Remedial Classes 2023-24

Department of

Electronics and Communications Engineering

GOKARAJU RANGARAJU
INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Autonomous)

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GRIET/PRIN/12A/G/23-24 2nd JAN 2024

GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING & TECHNOLOGY

REMEDIAL CLASSES 2023-24

CIRCULAR

FINISHING SCHOOL

This is to inform you all that Remedial Classes will be held for academically weak students from 2 Jan 2024

From Dean,

Finishing school GRIET. 2nd JAN 2024

To
The HOD ECE GRIET

Sub: Request for faculty and Class rooms to conduct Remedial classes.

Sir/Madam,

This is to inform you that Finishing school of GRIET is conducting Remedial classes to Selective students of B.Tech III /II year students who are slow learners.To conduct the classes in offline mode. We Request you to nominate faculty to teach the following courses.

Remedial Classes Schedule for III/II Year-II Semester, 2023-2024.

S.No	Year	Course title	No.of Students	Name of the faculty	Signature
1	III	Antennas and Wave propagation	26	B Shilpa	
2	II	Analog and Digital Communications	33	Dr G Mamatha	

Dean, Finishing School

Gokaraju Rangaraju Institute of Engineering and Technology

Finishing School

Remedial Classes Schedule (for II,III)

Phase-I (Timings: 3.00-4.00)

AWP	ECE	2/1/2024 (2308)	3/1 /2024 (2308)	5/1/2024 (2308)	6/1/2024 (2308)
ADC	ECE	2/1/2024 (2308)	3/1 /2024 (2308)	5/1/2024 (2308)	6/1/2024 (2308)

Dean, Finishing School

List of students STATUS in Antennas and wave Propagation					
S.NO	Roll Number	Year Sem	Subject Code	Subject name	**P/F**
1	20241A4D0	320	GR20A3019	Antennas and wave Propagation	P
2	20241A04D9	320	GR20A3019	Antennas and wave Propagation	P
3	20241A089	320	GR20A3019	Antennas and wave Propagation	P
4	20241A0449	320	GR20A3019	Antennas and wave Propagation	F
5	20241A04G1	320	GR20A3019	Antennas and wave Propagation	F
6	20241A04R8	320	GR20A3019	Antennas and wave Propagation	P
7	20241A04S3	320	GR20A3019	Antennas and wave Propagation	F
8	20241A0426	320	GR20A3019	Antennas and wave Propagation	P
8	20241A04L1	320	GR20A3019	Antennas and wave Propagation	P
10	20241A04O1	320	GR20A3019	Antennas and wave Propagation	F
11	20241A04B6	320	GR20A3019	Antennas and wave Propagation	P
12	20241A04J7	320	GR20A3019	Antennas and wave Propagation	F
13	20241A0406	320	GR20A3019	Antennas and wave Propagation	P
14	20241A04R2	320	GR20A3019	Antennas and wave Propagation	F
15	20241A0427	320	GR20A3019	Antennas and wave Propagation	F
16	20241A04F4	320	GR20A3019	Antennas and wave Propagation	P
17	20241A04T0	320	GR20A3019	Antennas and wave Propagation	F
18	20241A0419	320	GR20A3019	Antennas and wave Propagation	P
19	20241A0405	320	GR20A3019	Antennas and wave Propagation	P
20	20241A0424	320	GR20A3019	Antennas and wave Propagation	P
20	20241A04E1	320	GR20A3019	Antennas and wave Propagation	F
22	20241A04G8	320	GR20A3019	Antennas and wave Propagation	F
23	20241A04H9	320	GR20A3019	Antennas and wave Propagation	F
24	20241A04L4	320	GR20A3019	Antennas and wave Propagation	F
25	20241A04A3	320	GR20A3019	Antennas and wave Propagation	P
26	20241A04A1	320	GR20A3019	Antennas and wave Propagation	F

