

Remedial Classes 2021-22

Department of Electrical and Electronics 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 phase 2 and phase 3 which are of EEE department are given.



Gokaraju Rangaraju Institute of Engineering and Technology Electrical and Electronics Engineering Remedial Classes A.Y.2021-22

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

12th 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 November to December 2021.List of students and time tables are send to individual departments.

V NoRamaDei

Dean Finishing School

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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 their backlogs of Sem-II.

To conduct the classes we request you

- 1) Permit us to use 2 online classes from 3PM -4PM from 15th November 2021 to 20th November 2021
- 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-II	Control Systems (GR18A2032)	21	Mr. D Karunakumar	Mr. D Karunakumar

Thanking you

Yours Sincerely,

Dr V N Ramadevi



Gokaraju Rangaraju Institute of Engineering and Technology Electrical and Electronics Engineering

Finishing School
Remedial Classes Schedule
15th November 2021 to 20th November 2021
II B.Tech II Sem

S.No	Subject	Year	Name of the Faculty	Session-1	Session-2	Session-3	Session-4	Session-5	Session-4
				15/11/2021	16/11/2021	17/11/2021	18/11/2021	19/11/2021	20/11/2021
1	Control Systems (GR18A2032)	II-II	Mr. D Karunakumar	(3.00 to 4.30)					

HA

HOD-EEE

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DEAN-RS



GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY CONTROL SYSTEMS

Course Code: GR18A2032 L/T/P/C: 3/0/0/3

II Year II Semester

Course Objectives:

- Outline of the fundamental concepts of Control Systems and block diagram algebra.
- Analyze time response of second order systems, stability and root locus technique.
- Interpret the stability of a system by Nyquist and Bode plots.
- Design the feedback Controller.
- Apply the concepts of Controllability and Observability and define a discrete time system and non linear system.

Course Outcomes:

- Understand the modelling of linear time-invariant systems using transfer function and apply block diagram algebra.
- Understand the concept of time response, stability and its assessment for linear time-invariant systems.
- Compare the Bode and Nyquist plot to determine the stability of a system.
- Determine the dynamic model of a system using state space approach.
- Design of PI,PD controllers and lead ,lag compensators

Unit I: INTRODUCTION TO CONTROL PROBLEM

Industrial Control examples. Mathematical models of physical systems. Control hardware and their models. Transfer function models of linear time-invariant systems.

Feedback Control: Open-Loop and Closed-loop systems. Benefits of Feedback. Block diagram algebra.

Unit II: TIME RESPONSE ANALYSIS

Standard test signals. Time response of first and second order systems for standard test inputs. Application of initial and final value theorem. Design specifications for second-order systems based on the time-response.

Concept of Stability. Routh-Hurwitz Criteria. Relative Stability analysis. Root-Locus technique. Construction of Root-loci.

Unit III: FREQUENCY RESPONSE ANALYSIS

Relationship between time and frequency response, Polar plots, Bode plots. Nyquist stability criterion. Relative stability using Nyquist criterion – gain and phase margin. Closed-loop frequency response.

Unit IV: INTRODUCTION TO CONTROLLER DESIGN

Stability, steady-state accuracy, transient accuracy, disturbance rejection, insensitivity and robustness of control systems.

Root-loci method of feedback controller design. Design specifications in frequency-domain. Frequency-domain methods of design. Application of Proportional, Integral and Derivative Controllers, Lead and Lag compensation in designs. Analog and Digital implementation of controllers.

UnitV: STATE VARIABLE ANALYSIS AND INTRODUCTION TO OPTIMAL CONTROL AND NONLINEAR CONTROL

Concepts of state variables. State space model. Diagonalization of State Matrix. Solution of state equations. Eigenvalues and Stability Analysis. Concept of controllability and observability.

Pole-placement by state feedback.

Discrete-time systems. Difference Equations. State-space models of linear discrete-time systems. Stability of linear discrete-time systems.

Performance Indices. Regulator problem, Tracking Problem. Nonlinear system-Basic concepts and analysis.

Text /Reference Books:

- 1. K. Ogata, "Modern Control Engineering", Prentice Hall, 1991.
- 2. B. C. Kuo, "Automatic Control System", Prentice Hall, 1995.
- 3. M. Gopal, "Control Systems: Principles and Design", McGraw Hill Education, 1997.
- 4. Control Systems by A. Anand Kumar, 2nd edition, PHI Learning Private Limited.
- 5. Control Systems Engineering by Nise 3rd Edition John Wiley.
- 6. I.J. Nagrath and M. Gopal, "Control Systems Engineering", New Age International, 2009.



