



# Remedial Classes 2021-22

Department of Electronics and Communications Engineering

**GOKARAJU RANGARAJU**  
**INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
(Autonomous)



# GRIET

## Remedial School

To support the weak students, RS has conducted remedial classes in four phases in the a.y 2021-22. This includes 2 phases of I – year subjects and 2 phases of core subjects. In this document, details of phase2 and phase 3 which are of ECE department are given.



**Gokaraju Rangaraju Institute of Engineering and Technology**  
**Electronic Communication Engineering**  
**Remedial Classes**  
**A.Y.2021-22**

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GRIET/PRIN/12A/G/21-22

12<sup>th</sup> Nov 2021

**GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING & TECHNOLOGY**

**REMEDIAL CLASSES 2021-22**

**CIRCULAR**

**FINISHING SCHOOL**

This is to inform you all that Remedial Classes will be held for academically weak students from NOV to DEC 2021. List of students and time tables are send to individual departments.

Dean Finishing School

-

10<sup>th</sup> NOV 2021

From  
Dean,  
Finishing school  
GRIET.

To  
The HOD  
EEE  
GRIET

**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 for B.Tech II year students to clear of Sem-II.

To conduct the classes we request you

- 1) Permit us to use 2 online classes from 3PM -4PM from 15<sup>th</sup> NOV 2021 to 18<sup>th</sup> NOV 2021
- 2) Nominate faculty to teach the following courses:

S.No	YEAR	Course title	No. of Students	Name of the faculty
1	II-II	Analog and Digital Communication(G R20A2062)	53	P.Sriram



Thanking you  
Yours Sincerely,  
Dr V N Ramadevi

# Gokaraju Rangaraju Institute of Engineering and Technology

## Remedial School

### Remedial Classes Schedule

**15 November2021 to 18 November2021**

### Phase II

**Timing: 3.00-4.30pm**



1

S. No	Course title	Department	Name of the faculty	Dates			
				15-11-2021	16-11-2021	17-11-2021	18-11-2021
1	Differential Equations and Vector Calculus	H&S	G.Revathi	15-11-2021	16-11-2021	17-11-2021	18-11-2021
2	Computer Networks	CSE	G.Anil Kumar	15-11-2021	16-11-2021	17-11-2021	18-11-2021
3	Transportation Engineering	CE	T.Srikanth	15-11-2021	16-11-2021	17-11-2021	18-11-2021
4	ADC	ECE	P.Sriram	15-11-2021	16-11-2021	17-11-2021	18-11-2021
5	Control systems	EEE	D.Karuna Kumar	15-11-2021	16-11-2021	17-11-2021	18-11-2021
6	Computer Organization	IT	K.Ravikiran	11-11-2021	15-11-2021	17-11-2021	18-11-2021



## Gokaraju Rangaraju Institute of Engineering and Technology

#	Roll.Num	15-11-2021	16-11-2021	17-11-2021	18-11-2021	Result
1	20241A0403	P	P	P	P	P
2	20241A0404	P	P	P	p	P
3	20241A0405	P	P	P	P	F
4	20241A0406	A	P	P	P	F
5	20241A0412	P	P	P	P	P
6	20241A0413	P	P	P	P	P
7	20241A0414	P	P	P	P	P
8	20241A0417	P	P	P	P	P
9	20241A0418	P	P	P	P	P
10	20241A0419	P	P	P	P	P
11	20241A0423	P	P	P	P	P
12	20241A0464	P	P	P	P	P
13	20241A0465	P	P	P	P	P
14	20241A0475	P	P	P	P	P
15	20241A0476	P	P	P	P	P
16	20241A0477	P	P	P	P	P
17	20241A0478	P	P	P	P	P
18	20241A0479	P	P	P	P	P
19	20241A0480	P	P	P	P	P
20	20241A0485	P	P	P	P	P
21	20241A0486	P	P	P	P	P
22	20241A0488	A	P	P	P	F
23	20241A0489	A	A	P	P	F
24	20241A0497	P	P	P	P	P
25	20241A0498	P	P	P	P	P
26	20241A04B3	P	P	P	P	P
27	20241A04B4	P	P	P	P	P
28	20241A04B5	P	P	P	P	P
29	20241A04B8	A	A	P	P	F
30	20241A04B9	P	P	P	P	P
31	20241A04C0	P	P	P	P	P
32	20241A04C7	P	P	P	P	P
33	20241A04C8	P	P	P	P	P
34	20241A04D7	P	P	P	P	P
35	20241A04D8	P	P	P	P	P
36	20241A04D9	P	P	P	P	P
37	20241A04E0	P	P	P	P	P
38	20241A04H0	P	P	P	P	F
39	20241A04H1	A	P	P	P	F
40	20241A04H9	A	P	P	A	F
41	20241A04J0	P	P	P	P	P
42	20241A04J1	P	P	P	P	P
43	20241A04J3	P	P	P	P	F
44	20241A04L4	A	A	P	P	F

