



REMEDIAL CLASSES

2021-2022

DEPARTMENT OF HUMANITIES AND SCIENCES

GOKARAJU RANGARAJU
INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Autonomous)

09september 2021

From
Dean,
Remedial school
GRIET.

To
The HOD
H&S
GRIET

Request for faculty to conduct Remedial classes.

Sir/Madam,

This is to inform you that the Remedial school of GRIET is conducting Remedial classes of through online mode for B. Tech I- year students to clear their backlogs. To conduct the classes, we request you to nominate faculty for each of the following subjects .

Course Title	No. of Students Having Backlogs	Date & Timings	Name of the Faculty	Mobile Number
Basic Electrical Engineering	I Year -75	11september-14september 2021 (9.30-10.30)AM	D.Karuna Kumar	9959493737
Engineering Graphics	I Year -130	6september-11september 2021 (11.00-12.00)AM	V.BALAJI	9989633066
Linear Algebra and Differential Calculus	I Year – 165	30August-4september 2021 (1.30-2.30)PM	A Srihari	9640588891
Programming for Problem Solving	I Year -190	30August-4september 2021 (3.00-4.00)PM	R.Shanmukha Shalini	9951178555

(H&S-HOD)

Dean, Remedial School



Gokaraju Rangaraju Institute of Engineering and Technology

Remedial School

Remedial Classes Schedule

11september -14september 2021 - B.Tech I Year Students

Timing: BEE: 9.30 -10.30 AM

EG : 11.00– 12.00AM

LADC: 1.30 -2.30 PM

PPS : 3.00 – 4.00PM

S. No	Year	Subject	Name of the Faculty	Session-1	Session-2	Session-3	Session-4
1	I	Basic Electrical Engineering	D.Karuna Kumar (9959493737)	11/09/2021	12/09/2021	13/09/2021	14/09/2021
2	I	Engineering Graphics	V.BALAJI (9989633066)	11/09/2021	12/09/2021	13/09/2021	14/09/2021
3	I	Linear Algebra and Differential Calculus	A Srihari (9640588891)	11/09/2021	12/09/2021	13/09/2021	14/09/2021
4	I	Programming for Problem Solving	R.Shanmukha Shalini (9951178555)	11/09/2021	12/09/2021	13/09/2021	14/09/2021

(H&S-HOD)

Dean, Remedial School

**GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY**

Autonomous

I B.Tech. 2021-22

SUBJECT:BEE

S.No	Roll No.	11/9/2021	12/9/2021	13/9/2021	14/9/2021	Result
1	20241A0207	A	A	A	A	Fail
2	20241A0409	P	P	P	P	Pass
3	20241A0426	P	P	P	P	Pass
4	20241a0437	P	P	P	P	Pass
5	20241A0442	P	P	P	P	Pass
6	20241A0443	P	P	P	P	Pass
7	20241A0449	P	P	P	P	Pass
8	20241A0450	P	P	P	P	Pass
9	20241A0461	P	P	P	P	Pass
10	20241A0472	P	P	P	P	Pass
11	20241A0473	P	P	P	P	Pass
12	20241A0488	P	P	P	P	Pass
13	20241A0489	P	P	P	P	Pass
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16	20241A04A3	A	A	A	A	Fail
17	20241A04A5	P	P	P	P	Pass
18	20241A04B1	P	P	P	P	Pass
19	20241A04B2	P	P	P	P	Pass
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23	20241A04D7	P	P	P	P	Pass
24	20241A04D9	P	P	P	P	Pass
25	20241A04E0	P	P	P	P	Pass
26	20241A04E5	P	P	P	P	Pass
27	20241A04F3	P	P	P	P	Pass
28	20241A04F4	P	P	P	P	Pass
29	20241A04G8	A	A	A	A	Fail
30	20241A04H0	P	P	P	P	Pass
31	20241A04H6	A	A	A	A	Fail
32	20241A04H7	P	P	P	P	Pass
33	20241A04H9	P	P	P	P	Pass
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60	20241A12F6	P	A	P	P	Pass
61	20241A12G6	P	P	P	P	Pass
62	20241A12H0	A	P	P	P	Pass



Gokaraju Rangaraju Institute of Engineering and Technology

Electrical and Electronics Engineering

Remedial Classes Report

I B.Tech I Sem & II Sem

Faculty Report on Subject

Subject: Basic Electrical Engineering

Unit-1: Discussed about the electrical circuit & theorems & analysis of simple circuits with dc excitation.

Unit-2: Explain about Analysis of single-phase AC circuits & resonance in series RLC circuit and three phase circuits

Unit-3: Discussed about I: DC Machines and transformers & Autotransformer and three-phase transformer connections.

Unit-4: Explain about Construction and working of AC Machines & Construction and working of synchronous generators.

Unit-5: Discussed about Components of LT Switchgear Types of Wires and Cables, Earthing. Types of Batteries

II. Previous question papers

III. Notes or PPTs

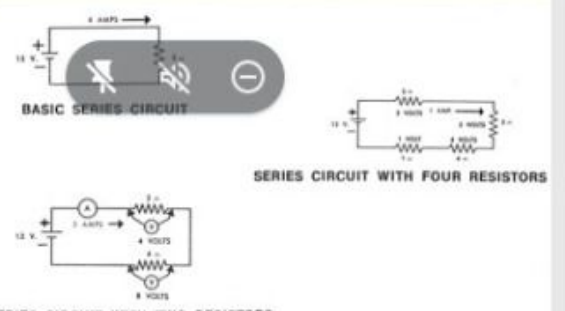


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Stop presenting

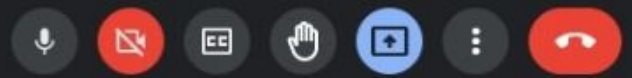
Series Circuits



The slide displays three circuit diagrams illustrating series circuits:

- BASIC SERIES CIRCUIT:** A circuit with a 12V DC source, a 2-amp current source, and a switch.
- SERIES CIRCUIT WITH FOUR RESISTORS:** A circuit with a 12V DC source and four resistors connected in series.
- SERIES CIRCUIT WITH TWO RESISTORS:** A circuit with a 12V DC source, a 2-amp current source, and two resistors connected in series.

M Mounika N	S Sai Praneeth Bo...	A Aamani Katuri	S Sai Pradeep Go...
V Vasu Dev Vidiya...	B Bhaavan Sai Ra...	R Rudreshwar Go...	L Lakshmi Kanth P
J Jyoshna Viswa...	T Thanush Reddy ...	V Y 2 others	K You





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EENG225: CIRCUIT THEORY I

Nodal Analysis

- Steps to Determine Node Voltages:
 1. Select a node as the **reference node**. Assign voltage v_1, v_2, \dots, v_{n-1} to the remaining $n-1$ nodes. The voltages are referenced with respect to the **reference node**.
 2. Apply **KCL** to each of the $n-1$ **non-reference nodes**. Use Ohm's law to express the branch currents in terms of node voltages.
 3. Solve the resulting simultaneous equations to obtain the unknown node voltages.

M Mounika N	Y Yashwanth Var...	A Aamani Katuri	B Bhaavan Sai Ra...
R Rudreshwar Go...	B Bhaavan Sai Ra...	M Meghana Karna...	L Lakshmi Kanth P
J Jyoshna Viswa...	A Abdul Feroze	B V 2 others	K You





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2: Thevenin's Theorem

Thevenin's theorem states that "Any two terminal linear network having a number of voltage current sources and resistances can be replaced by a simple equivalent circuit consisting of a single voltage source in series with a resistance."

where the value of the voltage source (V_{th}) is equal to the open-circuit voltage across the two terminals of the network

Resistance (R_{th}) is equal to the equivalent resistance measured between the terminals with all the energy sources are replaced by their internal resistances."

M Mounika N	S Sai Praneeth Bo...	A Aamani Katuri	B Bhaavan Sai Ra...
R Rudreshwar Go...	B Bhaavan Sai Ra...	M Meghana Karna...	L Lakshmi Kanth P
J Jyoshna Viswa...	A Abdul Feroze	Y V 3 others	K You



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I B.Tech. 2021-22

SUBJECT:EG

S.No	Roll number	11/9/2021	12/9/2021	13/9/2021	14/9/2021	Result
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5	20241A0108	P	P	P	P	Pass
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7	20241A0111	P	P	P	P	Pass
8	20241A0113	P	P	P	P	Pass
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10	20241A0115	P	P	P	P	Pass
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14	20241A0130	P	P	P	P	Pass
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81	20241A6727	P	P	P	P	Pass
82	20241A6750	P	P	P	P	Pass

GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Remedial School

Faculty Report on Subject

Engineering Graphics

Unit I

Introduction to Engineering Graphics: Principles of Engineering Graphics and their Significance; **Conic Sections-** ellipse, parabola and hyperbola – General method only. **Cycloidal curves** –cycloid, epi-cycloid and hypo-cycloid; **Scales**– plain and diagonal.

Unit II

Projections of Points, Lines and Planes: Introduction to principal planes of projections, **Projections of the points** located in same quadrant and different quadrants, **Projections of line** with its inclination to one reference plane and with two reference planes. True length and inclination with the reference planes. **Projections of regular planes** (polygons, circle and Square etc.,) with its inclination to one reference plane and with two reference planes, Concept of auxiliary plane method for projections of the plane.

Unit III

Projections of solids (regular and right solids only) - Classification of solids, Projections of solids (Cylinder, Cone, Pyramid and Prism) **Intersection of solids** – concept of lines of intersection and curves of intersection, intersection of solids (Prism Vs Prism and Cylinder Vs Cylinder) with their axes perpendicular to each other.

Unit IV

Section of solids – Sectional views of solids (Cylinder, Cone, Pyramid and Prism) and the true shape of the section, **Development of surfaces-** Development of surfaces of solids (Cylinder, Cone, Pyramid and Prism).