Gokaraju Rangaraju Institute of Engineering and Technology Electrical and Electronics Engineering

Remedial Classes-A.Y=2020-21- Student Attendance List (P=Present & A=Absent)

Sl.No	Roll.No	Subject Code	Subject Name	15-11-2021	16-11-2021	17-11-2021	18-11-2021	19-11-2021	20-11-2021
1	17241A0231	GR18A2032	Control Systems	P	A	P	P	A	P
2	17241A0299	GR18A2032	Control Systems	A	P	A	A	P	P
3	18241A0202	GR18A2032	Control Systems	A	P	A	A	P	P
4	18241A0205	GR18A2032	Control Systems	P	P	A	P	P	P
5	18241A0205	GR18A2032	Control Systems	P	P	A	P	P	A
6	18241A0209	GR18A2032	Control Systems	P	P	A	P	P	A
7	18241A0220	GR18A2032	Control Systems	P	P	A	P	A	P
8	18241A0223	GR18A2032	Control Systems	P	A	A	A	P	P
9	18241A0244	GR18A2032	Control Systems	A	A	A	P	P	P
10	18241A0248	GR18A2032	Control Systems	P	P	A	P	P	P
11	18241A0254	GR18A2032	Control Systems	P	P	A	P	P	A
12	18241A0257	GR18A2032	Control Systems	P	P	A	P	P	A
13	18241A0260	GR18A2032	Control Systems	P	P	A	P	A	P
14	18241A0260	GR18A2032	Control Systems	P	A	A	A	A	P
15	18241A0262	GR18A2032	Control Systems	A	A	A	P	P	P
16	18241A0280	GR18A2032	Control Systems	A	P	A	P	P	P
17	18241A0288	GR18A2032	Control Systems	A	P	P	P	A	P
18	18241A0288	GR18A2032	Control Systems	A	P	P	A	A	P
19	18241A0288	GR18A2032	Control Systems	P	P	P	P	P	P
20	18241A0290	GR18A2032	Control Systems	P	P	P	P	P	A
21	18241A0290	GR18A2032	Control Systems	P	P	A	P	P	A



REMEDIAL CLASSES (Academic support for students) Student Feed Back

Branch: EEE Year: II Sem: II
Subject: Control Systems(CS) Faculty Name: Mr. D Karunakumar

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:

Dean Finishing School



REMEDIAL CLASSES (Academic support for students) Student Feed Back

Branch: EEE Year: II Sem: II

Subject: Control Systems(CS) Faculty Name: Mr. D Karunakumar

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
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Suggestions:

Dean Finishing School



REMEDIAL CLASSES (Academic support for students) Student Feed Back

Branch: EEE Year: II Sem: II

Subject: Control Systems(CS) Faculty Name: Mr. D Karunakumaer

S.No	Item	Feedback
1	Material presented	Excellent/ Very Good/Good/Average/Below Average
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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:

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: Control Systems

Unit-1: Discussed about Introduction to Control

Problem & Feedback Control

Unit-2: Explain about Analysis of Time response of first and second order systems & Concept of Stability

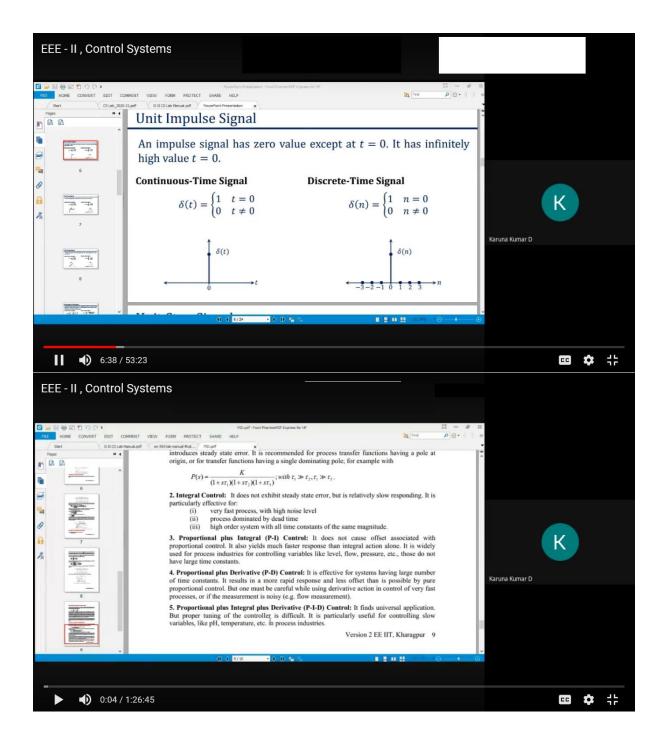
Unit-3: Discussed about Relationship between time and frequency response & Closed-loop frequency response.

Unit-4: Explain about Introduction to Controller Design & Root-loci method of feedback controller design

Unit-5: Discussed about State Variable Analysis and Introduction to Optimal Control And Nonlinear Control

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	No.of students	Transition rate
		attended	passed	
1.	Control Systems	17	16	94.12