List of students STATUS in **Analog and Digital Communications**					
S.NO	Roll Number	Year Sem	Subject Code	Subject name	**P/F**
1	20241A0406	II-II	GR20A2062	Analog and Digital Communications	F
2	20241A0422	II-II	GR20A2062	Analog and Digital Communications	P
3	20241A0424	II-II	GR20A2062	Analog and Digital Communications	F
4	20241A0426	II-II	GR20A2062	Analog and Digital Communications	F
5	20241A0427	II-II	GR20A2062	Analog and Digital Communications	F
6	20241A0449	II-II	GR20A2062	Analog and Digital Communications	F
7	20241A0468	II-II	GR20A2062	Analog and Digital Communications	P
8	20241A0489	II-II	GR20A2062	Analog and Digital Communications	F
8	20241A04A3	II-II	GR20A2062	Analog and Digital Communications	P
10	20241A04F4	II-II	GR20A2062	Analog and Digital Communications	P
11	20241A04G1	II-II	GR20A2062	Analog and Digital Communications	P
12	20241A04H1	II-II	GR20A2062	Analog and Digital Communications	P
13	20241A04H9	II-II	GR20A2062	Analog and Digital Communications	P
14	20241A04O1	II-II	GR20A2062	Analog and Digital Communications	P
15	21241A0446	II-II	GR20A2062	Analog and Digital Communications	P
16	21241A0457	II-II	GR20A2062	Analog and Digital Communications	P
17	21241A0477	II-II	GR20A2062	Analog and Digital Communications	P
18	21241A0485	II-II	GR20A2062	Analog and Digital Communications	P
19	21241A0489	II-II	GR20A2062	Analog and Digital Communications	F
20	21241A0495	II-II	GR20A2062	Analog and Digital Communications	P
20	21241A0499	II-II	GR20A2062	Analog and Digital Communications	P
22	21241A04A6	II-II	GR20A2062	Analog and Digital Communications	P
23	21241A04B3	II-II	GR20A2062	Analog and Digital Communications	P
24	21241A04B7	II-II	GR20A2062	Analog and Digital Communications	P
25	21241A04C3	II-II	GR20A2062	Analog and Digital Communications	P
26	21241A04C9	II-II	GR20A2062	Analog and Digital Communications	P
27	21241A04D9	II-II	GR20A2062	Analog and Digital Communications	P
28	21241A04E6	II-II	GR20A2062	Analog and Digital Communications	P
29	21241A04G0	II-II	GR20A2062	Analog and Digital Communications	F
30	21241A04H4	II-II	GR20A2062	Analog and Digital Communications	P
31	21241A04J2	II-II	GR20A2062	Analog and Digital Communications	F
32	21241A04J9	II-II	GR20A2062	Analog and Digital Communications	P
33	21241A04K2	II-II	GR20A2062	Analog and Digital Communications	P

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III Year-II Semester, 2023-2024 Subject: Antennas and wave Propagation

#	Roll Number	2/01/24	3/1/24	5/1/24	6/1/24
1	20241A4D0	A	A	P	P
2	20241A04D9	P	P	A	A
3	20241A089	P	P	P	P
4	20241A0449	P	P	P	P
5	20241A04G1	P	P	A	P
6	20241A04R8	P	P	P	P
7	20241A04S3	P	P	P	P
8	20241A0426	A	P	P	P
9	20241A04L1	P	P	P	P
10	20241A04O1	A	P	P	P
11	20241A04B6	P	P	P	A
12	20241A04J7	P	A	A	A
13	20241A0406	P	P	P	P
14	20241A04R2	P	A	A	A
15	20241A0427	P	P	P	P
16	20241A04F4	P	P	P	P
17	20241A04T0	P	P	P	P
18	20241A0419	P	P	P	P
19	20241A0405	P	P	P	A
20	20241A0424	P	P	P	P
20	20241A04E1	P	A	A	A
22	20241A04G8	P	P	P	P
23	20241A04H9	P	P	P	P
24	20241A04L4	P	P	P	P
25	20241A04A3	P	A	A	A
26	20241A04A1	P	P	P	P

GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING & TECHNOLOGY

II Year-II Semester, 2023-2024 Subject: Analog and Digital Communications

#	Roll Number	3/01/24	4/1/24	5/1/24	6/1/24
1	20241A0406	P	P	P	P
2	20241A0422	P	P	P	P
3	20241A0424	P	A	P	P
4	20241A0426	P	P	P	P
5	20241A0427	P	P	P	P
6	20241A0449	P	P	P	P
7	20241A0468	P	A	P	P
8	20241A0489	P	P	A	P
9	20241A04A3	P	P	P	P
10	20241A04F4	P	P	P	P
11	20241A04G1	P	P	P	P
12	20241A04H1	A	P	P	P
13	20241A04H9	P	A	P	P
14	20241A04O1	P	P	P	P
15	21241A0446	P	P	P	P
16	21241A0457	P	P	P	P
17	21241A0477	P	P	P	P
18	21241A0485	P	P	P	P
19	21241A0489	P	P	A	P
20	21241A0495	P	P	P	P
20	21241A0499	P	P	P	P
22	21241A04A6	P	P	P	P
23	21241A04B3	P	P	P	P
24	21241A04B7	P	P	P	P
25	21241A04C3	P	P	A	P
26	21241A04C9	P	P	P	P
27	21241A04D9	A	P	P	P
28	21241A04E6	P	P	A	P
29	21241A04G0	P	P	P	P
30	21241A04H4	P	P	P	A
31	21241A04J2	P	P	P	P
32	21241A04J9	P	A	P	P
33	21241A04K2	P	P	A	P

GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING & TECHNOLOGY

FINISHING SCHOOL

REMEDIAL CLASSES (Academic support for students) Student Feed Back

Branch: ECE Year:III/II Sem: II

Subject: AWP/ADC Faculty Name: B Shilpa/ Dr G Mamatha

S.No	Item	Feedback
1	Material presented	✓Excellent/Very Good/Good/Average/Below Average
2	Teaching Clarity	✓Excellent/Very Good/Good/Average/Below Average
3	Covering of important topics	Excellent/□Very Good/Good/Average/Below Average
4	Doubts clarification	Excellent/□Very Good/Good/Average/Below Average

Suggestions:

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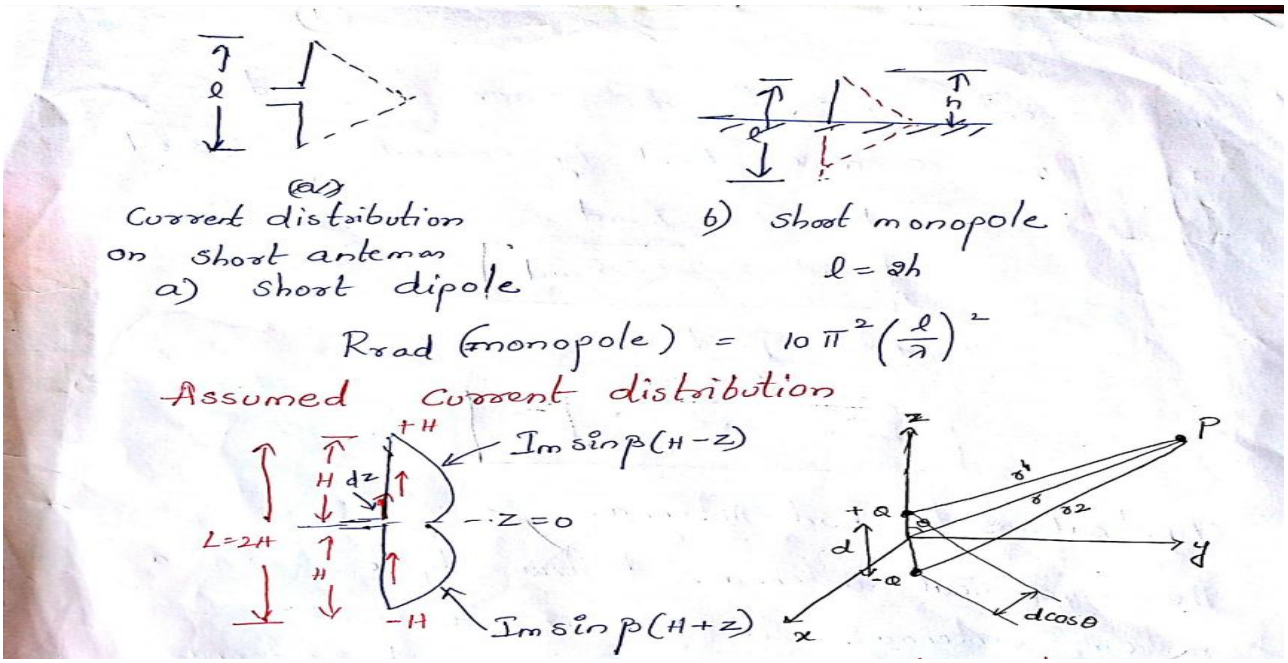
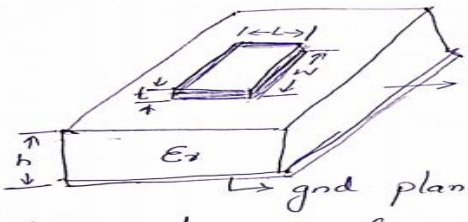

ℓ
h
(a)
Current distribution
on short antenna
a) Short dipole
b) Short monopole
ℓ = 2h
Rrad (monopole) = 10π²(ℓ/λ)²
Assumed current distribution
+H
Im sinβ(H−z)
H
dz
z=0
L=2H
−H
Im sinβ(H+z)
z
P
r
r1
r2
+Q
θ
d
−Q
y
x
dcosθ

Microstrip Antennas
(patch Antenna)

A microstrip antenna consists of a radiating metal patch on one side of a dielectric substrate which has a ground plane on other side.