45	20241A04P0	P	P	P	P	P
46	20241A04P1	P	P	P	P	P
47	20241A04R2	P	P	A	A	F
48	20241A04R8	A	A	A	P	F
49	20241A04T0	P	P	A	A	F
50	20241A04T1	P	P	P	P	F
51	21245A0402	P	P	P	P	P
52	21245A0410	P	P	P	P	P
53	21245A0416	P	P	P	P	P





**GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING & TECHNOLOGY**

**FINISHING SCHOOL**

**REMEDIAL CLASSES (Academic support for students) Student Feed Back**

Branch: ECE Year: II Sem: II  
Subject: Analog and Digital Communication Faculty Name: P.Sriram

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:

*V N Ramakrishna*

Dean Finishing School



**GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING & TECHNOLOGY**

**FINISHING SCHOOL**

**REMEDIAL CLASSES (Academic support for students) Student Feed Back**

Branch: ECE Year: II Sem: II  
Subject: Analog and Digital Communication Faculty Name: P.Sriram

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3	Covering of important topics	Excellent/✓Very Good/Good/Average/Below Average
4	Doubts clarification	✓Excellent/Very Good/Good/Average/Below Average

Suggestions:

*V N Ramaswami*

Dean Finishing School



**GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING & TECHNOLOGY**

**FINISHING SCHOOL**

**REMEDIAL CLASSES (Academic support for students) Student Feed Back**

Branch: ECE Year: II Sem: II  
Subject Analog and Digital Communication Faculty Name: P.Sriram

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:

*V N Ramakrishna*

Dean Finishing School



**Gokaraju Rangaraju Institute of Engineering and  
Technology**  
**Electrical and Electronics Engineering**  
**Remedial Classes Report**  
**II B.Tech II Sem**

Faculty Report on Subject

Subject: ADC

Unit1. Theory, Modulator, Demodulator block diagrams and Noise effect of AM,DSBSC,SSB,VSB

Unit2. Theory, Modulator, Demodulator block diagrams and Noise effect on FM

Unit3. Pulse communication types PAM,PWM,PPM modulator and Demodulator block diagrams. Digital modulation -PCM,DM,ADM modulator and Demodulator block diagrams.

Unit4. Keying techniques, Transmission and Reception

Unit5. Spread Spectrum types DSSS and FSSS , applications,PN sequence

II. Previous question papers

III. Notes or PPTs



## Report on Remedial Classes

This is to inform you that Finishing school of GRIET is conducting Remedial classes for B.Tech II 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 II & III-year 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.	Analog and Digital Communication	53	40	75

From

Dean,  
Finishing school  
GRIET.

19<sup>th</sup> Jan 2022

To  
The HOD  
EEE  
GRIET


**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 for B.Tech II year students to clear their Subjects of Sem-I.

To conduct the classes we request you

- 1) Permit us to use 2 online classes from 3.30PM -4.30PM from 21<sup>st</sup> January 2022 to 31<sup>st</sup> January 2022
- 2) Nominate faculty to teach the following courses:

S.No	YEAR	Course title	No. of Students	Name of the faculty	Signature of the faculty
1	II-I	PTSP (GR20A2023)	60	Dr.V.Hima Bindu	



Thanking you  
Yours Sincerely,  
Dr V N Ramadevi



**Gokaraju Rangaraju Institute of Engineering and Technology**  
**Electronic Communication Engineering**  
**Finishing School**  
**Remedial Classes Schedule**  
**Phase-III**  
**27<sup>th</sup> JAN 2022 to 31<sup>st</sup> JAN 2022**  
**II B.Tech I Sem**

S.No	Subject	Year	Name of the Faculty	Session-1	Session-2	Session-3	Session-4
1	PTSP (GR20A2055)	II-I	Dr. V.Hima Bindu	27/01/2022 (3.30 to 4.30)	28/01/2022 (3.30 to 4.30)	29/01/2022 (3.30 to 4.30)	31/01/2022 (3.30 to 4.30)

HOD-ECE

*Rama Devi*

*DEAN-RS*

(Faculty Coordinator)