Unit V

Orthographic Projections: Fundamental of projection along with classification, Projections from the pictorial view of the object on the principal planes for view from front, top and sides using first angle projection method and third angle projection method;

Isometric Projections and Isometric View: Principles of Isometric Projection – Isometric Scale – Isometric Views –Conventions – Isometric Views of Lines, Plane Figures, Simple and Compound Solids – Isometric Projection of objects having non- isometric lines. Isometric Projection of Spherical Parts, Conversion of Isometric Views to Orthographic Views and Vice-versa –Conventions

II. Previous Question Papers Discussed

III. Material Shared with Students

IV. Classes are Conducted for Doubts Clarifications

REC



Praneeth Goud Voruganti



Sai Charan Teja M



Vamshi M



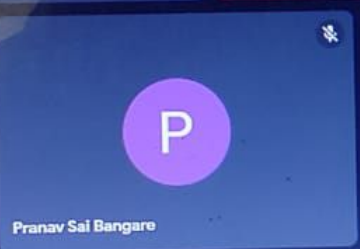
Mahith Reddy Gedi



Sai Nithin Maddela



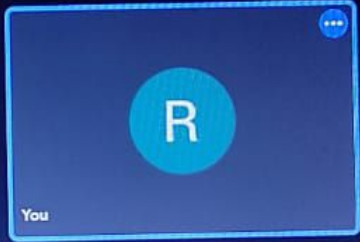
Rishik Kumar B



Pranav Sai Bangare



14 others

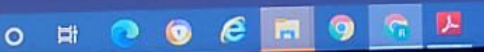


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Gokaraju Rangaraju Institute of Engineering and Technology

Remedial School

Student's Feedback on Remedial classes

Branch:H&S

Year:20-21

Semester:I

Subject: Engineering Graphics

Faculty Name: V.BALAJI

S.No	Item	Feed back
1.	Material presented	Excellent
2.	Teaching Clarity	Very Good
3.	Coverage of important topics	Excellent
4.	Doubts clarification	Excellent

Suggestions: Nil

(H&S-HOD)

Dean, Remedial School

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S.No	Roll No.	11/9/2021	12/9/2021	13/9/2021	14/9/2021	Result
1	20241A0105	A	A	A	A	Fail
2	20241A0106	A	P	A	A	Fail
3	20241A0110	P	P	P	P	Pass
4	20241A0111	P	P	P	P	Pass
5	20241A0132	P	P	P	P	Pass
6	20241A0135	P	P	P	P	Pass
7	20241A0139	P	P	P	P	Pass
8	20241A0145	A	P	P	P	Pass
9	20241A0152	P	P	P	P	Pass
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13	20241A0208	P	A	P	P	Pass
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77	20241A6718	P	P	P	P	Pass
78	20241A6719	A	P	A	A	Fail
79	20241A6738	P	P	P	P	Pass

Gokaraju Rangaraju Institute of Engineering and Technology
Remedial school

Faculty Report on Subject

I. LINEAR ALGEBRA AND DIFFERENTIAL CALCULUS

UNIT-1: VECTOR AND MATRIX ALGEBRA

Vector space (definition and examples), linear independence of vectors, orthogonality of vectors, projection of vectors, Gram-Schmidt orthonormalization of vectors

Symmetric, Hermitian, skew-symmetric, skew-Hermitian, orthogonal and unitary matrices; Rank of a matrix by echelon reduction, Solution of a linear algebraic system of equations (homogeneous and non-homogeneous)

UNIT-II: MATRIX EIGENVALUE PROBLEM AND QUADRATIC FORMS

Determination of eigenvalues and eigenvectors of a matrix, properties of eigenvalues and eigenvectors (without proof), diagonalization of a matrix, orthogonal diagonalization of symmetric matrices, Similarity of matrices

Quadratic forms: Definiteness and nature of a quadratic form, reduction of quadratic form to canonical forms by orthogonal transformation

UNIT-III: MATRIX DECOMPOSITION AND PSEUDO INVERSE OF A MATRIX

Spectral decomposition of a symmetric matrix, L-U decomposition, Q-R factorization, Singular value decomposition

Moore-Penrose pseudo inverse of a matrix, least squares solution of an over determined system of equations using pseudo inverse

UNIT-IV: MULTIVARIABLE DIFFERENTIAL CALCULUS AND FUNCTION OPTIMIZATION

Partial Differentiation: Total derivative. Jacobian; Functional dependence. Unconstrained optimization of functions using the Hessian matrix, constrained optimization using Lagrange multiplier method

UNIT-V: SINGLE VARIABLE CALCULUS

Mean value theorems: Rolle's Theorem, Lagrange's Mean value theorem and Taylor's theorem (without proof), their geometrical interpretation, approximation of a function by Taylor's series, Applications of definite integrals to evaluate surface areas and volumes of revolutions of curves (for Cartesian coordinates).

II. Previous Question Papers Discussed.

III. Material shared with the students.

IV. Classes are conducted for Doubts clarification.

SA
1345

REC + You're presenting to everyone

Stop presenting

... method

... leading

... number

... leading

... leading

All leading principal minors of A are non zero. So LU Decomposition is possible.

Stop presenting

- S Sai Nithin Maddela
- S Sathvik Kunapareddi
- S Shashank Kanchanapalli
- M Mounika N
- M Muni Narendra Babu Ka...
- R Rajashakar Thummala
- S H 8 others
- A You

1:53 PM | kwn-ypzp-bxa

Meeting controls: microphone, video, chat, hand raise, share screen, more options, end call.

meet.google.com is sharing a window.

G470

lenovo

REC You're presenting to everyone

Homogeneous system

$\rho(A) = \rho(A:B) \rightarrow$ consistent

$\rho(A) = \rho(A:B) < n$ (number of unknowns)

\rightarrow For Unique solⁿ: $\rho(A) = \rho(A:B) = n$ (number of unknowns)

\rightarrow For infinite no. of solⁿ $\rho(A) = \rho(A:B) < n$ (number of unknowns)

\rightarrow For No Solution $\rho(A) \neq \rho(A:B)$

Homogeneous system:

(1) If $\rho(A) = n$ then the system of equations have only trivial solⁿ. (zero solⁿ)

(2) If $\rho(A) < n$ then the system of equations have infinite number of non-trivial solⁿ. (Non-zero)

To avoid mirroring, don't share your entire screen or browser window. Share just a tab or a different window instead.

Stop presenting

S Sathvik Kunapareddi

P Pavan Prathap Reddy P...

U Umar Farug Sk

J Jaswanth Kandukuri

M S 23 others

A You

Stop presenting

Ignore

2:06 PM | kwn-ypzp-bxa

Microphone, Camera, Chat, Lock, Screen Share, More, End Call

meet.google.com is sharing a window. Stop sharing





Gokaraju Rangaraju Institute of Engineering and Technology

Remedial School

Student's Feedback on Remedial classes

Branch:H&S

Year:20-21

Semester:I

Subject:LADC

Faculty Name: A Srihari

S.No	Item	Feed back
1.	Material presented	Excellent
2.	Teaching Clarity	Very Good
3.	Coverage of important topics	Excellent
4.	Doubts clarification	Excellent

Suggestions: Nil

(H&S-HOD)

Dean, Remedial School

**GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY**

Autonomous

I B.Tech. 2020-21

SUBJECT:PPS

S.No	Roll No.	11/9/2021	12/9/2021	13/9/2021	14/9/2021	Result
1	20241A0101	P	P	P	P	Pass
2	20241A0147	P	P	P	P	Pass
3	20241A0156	P	P	P	P	Pass
4	20241A0126	P	P	P	P	Pass
5	20241A0111	P	P	P	P	Pass
6	20241A0105	P	P	P	P	Pass
7	20241A0152	P	P	P	P	Pass
8	20241A0240	P	P	P	P	Pass
9	20241A0221	P	P	P	P	Pass
10	20241A0224	P	P	P	P	Pass
11	20241A0319	P	P	P	P	Pass
12	20241A0336	P	P	P	P	Pass
13	20241A0358	P	P	P	P	Pass
14	20241A0320	P	P	P	P	Pass
15	20241A0322	P	P	P	P	Pass
16	20241A0488	P	P	P	P	Pass
17	20241A04Q1	P	P	P	P	Pass
18	20241A04A5	P	P	P	P	Pass
19	20241A0472	P	P	P	P	Pass
20	20241A04H0	P	P	P	P	Pass
21	20241A04B1	P	P	P	P	Pass
22	20241A04Q4	P	P	P	P	Pass
23	20241A04D5	P	P	P	P	Pass
24	20241A04P4	P	P	P	P	Pass
25	20241A04B6	P	P	P	P	Pass
26	20241A0443	P	P	P	P	Pass
27	20241A04N8	P	P	P	P	Pass
28	20241A04T3	P	P	P	P	Pass
29	20241A0426	P	P	P	P	Pass
30	20241A0449	P	P	P	P	Pass
31	20241a0437	P	P	P	P	Pass
32	20241A04M2	P	P	P	P	Pass
33	20241A04C9	P	P	P	P	Pass
34	20241A0406	P	P	P	P	Pass
35	20241A04D6	P	P	P	P	Pass
36	20241A0427	P	P	P	P	Pass
37	20241A04F3	P	P	P	P	Pass
38	20241A04P1	P	P	P	P	Pass
39	20241A04H1	P	P	P	P	Pass
40	20241A05V9	P	P	P	P	Pass
41	20241A05X1	P	P	P	P	Pass
42	20241A05R7	P	P	P	P	Pass
43	20241A05G5	P	P	P	P	Pass
44	20241A05Z5	P	P	P	P	Pass
45	20241A05K7	P	P	P	P	Pass
46	20241A05J8	P	P	P	P	Pass
47	20241A05I9	P	P	P	P	Pass
48	20241A05Y0	P	P	P	P	Pass
49	20241A05J5	P	P	P	P	Pass
50	20241A0555	P	P	P	P	Pass

51	20241A0521	P	P	P	P	Pass
52	20241A051A	P	P	P	P	Pass
53	20241A0566	P	P	P	P	Pass
54	20241A05U1	P	P	P	P	Pass
55	20241A05F0	P	P	P	P	Pass
56	20241A1226	P	P	P	P	Pass
57	20241A12H3	P	P	P	P	Pass
58	20241A12C1	P	P	P	P	Pass
59	20241A1254	P	P	P	P	Pass
60	20241A1251	P	P	P	P	Pass
61	20241A12C4	P	P	P	P	Pass
62	20241A12F6	P	P	P	P	Pass
63	20241A12E6	P	P	P	P	Pass
64	20241A12F2	P	P	P	P	Pass
65	20241A1228	P	P	P	P	Pass
66	20241A6659	P	P	P	P	Pass
67	20241A6607	P	P	P	P	Pass
68	20241A6623	P	P	P	P	Pass
69	20241A6621	P	P	P	P	Pass
70	20241A6705	P	P	P	P	Pass
71	20241A0133	A	A	A	A	Fail
72	20241A0139	A	A	A	A	Fail
73	20241A0114	A	P	A	A	Fail
74	20241A0107	A	A	A	A	Fail
75	20241A0148	A	A	P	A	Fail
76	20241A0250	A	A	A	A	Fail
77	20241A0225	A	P	A	A	Fail
78	20241A0309	A	P	A	A	Fail
79	20241A0321	A	A	A	A	Fail
80	20241A04H9	A	A	P	A	Fail
81	20241A04T0	A	A	A	A	Fail
82	20241A04G8	A	A	A	A	Fail
83	20241A05D2	A	P	A	A	Fail
84	20241A0546	A	P	A	A	Fail
85	20241A05E9	A	A	A	A	Fail
86	20241A053A	A	A	P	A	Fail
87	20241A12H6	A	A	A	A	Fail
88	20241A1290	A	A	A	A	Fail
89	20241A6624	A	A	A	A	Fail

GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Remedial School

Faculty Report on Subject

PPS

UNIT I

Introduction to Programming: Introduction to Algorithms: Representation of Algorithm, Flowchart, Pseudo code with examples, Compiling & executing program, Syntax and logical errors.