Gokaraju Rangaraju Institute of Engineering and Technology

Electrical and Electronics Engineering

Remedial Classes

A.Y.2020-21

Sl.No	Roll.No	Subject Code	Subject Name	Result
51.110		•	ŭ	
1	17241A0231	GR18A2032	Control Systems	Pass
2	17241A0299	GR18A2032	Control Systems	Fail
3	18241A0202	GR18A2032	Control Systems	Pass
4	18241A0205	GR18A2032	Control Systems	Pass
5	18241A0209	GR18A2032	Control Systems	Pass
6	18241A0220	GR18A2032	Control Systems	Pass
7	18241A0223	GR18A2032	Control Systems	Pass
8	18241A0244	GR18A2032	Control Systems	Pass
9	18241A0248	GR18A2032	Control Systems	Pass
10	18241A0254	GR18A2032	Control Systems	Pass
11	18241A0257	GR18A2032	Control Systems	Pass
12	18241A0260	GR18A2032	Control Systems	Pass
13	18241A0262	GR18A2032	Control Systems	Pass
14	18241A0280	GR18A2032	Control Systems	Pass
15	18241A0288	GR18A2032	Control Systems	Pass
16	18241A0288	GR18A2032	Control Systems	Pass
17	18241A0290	GR18A2032	Control Systems	Pass



Remedial Classes 2021-22 (Phase -3)

Department of Electrical and Electronics Engineering

CONTRAID BANG TECHNOLOGY (Autonomous)



Gokaraju Rangaraju Institute of Engineering and Technology Electrical and Electronics Engineering Remedial Classes A.Y.2021-22

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

19th Jan 2022

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 January to February 2022. List of students and time tables are send to individual departments.

V Nohamadei

Dean Finishing School

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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 their backlogs of Sem-I.

To conduct the classes we request you

- 1) Permit us to use 2 online classes from 3.30PM -4.30PM from 21st January 2022 to 31st 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	Electrical Circuit Analysis (GR20A2023)	29	Mr. D Karunakumar	Mr. D Karunakumar
2	II-I	Electromagnetic Fields (GR20A2026)	31	Mr. P Praveen Kumar	Mr. P Praveen Kumar

V No Ramadii Thanking you

Yours Sincerely, Dr V N Ramadevi



Gokaraju Rangaraju Institute of Engineering and Technology Electrical and Electronics Engineering

Finishing School
Remedial Classes Schedule (ONLINE)
21st January 2022 to 31st January 2022
II B.Tech I Sem

S.No	Subject	Year	Name of the Faculty	Session-1	Session-2	Session-3	Session-4
1	Electrical Circuit Analysis (GR20A2023)	II-I	Mr. D Karunakumar	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)
2	Electromagnetic Fields (GR20A2026)	II-I	Mr. P Praveen Kumar	21/01/2022 (3.30 to 4.30)	22/01/2022 (3.30 to 4.30)	24/01/2022 (3.30 to 4.30)	25/01/2022 (3.30 to 4.30)

D. per on

HOD-EEE

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(Faculty Coordinator)

GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY ELECTRICAL CIRCUIT ANALYSIS

Course Code: GR20A2023 L/T/P/C :2/1/0/3

II Year I Semester

Course Objectives:

- 1. Explain the various properties of Fourier series and Fourier transforms.
- 2. Simplify the transient state analysis of a circuit.
- 3. Evaluate the steady state analysis(three-phase) and dot convention of a given circuit.
- 4. Apply the Laplace Transforms to electrical circuits.
- 5. Develop the network parameters of the circuits.

Course Outcomes:

- 1. Apply Fourier Series, network theorems for the analysis of electrical circuits.
- 2. Develop the transient response of electrical circuits.
- 3. Analyze three-phase and mutually coupled circuits.
- 4. Solve electrical circuits using Laplace and Inverse Laplace transform and mark poles and zeros.
- 5. Simplify network by two port parameters.

UNIT I

FOURIER SERIES AND FOURIER TRANSFORM

Representation of continuous-time periodic signals by Fourier series; Dirichlet's conditions; Properties of Fourier series, Parseval's theorem; Trigonometric and Exponential Fourier series; Complex Fourier spectrum; Fourier transform via Fourier series; Fourier transform of periodic and aperiodic signals; Convergence of Fourier transform; Properties of Fourier transforms, Parseval's theorem; Fourier transforms involving impulse function and Signum function; Introduction to Hilbert Transform.

UNIT II

NETWORK THEOREMS

Maximum Power Transfer theorem, Reciprocity theorem, Millman theorem, Compensation theorem, Telligence Theorem, Concept of duality and dual networks.

Solution of First and Second order networks

Solution of first and second order differential equations for Series and parallel RL, RC, RLC circuits, initial and final conditions in network elements, forced and free response, time constants, steady state and transient state response.

UNIT III

THREE PHASE CIRCUITS AND COUPLED CIRCUITS

Three-phase circuits, star-star, delta-delta analysis of balanced circuits, unbalanced analysis of three phase 3 wire, 4 wire, delta circuits, measurement of power by three and two watt meters, measurement of reactive power by single wattmeter, Mutual coupled circuits, Dot Convention in coupled circuits.

UNIT IV

ELECTRICAL CIRCUIT ANALYSIS USING LAPLACE TRANSFORMS

Review of Laplace Transform, Analysis of electrical circuits using Laplace Transform for standard inputs, convolution integral, Inverse Laplace Transform, transformed network with initial conditions, Transfer function representation, Poles and Zeros.

