIGUDLA GUNASEKHAR	✓	✓	✓	✓	✓	✓
94.	21811A0437	KODIGUDLA KUSUMA KUMARI	✓	✓	✓	✓	✓	✓
95.	21811A0439	KONA NEHA KUMARI	✓	✓	✓	✓	✓	✓
96.	21811A0440	KOTHURU UDAY MOHAN	✓	✓	✓	✓	✓	✓
97.	21811A0441	KUNCHA GANESH	✓	✓	✓	✓	✓	✓
98.	21811A0442	LAM SREENU BASHA	✓	✓	✓	✓	✓	✓

99.	21811A0444	MARADANA HARISH	✓	✓	✓	✓	✓	✓
100.	21811A0445	NANGINA MAHA SANTHOSHI	✓	✓	✓	✓	✓	✓
101.	21811A0446	PAGADALA NAVEEN	✓	✓	✓	✓	✓	✓
102.	21811A0447	PALAKURTHI RAJA	✓	✓	✓	✓	✓	✓
103.	21811A0448	PALLA SRI LAKSHMAN	✓	✓	✗	✓	✓	✓
104.	21811A0449	PALLA SRIRAM	✓	✓	✓	✓	✓	✓
105.	21811A0450	PANGA TANUJA	✓	✓	✓	✓	✓	✓
106.	21811A0451	P.SRINIVAS	✓	✓	✓	✓	✓	✓
107.	21811A0452	THANUJA.P	✓	✓	✓	✓	✓	✓
108.	21811A0453	P.APARNA	✓	✓	✓	✓	✓	✗
109.	21811A0454	ANUSHA .R	✓	✓	✓	✓	✓	✓
110.	21811A0455	R. KARUNKUMAR	✓	✓	✓	✓	✓	✓
111.	21811A0456	SALAPU SHASHANK SHANMUKHA BALAJI	✓	✓	✓	✓	✓	✓
112.	21811A0457	SHEIK SADIYA ANZUM	✓	✓	✓	✓	✓	✓
113.	21811A0458	S.N.D.HARIKA	✓	✓	✓	✓	✓	✓
114.	21811A0459	S. CHAITANYA SAI	✓	✓	✓	✓	✓	✓
115.	21811A0460	T.PAVAN	✓	✓	✓	✓	✓	✓
116.	21811A0461	T. VANAJA	✓	✓	✓	✓	✓	✓
117.	21811A0462	T.SIMHADRI	✓	✓	✓	✓	✓	✓

Maha
Coordinator

[Signature]
HOD

HEAD OF THE DEPARTMENT
DEPARTMENT OF ECE
Avanthi Institute of Engg.&Tech.
Makavarapalem, Visakhapatnam Dist-53-101



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Tamaram, Makavarapalem, Narsipatnam (RD), Visakhapatnam-531113

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

A Course on

Dielectric Resonator Antennas

Dated :-21/03/2022




Coordinator


Head of the Department

HEAD OF THE DEPARTMENT
DEPARTMENT OF ECE
Avanathi Institute of Engg. & Tech.
Makavarapalem, Visakhapatnam Dist-531 113.



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Tamaram, Makavarapalem, Narsipatnam (RD), Visakhapatnam-531113

Department of Electronics and Communication Engineering

Dt:30/03/2022

BRIEF REPORT

Avanathi Institute of Engineering and Technology had conducted a certification course on "Dielectric Resonator Antennas" From 21st March 2022 to 26th March 2022 in the Department of electronics and communication Engineering.

We had **Dr.K.Chandra Bhushana Rao, Professor, Department of Electronics and Communication Engineering, JNTU-GV College of Engineering, Dwarapudi, Vizianagaram** as a speaker to explain each and every detail about recent developments in millimeter-wave DRA technology have been presented and discussed. Different feeding techniques for DRAs have been first introduced.

Dr. M.Rajan Balu, Professor, Department of ECE, Lendi institute of engineering and technology, Vizianagaram finally explained advances in the application of DRA technology at millimeter-wave frequencies have been presented, and the most recent implementation of on-chip DRAs and off-chip DRAs has been reviewed.


Coordinator


Head of the Department

HEAD OF THE DEPARTMENT
DEPARTMENT OF ECE
Avanathi Institute of Engg. & Tech.
Makavarapalem, Visakhapatnam Dist-531 113.



AVANTHI

INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Tamaram, Makavarapalem, Narsipatnam (RD), Visakhapatnam-53111

Certificate of Participation

This is to certify that Mr./Ms. _____ of _____ has participated in the Certificate Course entitled on **Dielectric Resonator Antennas** conducted from 21-03-2022 to 26-03-2022 was organized by the Department of ELECTRONICS AND COMMUNICATION ENGINEERING at Avanathi Institute of Engineering and Technology.

Coordinator

HOD

Principal