Introduction to C Programming Language: Structure of c program, Variables, Data types, Constants, Operators, Expressions and precedence, Expression evaluation, Type conversion.

I/O: Simple input and output with formatted I/O and unformatted I/O.

UNIT II

Decision Making and Arrays: Conditional Branching and Loops: Conditional branching with if, if-else, nested if-else, else if ladder, switch-case, Loops: for, while, do-while, Jumping statements: goto, break, continue.

Arrays: One and Two dimensional arrays, creating, Accessing and manipulating elements of arrays

Searching: Basic searching in an array of elements, Linear and Binary search.

UNIT III

Strings and Functions: Strings: Introduction to strings, Operations on characters, Basic string functions available in C (strlen, strcat, strcpy, strcmp, strstr), String operations without string handling functions, Arrays of strings.

Functions: Designing structured programs, declaring a function, Signature of a function, Parameters and return type of a function (categories of functions), call by value, call by reference, passing arrays to functions, recursion, merits and demerits of recursive functions, Storage classes.

UNIT IV

Pointers and Structures: Pointers: Idea of pointers, Defining pointers, Pointer to pointer, void pointer, Null pointer, Pointers to Arrays and Structures, Function pointer.

Structures and unions: Defining structures, Initializing Structures, Array of structures, Arrays within structures, Nested structures, Passing structures to functions, Unions, typedef.

UNIT V

File handling and Preprocessor in C:

Files: Text and Binary files, Creating and Reading and writing text and binary files, Random access to files, Error Handling in files, Command line arguments, Enumeration data type.

Preprocessor: Commonly used Preprocessor commands like include, define, undef, if, ifdef, ifndef, elif.

II. Previous Question Papers Discussed

III. Material Shared with Students

IV. Classes are Conducted for Doubts Clarifications

REC You're presenting to everyone Stop presenting

```

Standard Error
Standard error is where you should display error messages. We've already done that above: fprintf(stderr, "Can't open input file\n");
Standard error is normally associated with the same place as standard output; however, redirecting standard output does not redirect standard error
For example
%a a.out > outfile

only redirects stuff going to standard output to the file outfile... anything written to standard error goes to the screen.

Simulate a C program to read and display the contents of a file?
Program:
#include <stdio.h>
void main()
{
FILE
"l"; char ch;
f=fopen("data.txt","r");
printf("Enter some text here and press ctrl D or Z to stop\n"); while(ch=getchar())!=EOF)
fprintf(stderr,"%c",ch);
printf("The contents of file are\n");
while( (ch = fgetc(f)) != EOF ) putchar(ch);
fclose(f);
}

Develop a C program to copy the contents of one file to another? Program
# include <stdio.h>
void main()
{
FILE *f1,*f2; char ch;
f1=fopen("source.txt","r");
printf("Enter some text here and press ctrl D or Z to stop\n"); while(ch=getchar())!=EOF)
fprintf(f1,"%c",ch);
}

```

Grid of participant tiles:

- Sai Charan Teja M (Purple)
- Bhavana Reddy Yara... (Blue)
- Rishik Kumar B (Red)
- Manisha Daravath (Orange)
- Priyadarshini Kumar... (Red)
- Shilpi Bukya (Blue)
- Lalitha Shreya Chon... (Blue)
- 2 others (Blue)
- You (Teal)

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Gokaraju Rangaraju Institute of Engineering and Technology

Remedial School

Student's Feedback on Remedial classes

Branch:H&S

Year:20-21

Semester:I

Subject:PPS

Faculty Name: D.Suguna Kumari

S.No	Item	Feed back
1.	Material presented	Excellent
2.	Teaching Clarity	Very Good
3.	Coverage of important topics	Excellent
4.	Doubts clarification	Excellent

Suggestions: Nil

(H&S-HOD)

Dean, Remedial School

BEE

Branch	Appeared	Passes	Transition rate
IT	16	13	81.25
ECE	45	39	86.67
Total	61	52	85.25

EG

Branch	Appeared	Passes	Transition rate
CE	20	20	100
ME	9	9	100
CSE	52	45	87
CS(Allied)	15	14	93
Total	96	88	92

LADC

Branch	Appeared	Passes	Transition rate
CE	10	8	80
EEE	11	9	81.82
ME	5	3	60
ECE	13	10	76.92
CSE	18	14	77.78
IT	5	3	60
CSE(DS,M)	3	2	66.67
Total	65	49	75.38

PPS

Branch	Appeared	Passes	Transition rate
CE	12	7	58.33
EEE	5	3	60
ME	7	5	71.43
ECE	27	24	88.89
CSE	20	16	80
IT	12	10	83.33
CSE(DS,M)	6	5	83.33
Total	89	70	78.65

Report of Remedial Classes

2021-2022

This is to inform you that the Remedial school of GRIET is conducting Remedial classes of through online mode for B. Tech I-year students to clear their backlogs.

1. Remedial classes are conducted in different Subjects to support the students in clearing their backlogs. As the first step, classes are held to students in different schedules. Students were informed through SMS. Students' show lot of interest. Faculty gave tips as well as material for the students above 75% 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. For some subjects they came and attentive.
3. The sessions are to prevent failure rate and thereby increasing transition rate. The subjects are selected based on 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 Title	No. of Students Having Backlogs	No. of Students Passed In Exam	Transition Rate
1	Basic Electrical Engineering	61	52	85.25
2	Engineering Graphics	96	88	92.00
3	Linear Algebra and Differential Calculus	65	49	75.38
4	Programming for Problem Solving	89	70	78.65



REMEDIAL CLASSES

2021-2022

DEPARTMENT OF HUMANITIES AND SCIENCES

GOKARAJU RANGARAJU
INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Autonomous)

01 April 2022

From
Dean,
Remedial school
GRIET.

To
The HOD
H&S
GRIET

Request for faculty to conduct Remedial classes.

Sir/Madam,

This is to inform you that the Remedial school of GRIET is conducting Remedial classes of through online mode for B. Tech I- year students to clear their backlogs. To conduct the classes, we request you to nominate faculty for each of the following subjects .

S.No	Course Title	No. of Students Having Backlog	Name of the Faculty	4-4-2022 (5.00PM to 6.00 PM)	5-4-2022 (5.00PM to 6.00 PM)	6-4-2022 (5.00PM to 6.00 PM)	7-4-2022 (5.00PM to 6.00 PM)	10-4-2022 (5.00PM to 6.00 PM)	11-4-2022 (5.00PM to 6.00 PM)
1	Linear Algebra and Differential Calculus	I Year – 125	M.V.Sreekanth Reddy	7-4-2022 (6.10PM to 7.10 PM)	8-4-2022 (6.10PM to 7.10 PM)	11-4-2022 (6.10PM to 7.10 PM)	12-4-2022 (6.10PM to 7.10 PM)	13-4-2022 (6.10PM to 7.10 PM)	14-4-2022 (6.10PM to 7.10 PM)
2	Data Structures	I Year – 233	Suresh	15-4-2022 (5.30PM to 6.30 PM)	16-4-2022 (5.30PM to 6.30 PM)	18-4-2022 (5.30PM to 6.30 PM)	19-4-2022 (5.30PM to 6.30 PM)	20-4-2022 (5.30PM to 6.30 PM)	21-4-2022 (5.30PM to 6.30 PM)
3	Applied Physics	I Year – 166	B.Shanthi Sree	15-4-2022 (5.30PM to 6.30 PM)	16-4-2022 (5.30PM to 6.30 PM)	23-4-2022 (5.30PM to 6.30 PM)	24-4-2022 (5.30PM to 6.30 PM)	25-4-2022 (5.30PM to 6.30 PM)	26-4-2022 (5.30PM to 6.30 PM)
4	Engineering Graphics	I Year – 272	Balaji	18-4-2022 (5.00PM to 6.30 PM)	19-4-2022 (5.00PM to 6.30 PM)	20-4-2022 (5.00PM to 6.30 PM)	21-4-2022 (5.00PM to 6.30 PM)		
5	Engineering Mechanics	I Year – 52	Ratnababu	15-4-2022 (5.30PM to 6.30 PM)	16-4-2022 (5.30PM to 6.30 PM)	18-4-2022 (5.30PM to 6.30 PM)	19-4-2022 (5.30PM to 6.30 PM)	20-4-2022 (5.30PM to 6.30 PM)	21-4-2022 (5.30PM to 6.30 PM)
6	Statistical Methods	I Year – 20	V.Vinay Kumar	22-4-2022 (5.30PM to 6.30 PM)	23-4-2022 (5.30PM to 6.30 PM)	25-4-2022 (5.30PM to 6.30 PM)	26-4-2022 (5.30PM to 6.30 PM)	27-4-2022 (5.30PM to 6.30 PM)	28-4-2022 (5.30PM to 6.30 PM)
7	Linear Algebra	I Year – 20	Dr. S.Ramamurthy	22-4-2022 (5.30PM to 6.30 PM)	23-4-2022 (5.30PM to 6.30 PM)	25-4-2022 (5.30PM to 6.30 PM)	26-4-2022 (5.30PM to 6.30 PM)	27-4-2022 (5.30PM to 6.30 PM)	28-4-2022 (5.30PM to 6.30 PM)
8	Differential Equations and Vector Calculus	I Year – 324	Ch.Phani Ramakrishna	22-4-2022 (5.30PM to 6.30 PM)	23-4-2022 (5.30PM to 6.30 PM)	25-4-2022 (5.30PM to 6.30 PM)	26-4-2022 (5.30PM to 6.30 PM)	27-4-2022 (5.30PM to 6.30 PM)	28-4-2022 (5.30PM to 6.30 PM)

(H&S-HOD)