UNIT V

TWO PORT NETWORKS

Two Port Networks, terminal pairs, relationship of two port variables, impedance, admittance, hybrid and transmission parameters, condition for symmetry and reciprocity, interrelationship between various parameters, interconnections of two port networks (series, parallel and cascade)

Text Books

- 1. W. H. Hayt and J. E. Kemmerly, "Engineering Circuit Analysis", McGraw Hill Education, 2013.
- 2. C. K. Alexander and M. N. O. Sadiku, "Fundamentals of Electric Circuits", McGraw Hill Education, 2004
- 3. M. E. Van Valkenburg, "Network Analysis", Prentice Hall, 2006.

References

- 1. Circuit Theory (Analysis and Synthesis) by A.Chakrabarti-Dhanpat Rai & Co.
- 2. Network Theory by N.C.Jagan and C.Lakshminarayana, BS Publications.
- 3. K. V. V. Murthy and M. S. Kamath, "Basic Circuit Analysis", Jaico Publishers, 1999.
- 4. D. Roy Choudhury, "Networks and Systems", New Age International Publications, 1998.

GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY ELECTROMAGNETIC FIELDS

Course Code: GR20A2026 L/T/P/C: 3/0/0/3

II Year I Semester

Course Objectives:

- 1. Apply vector Calculus and different coordinates systems for Electro and Magnetic systems.
- 2. Understand the knowledge of Electro field theory for Point, Line, Surface Charge.
- 3. Understand the concept of conductors, dielectrics, inductance, capacitance.
- 4. Ability to do Calculations of MFI for Line, Surface Conductors with different Shapes.
- 5. Ability of mathematical representation and analysis of EM waves at media interfaces.

Course Outcomes:

- 1. Solve the problems in different EM fields using Different Coordinates Systems.
- 2. Evaluate the Electric Field Density and Intensity for Different Charges.
- 3. Understand the Electromagnetic Relation using Maxwell Formulae.
- 4. Analyze circuits using Conductors in Time Varying Fields.
- 5. Analyze and solve problems of EM wave propagation at media interfaces.

UNIT I

STATIC ELECTRIC FIELD

Coulomb's law- Electric Field Intensity-Electrical Field due to Point charge, Line, Surface and Volume Charge distributions. Gauss Law and its Applications. Absolute Electric potential- Potential difference-Calculation of potential differences for different configurations. Electric Dipole- Electrostatic Energy density.

UNIT II

CONDUCTORS

Dielectrics and Capacitance Current and current density- Ohms Law in Point form- Continuity of current-Boundary conditions of perfect dielectric materials. Permittivity of dielectric materials- Capacitance-Capacitance of a two-wire line- Poisson's equation- Laplace's equation- Solution of Laplace and Poisson's equation- Application of Laplace's and Poisson's equations.

UNIT III

STATIC MAGNETIC FIELDS- Biot-Savart Law- Ampere Law-Magnetic flux and Magnetic Flux Density- Scalar and Vector Magnetic Potentials. Steady Magnetic Fields produced by current carrying conductors. Magnetic Forces-Materials and Inductance Force on a moving charge-Force on a differential current element- Force between differential current elements- Nature of magnetic materials- Magnetization and Permeability- magnetic boundary conditions- Magnetic Circuits- inductances and mutual inductances.

UNIT IV

TIME VARYING FIELDS and Maxwell's Equations Faraday's law for Electromagnetic induction-Displacement current- Point form of Maxwell's equation- Integral form of Maxwell's equations- Motional Electromotive forces, Boundary Conditions.

UNIT V

WAVE EQUATIONS AND SOLUTIONS, Time-harmonic fields, Plane waves in lossless media, Plane waves in lossy media (low-less dielectrics and good conductors), Group Velocity, Electromagnetic power flow and poynting vector, Normal incidence at a plane conducting boundary, Normal incidence at a plane dielectric boundary.

Text/Reference Books:

- Matthew N.O.Sadiku, "Principles of Electromagnetics", Oxford University Publication, 2014.
 W.Hayt, John A.Buck "Engineering Electromagnetics", McGraw Hill Education, 2012.
 Pramanik, "Electromagnetism-Problems with solution", Prentice Hall India, 2012.
- 4. G. W. Carter, "The electromagnetic field in its engineering aspects", Longmans, 1954.
- 5. Pramanik, "Electromagnetism Theory and applications", PHI Learning Pvt. Ltd, New Delhi, 2009

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Gokaraju Rangaraju Institute of Engineering and Technology Electrical and Electronics Engineering Remedial Classes-II B.Tech I Sem-2021-22

Remedial Classes- Student Attendance List (P=Present & A=Absent)