## Gokaraju Rangaraju Institute of Engineering and Technology

### Electronic Communication Engineering

List of students attended for remedial classes and Result								
#	Roll.No	27/01/2022	28/01/2022	29/01/2022	31/01/2022	1/2/2022	2/2/2022	Result
1	20241A0403	A	P	P	P	P	P	P
2	20241A0404	P	P	P	P	P	P	P
3	20241A0405	A	A	A	P	P	P	F
4	20241A0412	P	P	P	P	P	P	P
5	20241A0418	P	P	P	P	A	P	P
6	20241A0419	P	P	P	P	P	P	P
7	20241A0422	P	P	A	A	A	A	F
8	20241A0427	A	P	A	A	A	P	F
9	20241A0430	P	P	P	P	P	P	P
10	20241A0431	P	P	P	P	P	P	P
11	20241A0432	P	P	P	P	P	P	P
12	20241A0446	P	P	P	P	P	P	P
13	20241A0447	P	P	P	P	P	P	P
14	20241A0448	P	P	P	P	P	P	P
15	20241A0450	A	P	P	P	P	A	F
16	20241A0451	P	A	A	A	A	P	F
17	20241A0454	P	P	P	P	P	P	P
18	20241A0455	P	P	A	P	P	P	P
19	20241A0475	P	P	P	P	P	P	P
20	20241A0476	P	P	P	P	P	P	P
21	20241A0477	P	P	P	P	P	P	P
22	20241A0489	P	P	P	P	A	P	P
23	20241A0490	P	P	a	P	P	P	P
24	20241A0491	P	P	P	P	P	P	P
25	20241A04A3	A	P	P	A	A	P	F
26	20241A04A5	P	P	P	P	P	P	P
27	20241A04A6	P	P	P	P	P	P	P
28	20241A04A7	P	P	P	A	P	P	P
29	20241A04A8	P	P	P	P	P	P	P
30	20241A04B9	P	P	P	P	P	P	P
31	20241A04C0	P	A	P	P	P	P	P
32	20241A04C4	P	P	P	P	P	P	P
33	20241A04C5	P	P	P	P	P	P	P
34	20241A04C6	P	P	P	P	P	P	P
35	20241A04G3	P	P	P	P	P	P	P
36	20241A04G4	P	P	P	P	P	P	P
37	20241A04H4	P	P	P	P	P	P	P
38	20241A04H5	P	P	P	P	P	P	P
39	20241A04I5	P	P	P	P	P	P	P
40	20241A04I6	P	P	P	P	P	P	P
41	20241A04J7	A	P	P	A	A	P	F
42	20241A04J8	P	P	P	P	P	P	P
43	20241A04J9	P	P	P	P	P	P	P

44	20241A04K4	P	P	P	P	P	P	P
45	20241A04K5	P	P	P	P	P	P	P
46	20241A04K6	P	P	P	P	P	P	P
47	20241A04K7	P	P	P	P	P	P	P
48	20241A04L4	A	P	P	P	P	P	F
49	20241A04M0	A	A	A	A	A	A	F
50	20241A04N5	A	P	P	P	A	A	F
51	20241A04N7	A	A	A	A	A	A	F
52	20241A04T2	P	P	P	P	P	P	P
53	20241A04T3	P	P	P	P	P	P	P
54	20241A04T5	A	A	P	A	A	A	F
55	21245A0412	P	P	P	P	P	P	P
56	21245A0413	P	P	P	A	P	P	P
57	21245A0427	P	P	P	P	P	P	P
58	21245A0428	P	P	P	A	P	P	P
59	21245A0429	P	P	P	P	P	P	P
60	21245A0430	P	P	P	P	P	P	P



**GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING & TECHNOLOGY**

**FINISHING SCHOOL**

**REMEDIAL CLASSES (Academic support for students) Student Feed Back**

Branch: ECE

Year: II

Sem: I

Subject: PTSP

Faculty Name:

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:

*V N Ramadani*

Dean Finishing School



**GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING & TECHNOLOGY**

**FINISHING SCHOOL**

**REMEDIAL CLASSES (Academic support for students) Student Feed Back**

Branch: ECE                      Year: II                      Sem: II                      Subject: PTSP

Faculty Name: Dr.V.Hima Bindu

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:

*V N Ramakrishna*

Dean Finishing School



**GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING & TECHNOLOGY**

**FINISHING SCHOOL**

**REMEDIAL CLASSES (Academic support for students) Student Feed Back**

Branch: ECE

Year: II

Sem: I

Subject: PTSP

Faculty Name: Dr.V.Hima Bindu

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:

*V N Ramakrishna*

Dean Finishing School



**Gokaraju Rangaraju Institute of Engineering and  
Technology**  
**Electronic Communication Engineering**  
**Remedial Classes Report**  
**II B.Tech I Sem**

**Faculty Report on Subject**

Subject: PTSP

Unit1. Explained Probability and Random Variable

Unit2.Explained Probability of Single Random variable

Unit3. Explained Probability of Multiple Variable Random variable

Unit4. Explained Random Process.

Unit5. Explained Modeling of Noise.

II. Previous question papers

III. Notes or PPTs

## Functions of Random Signals (continuous)

- Expectation of discrete rv with pmf  $p_X(x)$ ,

$$E(X) = \bar{x} = \sum_{i=1}^n x_i p_X(x_i)$$

- Expectation of a continuous rv with pdf  $f(x)$

$$E(X) = \bar{x} = \int_{-\infty}^{\infty} x f(x)$$

- The expected value of a random variable is also called the **mean of the random variable**

Time avg.  $\frac{x_1 + x_2 + \dots + x_n}{n}$



## Report on Remedial Classes

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

Details are

4. 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.
5. 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.
6. The sessions for II & III-year 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.	PTSP (GR20A2023)	60	46	76