Dean, Remedial School



Gokaraju Rangaraju Institute of Engineering and Technology

Remedial School

A.y:2021-22

Phase IV

Remedial Classes Schedule

1	Linear Algebra and Differential Calculus	M.V.Sreekanth Reddy	4-4-2022 (5.00PM to 6.00 PM)	5-4-2022 (5.00PM to 6.00 PM)	6-4-2022 (5.00PM to 6.00 PM)	7-4-2022 (5.00PM to 6.00 PM)	10-4-2022 (5.00PM to 6.00 PM)	11-4-2022 (5.00PM to 6.00 PM)
2	Data Structures	Suresh	7-4-2022 (6.10PM to 7.10 PM)	8-4-2022 (6.10PM to 7.10 PM)	11-4-2022 (6.10PM to 7.10 PM)	12-4-2022 (6.10PM to 7.10 PM)	13-4-2022 (6.10PM to 7.10 PM)	14-4-2022 (6.10PM to 7.10 PM)
3	Applied Physics	B.Shanthi Stree	15-4-2022 (5.30PM to 6.30 PM)	16-4-2022 (5.30PM to 6.30 PM)	18-4-2022 (5.30PM to 6.30 PM)	19-4-2022 (5.30PM to 6.30 PM)	20-4-2022 (5.30PM to 6.30 PM)	21-4-2022 (5.30PM to 6.30 PM)
4	Engineering Graphics	Balaji	15-4-2022 (5.30PM to 6.30 PM)	16-4-2022 (5.30PM to 6.30 PM)	23-4-2022 (5.30PM to 6.30 PM)	24-4-2022 (5.30PM to 6.30 PM)	25-4-2022 (5.30PM to 6.30 PM)	26-4-2022 (5.30PM to 6.30 PM)
5	Engineering Mechanics	Ratnababu	18-4-2022 (5.00PM to 6.30 PM)	19-4-2022 (5.00PM to 6.30 PM)	20-4-2022 (5.00PM to 6.30 PM)	21-4-2022 (5.00PM to 6.30 PM)		
6	Statistical Methods	V.Vinay Kumar	15-4-2022 (5.30PM to 6.30 PM)	16-4-2022 (5.30PM to 6.30 PM)	18-4-2022 (5.30PM to 6.30 PM)	19-4-2022 (5.30PM to 6.30 PM)	20-4-2022 (5.30PM to 6.30 PM)	21-4-2022 (5.30PM to 6.30 PM)
7	Linear Algebra	Dr. S.Ramamurthy	22-4-2022 (5.30PM to 6.30 PM)	23-4-2022 (5.30PM to 6.30 PM)	25-4-2022 (5.30PM to 6.30 PM)	26-4-2022 (5.30PM to 6.30 PM)	27-4-2022 (5.30PM to 6.30 PM)	28-4-2022 (5.30PM to 6.30 PM)
8	Differential Equations and Vector Calculus	Ch.Phani Ramakrishna	22-4-2022 (5.30PM to 6.30 PM)	23-4-2022 (5.30PM to 6.30 PM)	25-4-2022 (5.30PM to 6.30 PM)	26-4-2022 (5.30PM to 6.30 PM)	27-4-2022 (5.30PM to 6.30 PM)	28-4-2022 (5.30PM to 6.30 PM)

Dean-Remedial School

**RAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY**

Autonomous

Subject Name: Linear Algebra and Differential Calculus Faculty Name: M.V.Sreekanth Reddy

Roll No	04-04-2022	05-04-2022	06-04-2022	07-04-2022	10-04-2022	11-04-2022	Result
20241A0102	A	A	A	A	A	A	Fail
20241A0103	A	A	A	A	A	A	Fail
20241A0110	P	P	P	P	P	P	Pass
20241A0132	P	P	P	P	P	P	Pass
20241A0145	P	P	P	P	P	P	Pass
20241A0152	P	P	P	P	P	P	Pass
20241A0203	P	P	P	P	P	P	Pass
20241A0227	A	A	A	A	A	A	Fail
20241A0234	P	P	P	P	P	P	Pass
20241A0256	P	P	P	P	P	P	Pass
20241A0316	P	P	P	P	P	P	Pass
20241A0335	P	P	P	P	P	P	Pass
20241A0346	P	P	P	P	P	P	Pass
20241A0357	A	p	A	A	A	A	Fail
20241A0358	A	A	A	A	A	A	Fail
20241A0437	P	P	P	P	P	P	Pass
20241A0461	P	P	P	P	P	P	Pass
20241A04A3	A	A	A	A	A	A	Fail
20241A04E5	P	P	P	P	P	P	Pass
20241A04F3	P	P	P	P	P	P	Pass
20241A04N7	P	P	P	P	P	P	Pass
20241A04O1	P	P	P	P	P	P	Pass
20241A04Q9	P	P	P	P	P	P	Pass
20241A0558	P	P	P	P	P	P	Pass
20241A05A7	P	P	P	P	P	P	Pass
20241A05F0	P	P	P	P	P	P	Pass
20241A05G3	A	A	A	A	A	A	Fail
20241A05J3	A	P	P	P	P	P	Pass
20241A05N0	P	P	P	P	P	P	Pass
20241A05T6	P	P	P	P	P	P	Pass
20241A05T7	A	A	P	A	A	A	Fail
20241A05W3	P	A	P	P	P	P	Pass
20241A05Z8	P	P	P	P	P	P	Pass
20241A1203	A	A	A	A	A	A	Fail
20241A1231	A	A	P	A	A	A	Fail
20241A12A1	P	P	P	P	P	P	Pass
20241A12B5	P	P	P	P	P	P	Pass
20241A12F7	A	A	A	A	A	A	Fail
20241A12G5	A	A	A	A	A	A	Fail
20241A6621	P	P	P	P	P	P	Pass
20241A6623	P	P	P	P	P	P	Pass
20241A6624	A	A	A	A	A	A	Fail
20241A6632	P	A	P	P	P	P	Pass
20241A6650	P	P	P	P	P	P	Pass

Gokaraju Rangaraju Institute of Engineering and Technology
Remedial school

Faculty Report on Subject

I. LINEAR ALGEBRA AND DIFFERENTIAL CALCULUS

UNIT-I: VECTOR AND MATRIX ALGEBRA

Vector space (definition and examples), linear independence of vectors, orthogonality of vectors, projection of vectors, Gram-Schmidt orthonormalization of vectors

Symmetric, Hermitian, skew-symmetric, skew-Hermitian, orthogonal and unitary matrices; Rank of a matrix by echelon reduction, Solution of a linear algebraic system of equations (homogeneous and non-homogeneous)

UNIT-II: MATRIX EIGENVALUE PROBLEM AND QUADRATIC FORMS

Determination of eigenvalues and eigenvectors of a matrix, properties of eigenvalues and eigenvectors (without proof), diagonalization of a matrix, orthogonal diagonalization of symmetric matrices, Similarity of matrices

Quadratic forms: Definiteness and nature of a quadratic form, reduction of quadratic form to canonical forms by orthogonal transformation

UNIT-III: MATRIX DECOMPOSITION AND PSEUDO INVERSE OF A MATRIX

Spectral decomposition of a symmetric matrix, L-U decomposition, Q-R factorization, Singular value decomposition

Moore-Penrose pseudo inverse of a matrix, least squares solution of an over determined system of equations using pseudo inverse

UNIT-IV: MULTIVARIABLE DIFFERENTIAL CALCULUS AND FUNCTION OPTIMIZATION

Partial Differentiation: Total derivative. Jacobian; Functional dependence. Unconstrained optimization of functions using the Hessian matrix, constrained optimization using Lagrange multiplier method


UNIT-V: SINGLE VARIABLE CALCULUS

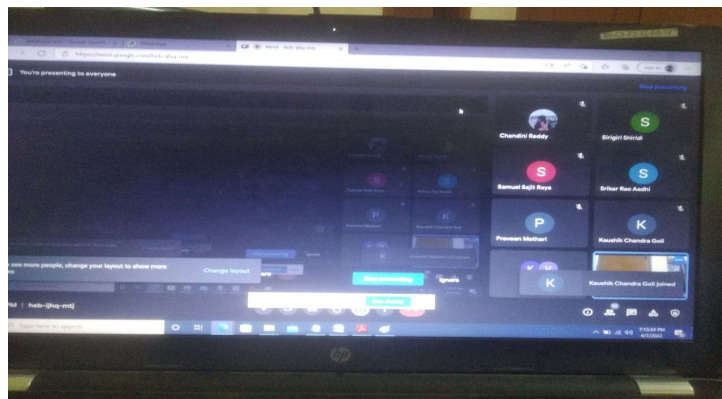
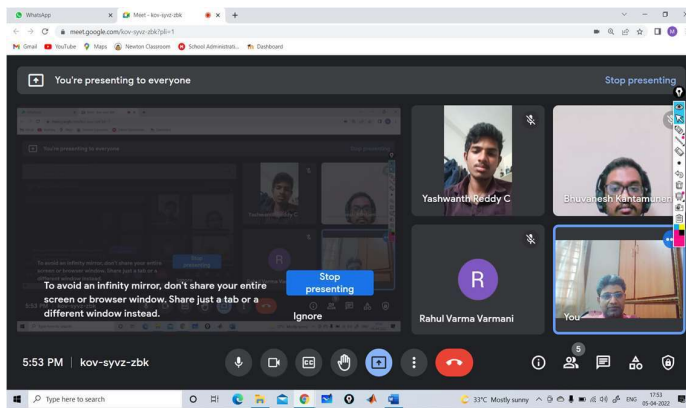
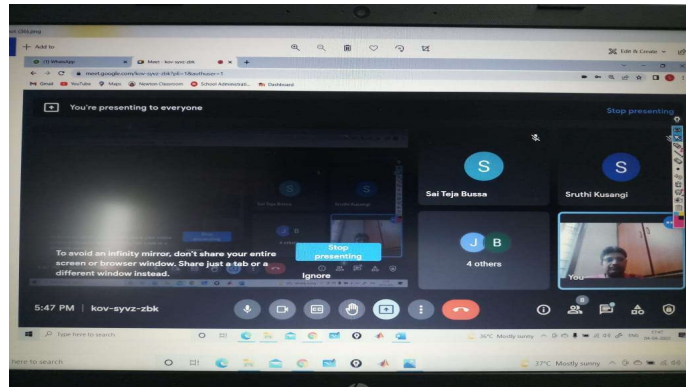
Mean value theorems: Rolle's Theorem, Lagrange's Mean value theorem and Taylor's theorem (without proof), their geometrical interpretation, approximation of a function by Taylor's series, Applications of definite integrals to evaluate surface areas and volumes of revolutions of curves (for Cartesian coordinates).