Sl.No		Subject Code	Subject Name				31-01-2022
1	20241A0201	GR20A2023	Electrical Circuit	P	A	P	P
2	20241A0202	GR20A2023	Electrical Circuit	P	A	P	A
3	20241A0203	GR20A2023	Electrical Circuit	P	A	A	A
4	20241A0207	GR20A2023	Electrical Circuit	A	P	A	A
5	20241A0209		Electrical Circuit	A	P	A	A
6	20241A0210		Electrical Circuit	P	P	A	P
7	20241A0213		Electrical Circuit	P	P	A	P
8	20241A0214	GR20A2023	Electrical Circuit	P	P	A	P
9	20241A0219	GR20A2023	Electrical Circuit	P	P	A	P
10	20241A0221	GR20A2023	Electrical Circuit	P	A	A	A
11	20241A0222	GR20A2023	Electrical Circuit	A	A	A	P
12	20241A0225	GR20A2023	Electrical Circuit	P	A	P	P
13	20241A0226		Electrical Circuit	P	A	P	A
14	20241A0227	GR20A2023	Electrical Circuit	P	A	A	A
15	20241A0228	GR20A2023	Electrical Circuit	A	P	A	A
16	20241A0231	GR20A2023	Electrical Circuit	A	P	A	A
17	20241A0234	GR20A2023	Electrical Circuit	P	P	A	P
18	20241A0236		Electrical Circuit	P	P	A	P
19	20241A0237	GR20A2023	Electrical Circuit	P	P	A	P
20	20241A0243	GR20A2023	Electrical Circuit	P	P	A	P
21	20241A0244	GR20A2023	Electrical Circuit	P	A	A	A
22	20241A0250	GR20A2023	Electrical Circuit	A	A	A	P
23	20241A0252	GR20A2023	Electrical Circuit	A	P	A	P
24	20241A0255	GR20A2023	Electrical Circuit	A	P	P	P
25	20241A0256	GR20A2023	Electrical Circuit	A	P	P	A
26	20241A0257	GR20A2023	Electrical Circuit	P	P	P	P
27	21245A0207	GR20A2023	Electrical Circuit	P	P	P	P
28	21245A0208	GR20A2023	Electrical Circuit	P	P	A	P
29	21245A0209	GR20A2023	Electrical Circuit	P	P	A	P
Sl.No	Roll.No	Subject Code	Subject Name	21-01-2022	22-01-2022	24-01-2022	25-01-2022
1	20241A0201	GR20A2023	Electromagnetic Fields	P	A	P	P
2	20241A0207	GR20A2023	Electromagnetic Fields	P	A	A	P
3	20241A0208		Electromagnetic Fields	P	A	P	P
4	20241A0209	GR20A2023	Electromagnetic Fields	P	A	P	A
5	20241A0212	GR20A2023	Electromagnetic Fields	P	A	A	A
6	20241A0213	GR20A2023	Electromagnetic Fields	A	P	A	A
7	20241A0214	GR20A2023	Electromagnetic Fields	A	P	A	A
8	20241A0219	GR20A2023	Electromagnetic Fields	P	P	A	P
9	20241A0220	GR20A2023	Electromagnetic Fields	P	P	A	P
10	20241A0221	GR20A2023	Electromagnetic Fields	P	P	A	P
11	20241A0225	GR20A2023	Electromagnetic Fields	P	P	A	P
12	20241A0227	GR20A2023	Electromagnetic Fields	P	A	A	A
13	20241A0228	GR20A2023	Electromagnetic Fields	A	A	A	P
14	20241A0231	GR20A2023	Electromagnetic Fields	A	P	A	P
15	20241A0234	GR20A2023	Electromagnetic Fields	P	A	P	P
16	20241A0236	GR20A2023	Electromagnetic Fields	P	A	P	A
17	20241A0238	GR20A2023	Electromagnetic Fields	P	A	A	A
18	20241A0241	GR20A2023	Electromagnetic Fields	A	P	A	A
19	20241A0242	GR20A2023	Electromagnetic Fields	A	P	A	A
20	20241A0244	GR20A2023	Electromagnetic Fields	P	P	A	P
21	20241A0245	GR20A2023	Electromagnetic Fields	P	P	A	P

22	20241A0250	GR20A2023	Electromagnetic Fields	P	P	A	P
23	20241A0252	GR20A2023	Electromagnetic Fields	P	P	A	P
24	20241A0253	GR20A2023	Electromagnetic Fields	P	A	A	A
25	20241A0255	GR20A2023	Electromagnetic Fields	A	A	A	P
26	20241A0256	GR20A2023	Electromagnetic Fields	A	P	A	P
27	21245A0202	GR20A2023	Electromagnetic Fields	A	P	P	P
28	21245A0203	GR20A2023	Electromagnetic Fields	A	P	P	A
29	21245A0207	GR20A2023	Electromagnetic Fields	P	P	P	P
30	21245A0208	GR20A2023	Electromagnetic Fields	P	P	P	P
31	21245A0209	GR20A2023	Electromagnetic Fields	P	P	A	P



REMEDIAL CLASSES (Academic support for students) Student Feed Back

Branch: EEE Year: II Sem: I Subject: Electrical Circuit Analysis (ECA) Faculty Name: Mr. D Karunakumar

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
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Suggestions:

Dean Finishing School



REMEDIAL CLASSES (Academic support for students) Student Feed Back

Branch: EEE Year: II Sem: I Subject: Electrical Circuit Analysis (ECA) Faculty Name: Mr. D Karunakumar