It is a kind of internal antenna.



The patch is made up of conducting material such as copper (or) gold.

It is available in any shape

The radiating patch and the feed lines are photo-etched on the dielectric substrate.

Faculty Report on Subject

Subject: ANTENNAS AND WAVE PROPAGATION

Unit1. Introduction: Radiation Mechanism, Current Distribution on a Thin Wire Antenna, Fundamental Parameters of Antennas:

UNIT II –Hertzian dipole, Linear antennas and Basics of Arrays

UNIT III - Special Antennas

UNIT IV-Reflectors and Patch Antennas

UNIT V – Wave Propagation

Ground Wave Propagation,Space and Surface Waves, Sky Wave Propagation

II. Previous question papers

III. Notes or PPTs

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Faculty Report on Subject

Subject: ADC

Unit-1: Theory, Modulator, Demodulator block diagrams and Noise effect of AM,DSBSC,SSB,VSB

Unit-2: Theory, Modulator, Demodulator block diagrams and Noise effect on FM

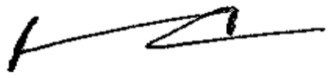
Unit-3: Pulse communication types PAM, PWM,PPM modulator and Demodulator block diagrams. Digital modulation -PCM, DM,ADM modulator and Demodulator block diagrams.

Unit-4: Keying techniques, Transmission and Reception

Unit-5: Spread Spectrum types DSSS and FSSS, applications ,PN sequence

II. Previous question papers

III. Notes or PPTs



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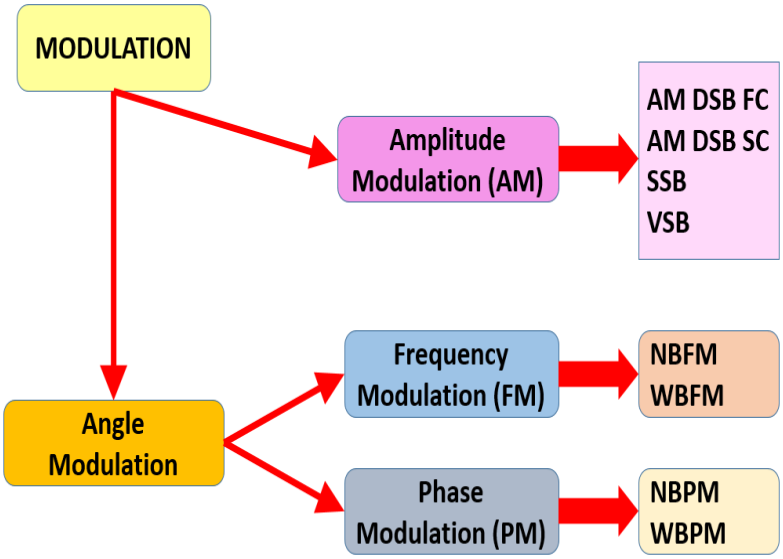
Amplitude Modulation

By
Dr. G. Mamatha
Professor, Dept. of ECE

Gokaraju Rangaraju Institute of Engineering & Technology (Autonomous)

Types of Modulation



Report on Remedial Classes

This is to inform you that Finishing school of GRIET is conducting Remedial classes for B.Tech II year,III year students to clear their backlogs.

Details are

1. Remedial classes are conducted in different Subjects to support the Students in clearing their backlogs. As the first step, classes are held for Final year and Marched out batches in three different schedules. Students were informed through SMS. Students shown lot of interest .Faculty gave tips as well as material for the students.80-90% of the students who have attended got benefit and they passed in the exams.

2. The classes are aimed to help the students having a maximum of three backlogs so that they will get the degree as per their academic calendar. Students preferred material and few tips as they were busy in Projects. For some subjects they came and attentive.
3. The sessions for III students are to prevent failure rate and thereby increasing transition rate. The subjects are selected based on I-semester results. To increase attendance for the classes a brief motivation lecture is organized with the key note address by HOD.

The following shows the courses for which Remedial classes are held and the Transition rate in such course:

S.No	Course	No.of students attended	No.of students passed	Transition rate
1.	AWP	26	18	69
2	ADC	33	24	72