II. Previous Question Papers Discussed.

III. Material shared with the students.

IV. Classes are conducted for Doubts clarification.


1345





Gokaraju Rangaraju Institute of Engineering and Technology
Remedial School

Student's Feedback on Remedial classes

Branch:

Year: 2021-22

Semester:

Subject: Linear Algebra and Differential Calculus

Faculty Name: M.V.Sreekanth Reddy

S.No	Item	Feed back
1.	Material presented	Excellent
2.	Teaching Clarity	Very Good
3.	Coverage of important topics	Excellent
4.	Doubts clarification	Excellent

Suggestions: Nil

(H&S-HOD)

Dean, Remedial School

**GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY**

Autonomous

Subject Name: Data Structures

Faculty Name: Suresh

S.No	ROLL NO.	07-04-2022	08-04-2022	11-04-2022	12-04-2022	13-04-2022	14-04-2022	Result
1	20241A0101	P	P	P	P	P	P	Pass
2	20241A0102	F	F	F	F	F	F	Fail
3	20241A0110	F	F	F	F	F	F	Fail
4	20241A0112	P	P	P	P	P	P	Pass
5	20241A0132	P	P	P	P	P	P	Pass
6	20241A0145	P	P	P	P	P	P	Pass
7	20241A0152	P	P	P	P	P	P	Pass
8	20241A0214	P	P	P	P	P	P	Pass
9	20241A0227	P	P	P	P	P	P	Pass
10	20241A0237	P	P	P	P	P	P	Pass
11	20241A0247	F	F	F	F	F	F	Fail
12	20241A0255	F	F	F	F	F	F	Fail
13	20241A0256	P	P	P	P	P	P	Pass
14	20241A0302	F	F	F	F	F	F	Fail
15	20241A0316	P	P	P	P	P	P	Pass
16	20241A0317	P	P	P	P	P	P	Pass
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18	20241A0327	P	P	P	P	P	P	Pass
19	20241A0328	P	P	P	P	P	P	Pass
20	20241A0336	P	P	P	P	P	P	Pass
21	20241A0348	F	F	F	F	F	F	Fail
22	20241A0349	P	P	P	P	P	P	Pass
23	20241A0404	P	P	P	P	P	P	Pass
24	20241A0406	F	F	F	F	F	F	Fail
25	20241A0471	P	P	P	P	P	P	Pass
26	20241A0473	P	P	P	P	P	P	Pass
27	20241A0486	P	P	P	P	P	P	Pass
28	20241A0492	P	P	P	P	P	P	Pass
29	20241A0493	P	P	P	P	P	P	Pass
30	20241A0499	P	P	P	P	P	P	Pass
31	20241A04A3	P	P	P	P	P	P	Pass
32	20241A04A9	P	P	P	P	P	P	Pass
33	20241A04B1	P	P	P	P	P	P	Pass
34	20241A04B2	P	P	P	P	P	P	Pass
35	20241A04H6	P	P	P	P	P	P	Pass
36	20241A04H7	P	P	P	P	P	P	Pass
37	20241A04S3	F	F	F	F	F	F	Fail
38	20241A04S9	P	P	P	P	P	P	Pass
39	20241A04T2	P	P	P	P	P	P	Pass
40	20241A04T4	P	P	P	P	P	P	Pass
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53	20241A05F9	P	P	P	P	P	P	Pass
54	20241A05G1	P	P	P	P	P	P	Pass
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56	20241A05J3	P	P	P	P	P	P	Pass

57	20241A05J6	P	P	P	P	P	P	Pass
58	20241A05L7	P	P	P	P	P	P	Pass
59	20241A05M5	P	P	P	P	P	P	Pass
60	20241A05M8	P	P	P	P	P	P	Pass
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64	20241A05V3	P	P	P	P	P	P	Pass
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66	20241A05X6	P	P	P	P	P	P	Pass
67	20241A05X7	P	P	P	P	P	P	Pass
68	20241A05X9	P	P	P	P	P	P	Pass
69	20241A05Y0	P	P	P	P	P	P	Pass
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72	20241A05Z5	P	P	P	P	P	P	Pass
73	20241A05Z6	P	P	P	P	P	P	Pass
74	20241A05Z8	F	F	F	F	F	F	Fail
75	20241A05Z9	F	F	F	F	F	F	Fail
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84	20241A12E6	P	P	P	P	P	P	Pass
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89	20241A6650	P	P	P	P	P	P	Pass
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91	20241A6659	F	F	F	F	F	F	Fail
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93	20241A6708	P	P	P	P	P	P	Pass
94	20241A6715	P	P	P	P	P	P	Pass
95	20241A6718	P	P	P	P	P	P	Pass
96	20241A6719	F	F	F	F	F	F	Fail
97	20241A6727	P	P	P	P	P	P	Pass
98	20241A6728	P	P	P	P	P	P	Pass
99	20241A6751	P	P	P	P	P	P	Pass

GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY

DATA STRUCTURES

Course Code: GR22A1012
I Year II Semester

L/T/P/C:2/1/0/3

UNIT I

Algorithms and Complexities: Analysis of algorithms, Basic concept of order of complexity, Asymptotic Notations: Big Oh notation, Omega notation, Theta notation, little oh notation and little omega notation.

Sorting: Bubble sort, Insertion Sort, Selection Sort, Quick Sort, Merge Sort, Radix Sort, Counting sort.

UNIT II

Stacks: Introduction to Data Structures and types, Stack – Operations: pop, push, display, peek, Representation and Implementation of stack operations using arrays, stack applications, recursion, infix to postfix transformation, evaluating postfix expressions.

Queues: Queue – Operations: enqueue, dequeue, display, representation and implementation of queue operations using array, applications of queues, circular queues - representation and implementation.

UNIT III

LIST: Introduction, dynamic memory allocation, self-referential structures, single linked list, advantages and disadvantages of single linked list, single linked list vs arrays, representation of a linked list in memory, operations-insertion, deletion, display, search.

Types and applications: Circular linked list, double linked list, implementation of stack, queue using linked list.

UNIT IV

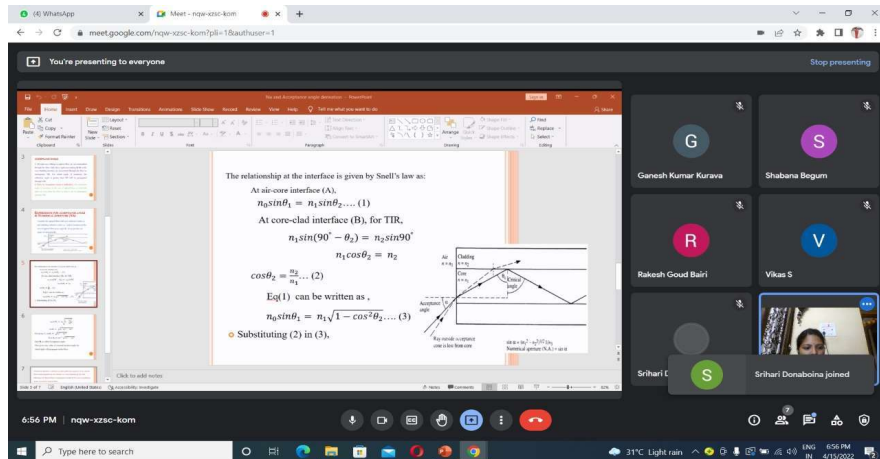
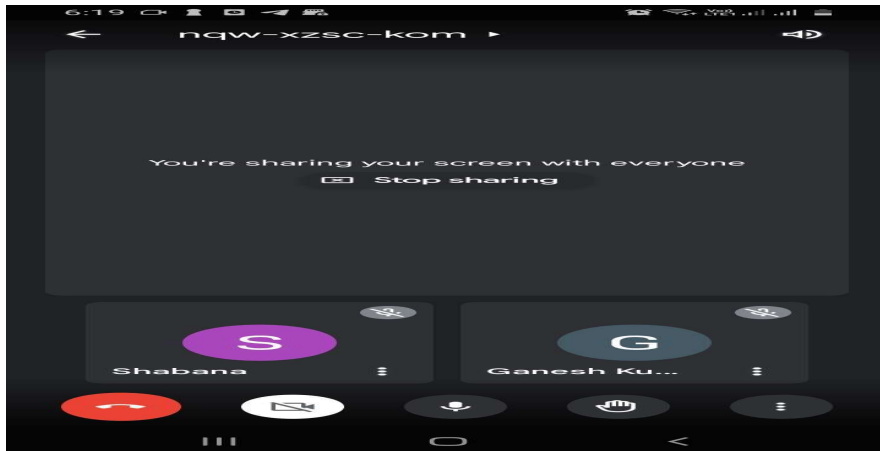
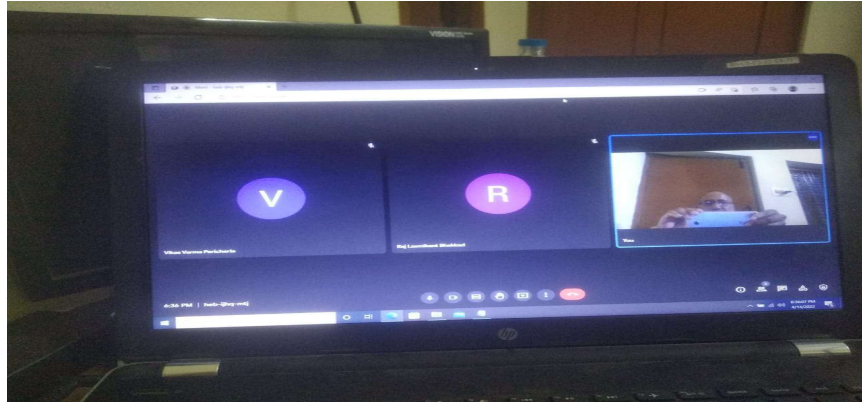
Trees: Basic tree concepts, Binary trees: properties, types, representation of binary trees using arrays and linked lists, traversals of binary tree.

Binary Search Tree –Representation and Implementation of operations, Binary Search Tree Traversals (recursive), creation of binary tree and BST from given traversals.

UNIT V

Graphs: Definition, basic terminology, representation of graphs, graph traversal techniques –Breadth First Traversal, Depth First Traversal.

Hashing - Introduction to hashing, hash function and types, hash table, implementation, collision resolution techniques–separate chaining, linear probing, quadratic probing, double hashing (only examples – no implementation).