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:

Dean Finishing School



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Branch: EEE Year: II Sem: I Subject: Electrical Circuit Analysis (ECA) Faculty Name: Mr. D Karunakumar

S.No	Item	Feedback
1	Material presented	Excellent/✓Very Good/Good/Average/Below Average
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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:

Dean Finishing School



REMEDIAL CLASSES (Academic support for students) Student Feed Back

Branch: EEE Year: II Sem: I Subject: Electromagnetic Fields Faculty Name: Mr. P Praveen Kumar

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:

Dean Finishing School



REMEDIAL CLASSES (Academic support for students) Student Feed Back

Branch: EEE Year: II Sem: II

Subject: Control Systems(CS) Faculty Name: Mr. D Karunakumar

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:

Dean Finishing School



REMEDIAL CLASSES (Academic support for students) Student Feed Back

Branch: EEE Year: II Sem: II

Subject: Control Systems(CS) Faculty Name: Mr. D Karunakumaer

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:

Dean Finishing School



Gokaraju Rangaraju Institute of Engineering and Technology

Electrical and Electronics Engineering

Remedial Classes Report II B.Tech I Sem

Faculty Report on Subject

Subject: Electrical Circuit Analysis

Unit-1: Discussed about Fourier Series and Fourier Transform & Properties of Fourier Series & Fourier transforms, Parseval's theorem.

Unit-2: Explain about Network Theorems & Solution of First and Second order networks

Unit-3: Discussed about Three Phase Circuits and Coupled Circuits

Unit-4: Explain About Electrical Circuit Analysis Using Laplace Transforms & Inverse Laplace Transform, Transformed Network with Initial Conditions, Transfer Function Representation, Poles and Zero

Unit-5: Discussed about Two Port Networks & Interrelationship between Various Parameters, Interconnections of Two Port Networks

II. Previous question papers

III. Notes or PPTs



Gokaraju Rangaraju Institute of Engineering and Technology

Electrical and Electronics Engineering Remedial Classes Report

II B.Tech I Sem

Faculty Report on Subject

Subject: Electromagnetic Fields

Unit-1: Coulomb's law- Electric Field Intensity-Electrical Field due to Point charge

Unit-2: Explain about Dielectrics and Capacitance Current and current density- Ohms Law in Point form

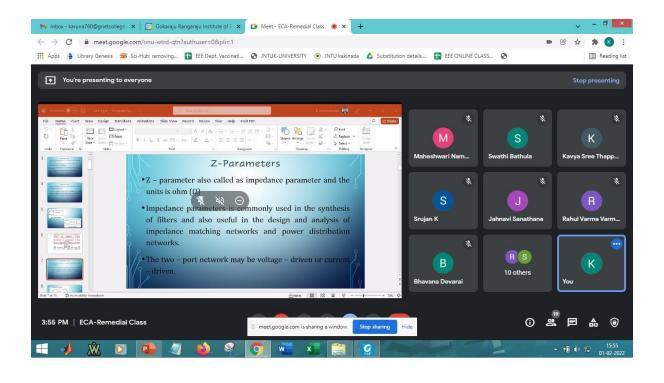
Unit-3: Discussed about Biot-Savart Law- Ampere Law-Magnetic flux and Magnetic Flux Density- Scalar and Vector Magnetic Potentials.

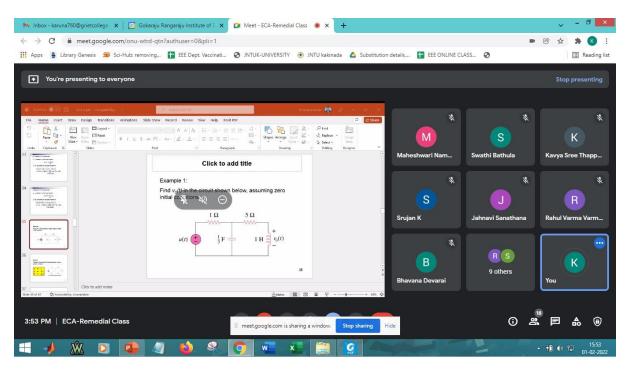
Unit-4: Explain about Time Varying Fields and Maxwell's Equations Faraday's law for Electromagnetic induction Displacement current

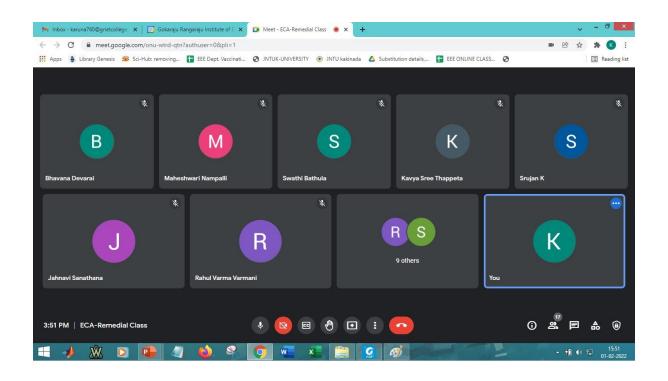
Unit-5: Discussed about Wave Equations and Solutions, Time-harmonic fields, Plane waves in lossless media

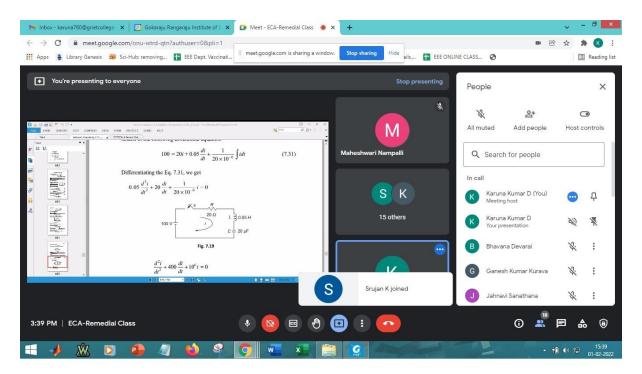
II. Previous question papers

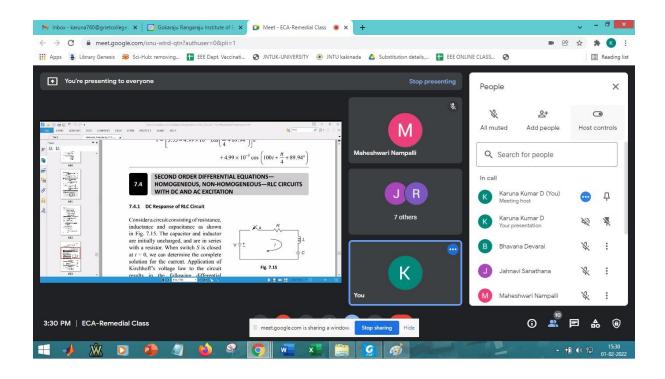
III. Notes or PPTs

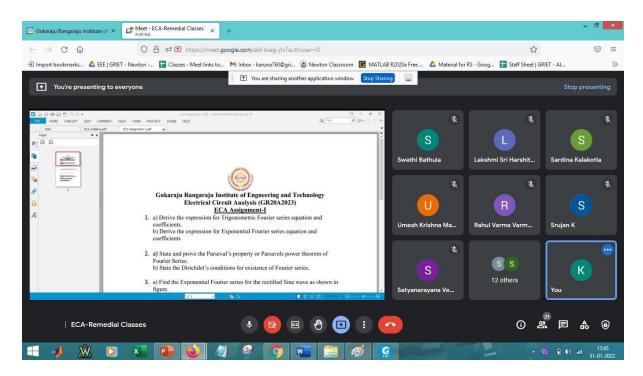


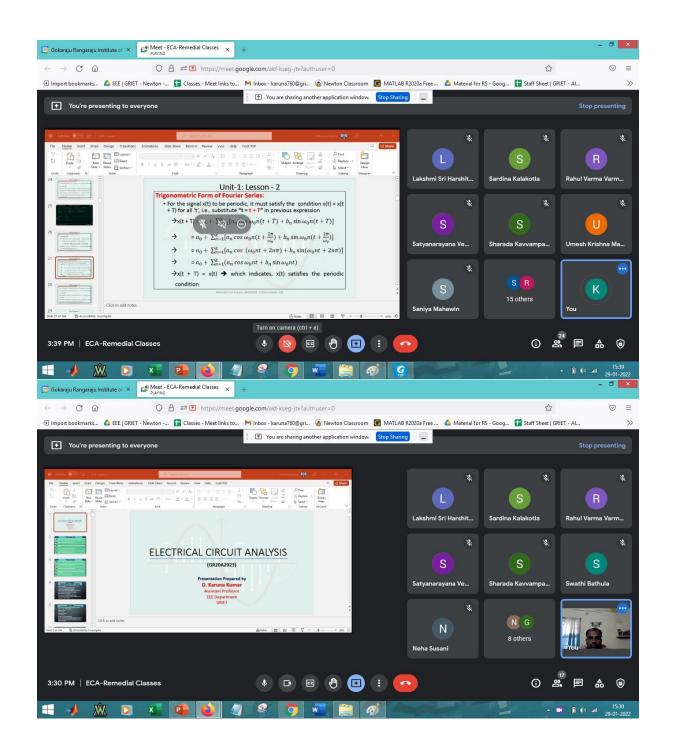


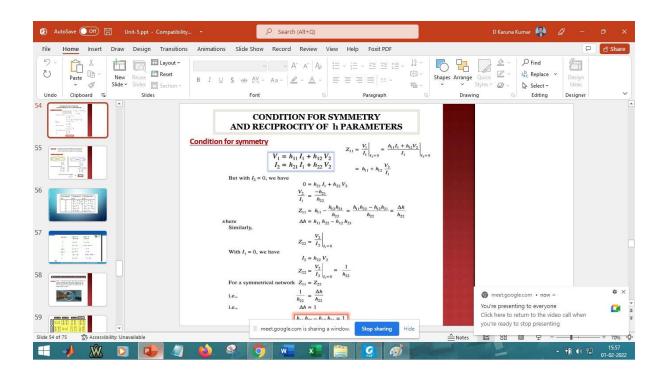












Report on Remedial Classes

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 two or more backlogs in previous academic year 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 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	No.of students	Transition rate
		attended	passed	
1.	Electrical Circuit Analysis	29	21	72.41
2.	Electromagnetic Fields	31	14	45.16