Gokaraju Rangaraju Institute of Engineering and Technology
Remedial School

Student's Feedback on Remedial classes

Branch: Data Structures **Year: 2021-22** **Semester:**
Subject: Data Structures **Faculty Name:** Suresh

S.No	Item	Feed back
1.	Material presented	Excellent
2.	Teaching Clarity	Very Good
3.	Coverage of important topics	Excellent
4.	Doubts clarification	Excellent

Suggestions: Nil

(H&S-HOD)

Dean, Remedial School

**GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY**

Autonomous

Subject Name: Applied Physics

Faculty Name: B.Shanthi Sree

S.No	ROLL NO.	15-04-2022	16-04-2022	18-04-2022	19-04-2022	20-04-2022	21-04-2022	Result
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2	20241A0217	P	P	P	P	P	P	Pass
3	20241A0227	F	F	F	F	F	F	Fail
4	20241A0228	F	F	F	F	F	F	Fail
5	20241A0239	P	P	P	P	P	P	Pass
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15	20241A0428	P	P	P	P	P	P	Pass
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33	20241A04D5	P	P	P	P	P	P	Pass
34	20241A04D6	P	P	P	P	P	P	Pass
35	20241A04D9	P	P	P	P	P	P	Pass
36	20241A04E4	P	P	P	P	P	P	Pass
37	20241A04E6	P	P	P	P	P	P	Pass
38	20241A04F0	P	P	P	P	P	P	Pass
39	20241A04F4	P	P	P	P	P	P	Pass
40	20241A04F6	P	P	P	P	P	P	Pass
41	20241A04G1	P	P	P	P	P	P	Pass
42	20241A04G6	P	P	P	P	P	P	Pass
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47	20241A04H8	P	P	P	P	P	P	Pass
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49	20241A04I7	P	P	P	P	P	P	Pass
50	20241A04J6	P	P	P	P	P	P	Pass
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66	20241A05Z8	F	F	F	F	F	F	Fail
67	20241A1209	P	P	P	P	P	P	Pass
68	20241A1217	P	P	P	P	P	P	Pass
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70	20241A1249	P	P	P	P	P	P	Pass
71	20241A1251	P	P	P	P	P	P	Pass
72	20241A1258	P	P	P	P	P	P	Pass
73	20241A1262	P	P	P	P	P	P	Pass
74	20241A1263	P	P	P	P	P	P	Pass
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80	20241A12C4	P	P	P	P	P	P	Pass
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82	20241A12E9	P	P	P	P	P	P	Pass
83	20241A12F7	P	P	P	P	P	P	Pass
84	20241A12G3	P	P	P	P	P	P	Pass
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86	20241A6650	P	P	P	P	P	P	Pass
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90	20241A6724	P	P	P	P	P	P	Pass
91	20241A6730	F	F	F	F	F	F	Fail
92	20241A6750	P	P	P	P	P	P	Pass

GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Remedial School

Faculty Report on Subject

Applied Physics

UNIT I

Quantum Mechanics: Introduction, Black body radiation, Planck's law, Photoelectric effect- Einstein's Photoelectric equation, Compton effect (Qualitative), Wave-Particle duality, de Broglie hypothesis, Davisson and Germer experiment, Heisenberg's uncertainty principle, Born's interpretation of the wave function, Schrodinger's time independent wave equation, Particle in one dimensional infinite potential box.

UNIT II

Semiconductor Physics: Intrinsic and extrinsic semiconductors, Estimation of carrier concentration, Dependence of Fermi level on carrier concentration and variation with temperature, Carrier transport: diffusion and drift, Hall Effect, p-n junction diode: I-V Characteristics, Zener diode: I-V Characteristics, Bipolar Junction Transistor (BJT): Construction and principle of operation (n-p-n and p-n-p) in common base configuration.

UNIT III

Optoelectronics: Radiative transitions: Absorption, Spontaneous and Stimulated emission, Non-radiative transitions: Auger recombination, Surface recombination and recombination at defects, Generation and recombination mechanism in semiconductors, LED and Semiconductor lasers: Device structure, Materials, Characteristics, Semiconductor photo-detectors: PIN and Avalanche detectors and their structure, Materials, Working principle and Characteristics, Solar cell: Structure and Characteristics.

UNIT IV

Lasers: Introduction, Characteristics of lasers, Einstein coefficients, Resonating cavity, Active medium- Meta stable state, Pumping, Population inversion, Construction and working of Ruby laser and He-Ne laser, Applications of lasers.

Fiber Optics: Introduction, Principle and Structure of an optical fiber, Basic components in optical fiber communication system, Comparison of optical fibers over conventional cables, Acceptance angle- Numerical aperture, Types of optical fibers, Losses associated with optical fibers, Applications of optical fibers.

UNIT V

Dielectric Materials: Introduction, Types of polarizations (Electronic, Ionic and Orientational Polarizations) and calculation of Electronic and Ionic polarizability.

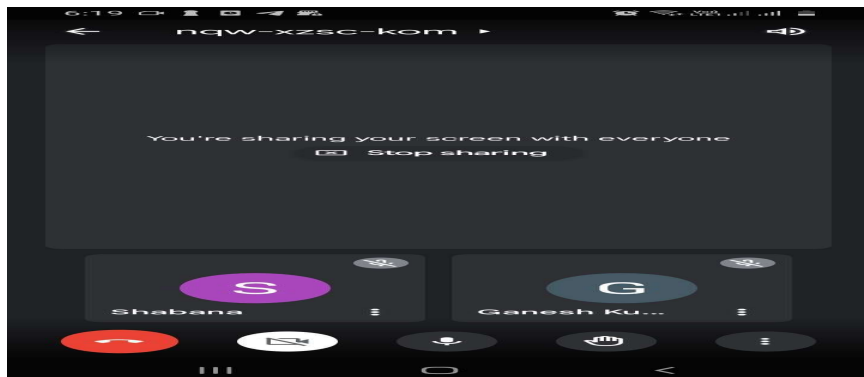
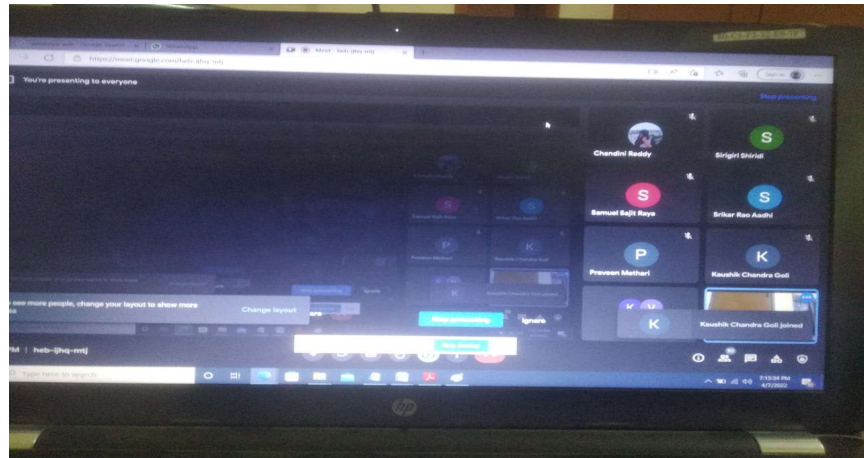
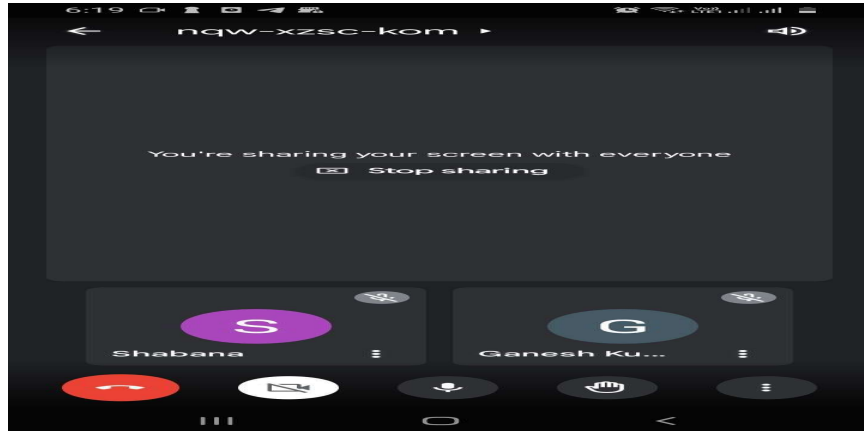
Magnetic Materials: Introduction, Bohr magneton, classification of dia, para and ferro magnetic materials on the basis of magnetic moment, Hysteresis curve based on domain theory, Soft and hard magnetic materials, Properties of anti-ferro and ferri magnetic materials.

Superconducting materials: Introduction to superconductors, General properties, Meissner effect, Type I and Type II superconductors, Applications of superconducting materials.

II. Previous Question Papers Discussed

III. Material Shared with Students

IV. Classes are Conducted for Doubts Clarifications





Gokaraju Rangaraju Institute of Engineering and Technology

Remedial School

Student's Feedback on Remedial classes

Branch:

Applied Physics

Year: 2021-22

Semester:

Faculty Name: B.Shanthi Sree

S.No	Item	Feed back
1.	Material presented	Excellent
2.	Teaching Clarity	Very Good
3.	Coverage of important topics	Excellent
4.	Doubts clarification	Excellent

Suggestions: Nil

(H&S-HOD)

Dean, Remedial School

**GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY**

Autonomous

Subject Name: Engineering Graphics

Faculty Name: Balaji

S.No	ROLL NO.	15-04-2022	16-04-2022	23-04-2022	24-04-2022	25-04-2022	26-04-2022	Result
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4	20241A0105	P	P	P	P	P	P	Pass
5	20241A0139	F	F	F	F	F	F	Fail
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8	20241A0151	P	P	P	P	P	P	Pass
9	20241A0153	P	P	P	P	P	P	Pass
10	20241A0201	P	P	P	P	P	P	Pass
11	20241A0202	P	P	P	P	P	P	Pass
12	20241A0207	P	P	P	P	P	P	Pass
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21	20241A0237	P	P	P	P	P	P	Pass
22	20241A0238	P	P	P	P	P	P	Pass
23	20241A0242	P	P	P	P	P	P	Pass
24	20241A0250	P	P	P	P	P	P	Pass
25	20241A0252	P	P	P	P	P	P	Pass
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27	20241A0302	F	F	F	F	F	F	Fail
28	20241A0303	P	P	P	P	P	P	Pass
29	20241A0305	P	P	P	P	P	P	Pass
30	20241A0309	F	F	F	F	F	F	Fail
31	20241A0320	F	F	F	F	F	F	Fail
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43	20241A0424	F	F	F	F	F	F	Fail
44	20241A0426	P	P	P	P	P	P	Pass
45	20241A0436	P	P	P	P	P	P	Pass
46	20241A0438	P	P	P	P	P	P	Pass
47	20241A0439	P	P	P	P	P	P	Pass
48	20241A0443	P	P	P	P	P	P	Pass
49	20241A0461	P	P	P	P	P	P	Pass
50	20241A0466	P	P	P	P	P	P	Pass
51	20241A0468	P	P	P	P	P	P	Pass
52	20241A0472	P	P	P	P	P	P	Pass
53	20241A0473	P	P	P	P	P	P	Pass
54	20241A0488	P	P	P	P	P	P	Pass
55	20241A0489	P	P	P	P	P	P	Pass
56	20241A0492	P	P	P	P	P	P	Pass

57	20241A0493	P	P	P	P	P	P	Pass
58	20241A04A2	P	P	P	P	P	P	Pass
59	20241A04A3	P	P	P	P	P	P	Pass
60	20241A04A5	P	P	P	P	P	P	Pass
61	20241A04A9	P	P	P	P	P	P	Pass
62	20241A04B2	P	P	P	P	P	P	Pass
63	20241A04D2	P	P	P	P	P	P	Pass
64	20241A04D6	P	P	P	P	P	P	Pass
65	20241A04E4	P	P	P	P	P	P	Pass
66	20241A04E6	P	P	P	P	P	P	Pass
67	20241A04F0	P	P	P	P	P	P	Pass
68	20241A04F3	P	P	P	P	P	P	Pass
69	20241A04F4	P	P	P	P	P	P	Pass
70	20241A04G1	P	P	P	P	P	P	Pass
71	20241A04G9	P	P	P	P	P	P	Pass
72	20241A04H1	F	F	F	F	F	F	Fail
73	20241A04H9	F	F	F	F	F	F	Fail
74	20241A04M3	P	P	P	P	P	P	Pass
75	20241A0575	F	F	F	F	F	F	Fail
76	20241A05C8	F	F	F	F	F	F	Fail
77	20241A05G7	F	F	F	F	F	F	Fail
78	20241A05J3	P	P	P	P	P	P	Pass
79	20241A05J5	P	P	P	P	P	P	Pass
80	20241A05J9	P	P	P	P	P	P	Pass
81	20241A05N0	P	P	P	P	P	P	Pass
82	20241A05P5	P	P	P	P	P	P	Pass
83	20241A05P9	P	P	P	P	P	P	Pass
84	20241A05Q1	P	P	P	P	P	P	Pass
85	20241A05Q2	P	P	P	P	P	P	Pass
86	20241A05T6	P	P	P	P	P	P	Pass
87	20241A05T7	P	P	P	P	P	P	Pass
88	20241A05W2	P	P	P	P	P	P	Pass
89	20241A05Z1	P	P	P	P	P	P	Pass
90	20241A1222	P	P	P	P	P	P	Pass
91	20241A1224	P	P	P	P	P	P	Pass
92	20241A1227	P	P	P	P	P	P	Pass
93	20241A1267	F	F	F	F	F	F	Fail
94	20241A1268	F	F	F	F	F	F	Fail
95	20241A1273	F	F	F	F	F	F	Fail
96	20241A1293	P	P	P	P	P	P	Pass
97	20241A12B6	F	F	F	F	F	F	Fail
98	20241A12C1	F	F	F	F	F	F	Fail
99	20241A12C9	P	P	P	P	P	P	Pass
100	20241A12D3	P	P	P	P	P	P	Pass
101	20241A12E5	F	F	F	F	F	F	Fail
102	20241A12H0	P	P	P	P	P	P	Pass
103	20241A12H6	P	P	P	P	P	P	Pass
104	20241A6621	P	P	P	P	P	P	Pass
105	20241A6623	P	P	P	P	P	P	Pass
106	20241A6632	P	P	P	P	P	P	Pass
107	20241A6650	P	P	P	P	P	P	Pass
108	20241A6658	F	F	F	F	F	F	Fail
109	20241A6659	P	P	P	P	P	P	Pass
110	20241A6701	P	P	P	P	P	P	Pass
111	20241A6708	P	P	P	P	P	P	Pass
112	20241A6715	P	P	P	P	P	P	Pass
113	20241A6719	P	P	P	P	P	P	Pass
114	20241A6727	P	P	P	P	P	P	Pass



Ramavath Alivela

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Connecting t... ..

Ramavath Alivela



Participants (5)



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Ramavath Alivela



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GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Remedial School

Faculty Report on Subject

Engineering Graphics

Unit I

Introduction to Engineering Graphics: Principles of Engineering Graphics and their Significance; **Conic Sections-** ellipse, parabola and hyperbola – General method only. **Cycloidal curves** –cycloid, epi-cycloid and hypo-cycloid; **Scales**– plain and diagonal.

Unit II

Projections of Points, Lines and Planes: Introduction to principal planes of projections, **Projections of the points** located in same quadrant and different quadrants, **Projections of line** with its inclination to one reference plane and with two reference planes. True length and inclination with the reference planes. **Projections of regular planes** (polygons, circle and Square etc.,) with its inclination to one reference plane and with two reference planes, Concept of auxiliary plane method for projections of the plane.

Unit III

Projections of solids (regular and right solids only) - Classification of solids, Projections of solids (Cylinder, Cone, Pyramid and Prism) **Intersection of solids** – concept of lines of intersection and curves of intersection, intersection of solids (Prism Vs Prism and Cylinder Vs Cylinder) with their axes perpendicular to each other.

Unit IV

Section of solids – Sectional views of solids (Cylinder, Cone, Pyramid and Prism) and the true shape of the section, **Development of surfaces-** Development of surfaces of solids (Cylinder, Cone, Pyramid and Prism).

Unit V

Orthographic Projections: Fundamental of projection along with classification, Projections from the pictorial view of the object on the principal planes for view from front, top and sides using first angle projection method and third angle projection method;

Isometric Projections and Isometric View: Principles of Isometric Projection – Isometric Scale – Isometric Views –Conventions – Isometric Views of Lines, Plane Figures, Simple and Compound Solids – Isometric Projection of objects having non- isometric lines. Isometric Projection of Spherical Parts, Conversion of Isometric Views to Orthographic Views and Vice-versa –Conventions

II. Previous Question Papers Discussed

III. Material Shared with Students

IV. Classes are Conducted for Doubts Clarifications



Gokaraju Rangaraju Institute of Engineering and Technology
Remedial School

Student's Feedback on Remedial classes

Branch: Engineering Graphics **Year: 2021-22** **Semester:**
Subject: Engineering Graphics **Faculty Name:** Balaji

S.No	Item	Feed back
1.	Material presented	Excellent
2.	Teaching Clarity	Very Good
3.	Coverage of important topics	Excellent
4.	Doubts clarification	Excellent

Suggestions: Nil

(H&S-HOD)

Dean, Remedial School

**GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY**

Autonomous

Subject Name: Engineering Mechanics

Faculty Name: Ratnababu

S.No	ROLL NO.	18-04-2022	19-04-2022	20-04-2022	21-04-2022	Result
1	20241A0101	P	P	P	P	Pass
2	20241A0102	F	F	F	F	Fail
3	20241A0103	F	F	F	F	Fail
4	20241A0105	F	F	F	F	Fail
5	20241A0106	F	F	F	F	Fail
6	20241A0107	F	F	F	F	Fail
7	20241A0108	F	F	F	F	Fail
8	20241A0109	P	P	P	P	Pass
9	20241A0110	F	F	F	F	Fail
10	20241A0112	P	P	P	P	Pass
11	20241A0114	F	F	F	F	Fail
12	20241A0120	P	P	P	P	Pass
13	20241A0121	P	P	P	P	Pass
14	20241A0126	F	F	F	F	Fail
15	20241A0128	P	P	P	P	Pass
16	20241A0130	F	F	F	F	Fail
17	20241A0133	F	F	F	F	Fail
18	20241A0135	P	P	P	P	Pass
19	20241A0138	P	P	P	P	Pass
20	20241A0139	F	F	F	F	Fail
21	20241A0141	F	F	F	F	Fail
22	20241A0145	P	P	P	P	Pass
23	20241A0147	P	P	P	P	Pass
24	20241A0148	P	P	P	P	Pass
25	20241A0151	F	F	F	F	Fail
26	20241A0152	P	P	P	P	Pass
27	20241A0153	P	P	P	P	Pass
28	20241A0156	P	P	P	P	Pass
29	20241A0159	P	P	P	P	Pass
30	20241A0160	P	P	P	P	Pass
31	20241A0302	F	F	F	F	Fail
32	20241A0303	P	P	P	P	Pass
33	20241A0305	P	P	P	P	Pass
34	20241A0309	F	F	F	F	Fail
35	20241A0315	P	P	P	P	Pass
36	20241A0316	P	P	P	P	Pass
37	20241A0317	P	P	P	P	Pass
38	20241A0319	P	P	P	P	Pass
39	20241A0320	F	F	F	F	Fail
40	20241A0321	F	F	F	F	Fail
41	20241A0322	F	F	F	F	Fail
42	20241A0327	P	P	P	P	Pass
43	20241A0334	F	F	F	F	Fail
44	20241A0335	P	P	P	P	Pass
45	20241A0336	P	P	P	P	Pass
46	20241A0339	F	F	F	F	Fail
47	20241A0344	P	P	P	P	Pass
48	20241A0348	F	F	F	F	Fail

49	20241A0349	P	P	P	P	Pass
50	20241A0354	P	P	P	P	Pass
51	20241A0357	P	P	P	P	Pass
52	20241A0358	P	P	P	P	Pass

ENGINEERING MECHANICS

Course Code: GR22A1010
I Year II Semester

L/T/P/C: 3/1/0/4

Course Objectives

1. Explain the resolution of a system of forces, compute their resultant and solve problems using equations of equilibrium.
2. Perform analysis of bodies lying on rough surfaces.
3. Locate the centroid of a body and compute the area moment of inertia and mass moment of inertia of standard and composite sections.
4. Determine the forces in the members of the trusses.
5. Explain the concepts of work-energy method, impulse-momentum and its applications to translation, rotation and plane motion.

Course Outcomes

1. Determine resultant of forces acting on a body and analyze equilibrium of a body subjected to a system of forces.
2. Solve problem of bodies subjected to friction.
3. Find the location of centroid and calculate moment of inertia of a given section.
4. Determine the forces in the members of the trusses
5. Solve problems using work energy equations for translation, fixed axis rotation and plane motion of rigid bodies.