Gokaraju Rangaraju Institute of Engineering and Technology

Electrical and Electronics Engineering Remedial Classes-II B.Tech I Sem-2021-22

Remedial Classes- Results

Sl.No	Roll.No	Subject Code	Subject Name	Result
1	20241A0201	GR20A2023	Electrical Circuit	Pass
2	20241A0202	GR20A2023	Electrical Circuit	Pass
3	20241A0203	GR20A2023	Electrical Circuit	Pass
4	20241A0207	GR20A2023	Electrical Circuit	Pass
5	20241A0209	GR20A2023	Electrical Circuit	Pass
6	20241A0210	GR20A2023	Electrical Circuit	Pass
7	20241A0213	GR20A2023	Electrical Circuit	Fail
8	20241A0214	GR20A2023	Electrical Circuit	Pass
9	20241A0219	GR20A2023	Electrical Circuit	Pass
10	20241A0221	GR20A2023	Electrical Circuit	Pass
11	20241A0222	GR20A2023	Electrical Circuit	Pass
12	20241A0225	GR20A2023	Electrical Circuit	Fail
13	20241A0226	GR20A2023	Electrical Circuit	Pass
14	20241A0227	GR20A2023	Electrical Circuit	Pass
15	20241A0228	GR20A2023	Electrical Circuit	Fail
16	20241A0231	GR20A2023	Electrical Circuit	Fail
17	20241A0234	GR20A2023	Electrical Circuit	Pass
18	20241A0236	GR20A2023	Electrical Circuit	Pass
19	20241A0237	GR20A2023	Electrical Circuit	Pass
20	20241A0243	GR20A2023	Electrical Circuit	Pass
21	20241A0244	GR20A2023	Electrical Circuit	Fail
22	20241A0250	GR20A2023	Electrical Circuit	Fail
23	20241A0252	GR20A2023	Electrical Circuit	Pass
24	20241A0255	GR20A2023	Electrical Circuit	Fail
25	20241A0256	GR20A2023	Electrical Circuit	Pass
26	20241A0257	GR20A2023	Electrical Circuit	Pass
27	21245A0207	GR20A2023	Electrical Circuit	Fail
28	21245A0208	GR20A2023	Electrical Circuit	Pass
29	21245A0209	GR20A2023	Electrical Circuit	Pass
Sl.No	Roll.No	Subject Code	Subject Name	Result
1	20241A0201	GR20A2023	Electromagnetic Fields	Pass
2	20241A0207	GR20A2023	Electromagnetic Fields	Fail
3	20241A0208	GR20A2023	Electromagnetic Fields	Pass
4	20241A0209	GR20A2023	Electromagnetic Fields	Fail
5	20241A0212	GR20A2023	Electromagnetic Fields	Pass
6	20241A0213	GR20A2023	Electromagnetic Fields	Fail
7	20241A0214	GR20A2023	Electromagnetic Fields	Fail
8	20241A0219	GR20A2023	Electromagnetic Fields	Fail
9	20241A0220	GR20A2023	Electromagnetic Fields	Pass
10	20241A0221	GR20A2023	Electromagnetic Fields	Pass
11	20241A0225	GR20A2023	Electromagnetic Fields	Fail
12	20241A0227	GR20A2023	Electromagnetic Fields	Pass
13	20241A0228	GR20A2023	Electromagnetic Fields	Fail
14	20241A0231	GR20A2023	Electromagnetic Fields	Fail
15	20241A0234	GR20A2023	Electromagnetic Fields	Pass
16	20241A0236	GR20A2023	Electromagnetic Fields	Fail
17	20241A0238	GR20A2023	Electromagnetic Fields	Pass
18	20241A0241	GR20A2023	Electromagnetic Fields	Pass
19	20241A0242	GR20A2023	Electromagnetic Fields	Pass
20	20241A0244	GR20A2023	Electromagnetic Fields	Fail
21	20241A0245	GR20A2023	Electromagnetic Fields	Pass

22	20241A0250	GR20A2023	Electromagnetic Fields	Fail
23	20241A0252	GR20A2023	Electromagnetic Fields	Fail
24	20241A0253	GR20A2023	Electromagnetic Fields	Pass
25	20241A0255	GR20A2023	Electromagnetic Fields	Fail
26	20241A0256	GR20A2023	Electromagnetic Fields	Fail
27	21245A0202	GR20A2023	Electromagnetic Fields	Pass
28	21245A0203	GR20A2023	Electromagnetic Fields	Pass
29	21245A0207	GR20A2023	Electromagnetic Fields	Fail
30	21245A0208	GR20A2023	Electromagnetic Fields	Fail
31	21245A0209	GR20A2023	Electromagnetic Fields	Fail