UNIT I

INTRODUCTION TO ENGINEERING MECHANICS - FORCE SYSTEMS

Basic concepts, Particle equilibrium in 2-D & 3-D; Rigid Body equilibrium; System of Forces, Coplanar Concurrent Forces, Components in Space – Resultant- Moment of Forces and its Application; Couples and Resultant of Force System, Equilibrium of System of Forces, Free body diagrams, Equations of Equilibrium of Coplanar Systems ; Static Indeterminacy

UNIT II

FRICTION:Types of friction, Limiting friction, Laws of Friction, Static and Dynamic Friction; Motion of Bodies, wedge friction, screw Centroid and Centre of Gravity-Centroid of Lines, Areas and Volumes from first principle, centroid of composite sections; Centre of Gravity and its Implications.

UNIT III

AREA MOMENT OF INERTIA: Definition, Moment of inertia of plane sections from first principles, Theorems of moment of inertia, Moment of inertia of standard sections and composite sections; Product of Inertia, Parallel Axis Theorem, Perpendicular Axis Theorem, Mass Moment of Inertia , Inertia of Masses - Transfer Formula for Mass Moments of Inertia – Mass moment of inertia of composite bodies.

UNIT IV

ANALYSIS OF TRUSSES: Introduction, Classification of trusses, Assumptions made in the analysis of perfect truss, Methods of Analysis of Trusses- Method of Joints and Method of Sections. Principle of Virtual Work: Equilibrium of ideal systems, efficiency of simple

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machines, stable and unstable equilibriums.

UNIT V

REVIEW OF PARTICLE DYNAMICS: Rectilinear motion, Plane curvilinear motion (rectangular, path, and polar coordinates). 3-D curvilinear motion, Relative and constrained motion; Newton's 2nd law (rectangular, path, and polar coordinates). Work- kinetic energy, power, potential energy. Impulse-momentum (linear, angular), Impact (Direct and oblique).





Gokaraju Rangaraju Institute of Engineering and Technology
Remedial School

Student's Feedback on Remedial classes

Branch: Engineering Mechanics **Year: 2021-22** **Semester:**
Subject: Engineering Mechanics **Faculty Name:** Ratnababu

S.No	Item	Feed back
1.	Material presented	Excellent
2.	Teaching Clarity	Very Good
3.	Coverage of important topics	Excellent
4.	Doubts clarification	Excellent

Suggestions: Nil

(H&S-HOD)

Dean, Remedial School

**GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY****Autonomous****Subject Name: SM****Faculty Name: V.Vinay Kumar**

S.No	ROLL NO.	15-04-2022	16-04-2022	18-04-2022	19-04-2022	20-04-2022	21-04-2022	Result
1	20241A3203	P	P	P	P	P	P	Pass
2	20241A3205	P	P	P	P	P	P	Pass
3	20241A3208	A	P	P	P	P	P	Pass
4	20241A3224	P	P	P	P	P	P	Pass
5	20241A3225	P	P	P	P	P	P	Pass
6	20241A3234	P	P	P	P	P	P	Pass
7	20241A3236	P	P	P	P	P	P	Pass
8	20241A3247	P	P	A	P	P	P	Pass
9	20241A3248	P	P	P	P	P	P	Pass
10	20241A3250	P	P	P	P	P	P	Pass
11	20241A3251	P	P	P	P	P	P	Pass
12	20241A3254	P	P	P	P	P	A	Pass
13	20241A3258	P	P	P	P	P	P	Pass
14	20241A3260	P	P	P	P	P	P	Fail

GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY

STATISTICAL METHODS

Course Code: GR22AI034
I Year II Semester

L/T/P/C: 3/ 0/ 0/ 3

Pre-requisites: Elementary statistics and Linear algebra

Course Objectives

1. Make use of sampling distribution techniques to establish results from small samples of a comparatively larger population
2. Understand statistical estimation theory
3. Understand parametric and non-parametric procedures to infer from large and small samples about the underlying population
4. Distinguish between explanatory and response variables and analyze data using correlation and regression
5. Employ tools for the analysis of time series data

Course Outcomes

1. Apply sampling distribution techniques
2. Apply statistical estimation methods
3. Apply Inferential Statistics to make predictions or judgments about the population from which the sample data is drawn.
4. Forecast using Regression analysis models
5. Interpret data using Time series analysis

UNIT-I

Sampling and Estimation

Sampling Techniques: Random sampling. Sampling from finite and infinite populations. Sampling distribution and Standard error (sampling with and without replacements), Sampling distribution of sample mean.

Estimation: Concepts of Point and interval estimation, criteria for good estimates (un-biasedness, consistency and Sufficiency) and applications. Estimation of parameters of Binomial, Poisson, Exponential and Normal distributions using Maximum Likelihood Estimation.

UNIT-II

Testing of hypothesis (parametric Inference)

Concept and formulation, Type I and Type II errors.

Procedures of Parametric testing of Single and two population means in small and large samplings, Single and two population Proportions in large sampling, Analysis of variance : one- way and two- way classifications.

UNIT-III

Testing of hypothesis (Non-parametric Inference)

Comparison with parametric inference, Use of order statistics. Sign test, Wilcoxon signed rank test, Mann-Whitney test, Run test, Kolmogorov-Smirnov test, Kendall's test.

UNIT-IV

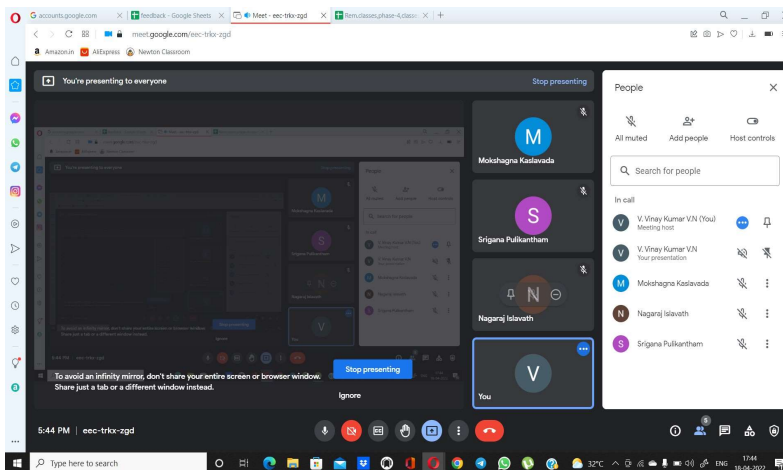
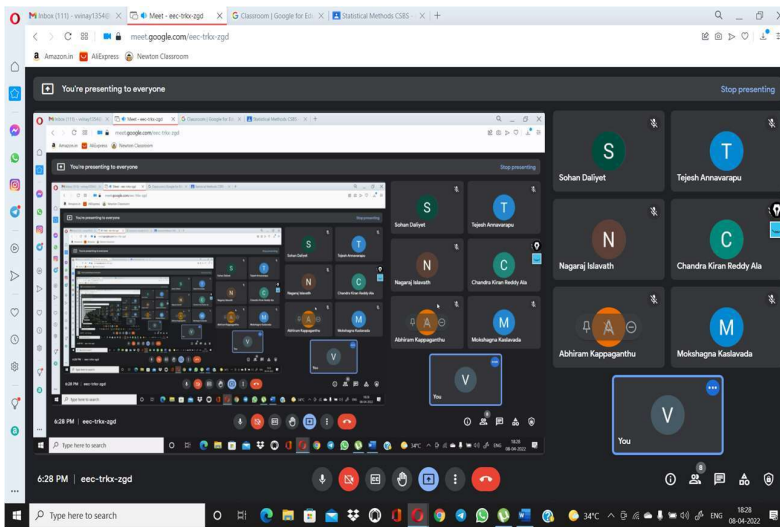
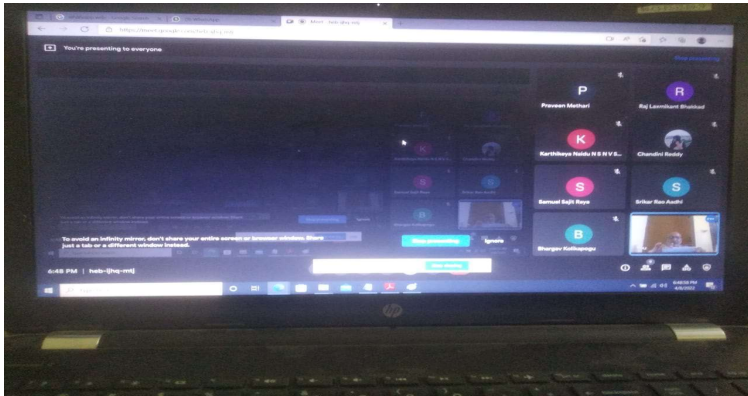
Linear Statistical Models

Correlation (Karl-Pearson's correlation coefficient and Spearman's Rank correlation (Statements of their properties and problems)), Simple and Multiple Linear Regression of three variables (Statements of properties of Regression coefficients and problems), Residual Analysis and Concept of Multicollinearity

UNIT-V

Time Series

Components of Time series, Additive and Multiplicative models of Decomposition of Time series, Estimation of trend by method of Moving averages, fitting of various mathematical curves (Straight line and Second-degree parabola) and Estimation of seasonal component by Ratio to Trend method and Ratio to Moving averages method, Stationary, ARIMA Model: Identification, Estimation and Forecasting.





Gokaraju Rangaraju Institute of Engineering and Technology
Remedial School

Student's Feedback on Remedial classes

Branch: Statistical Methods **Year: 2021-22** **Semester:**

Subject: Statistical Methods **Faculty Name:** V. Vinay Kumar

S.No	Item	Feed back
1.	Material presented	Excellent
2.	Teaching Clarity	Very Good
3.	Coverage of important topics	Excellent
4.	Doubts clarification	Excellent

Suggestions: Nil

(H&S-HOD)

Dean, Remedial School

**GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY****Autonomous****Subject Name: Linear Algebra****Faculty Name: Dr. S.Ramamurthy**

S.No	ROLL NO.	22-04-2022	23-04-2022	25-04-2022	26-04-2022	27-04-2022	28-04-2022	Result
1	20241A3202	P	P	P	P	P	P	Pass
2	20241A3203	P	P	P	P	P	P	Pass
3	20241A3208	P	P	P	P	P	P	Pass
4	20241A3209	P	P	P	P	P	P	Pass
5	20241A3217	P	P	P	P	P	P	Pass
6	20241A3224	F	F	F	F	F	F	Fail
7	20241A3227	F	F	F	F	F	F	Fail
8	20241A3229	F	F	F	F	F	F	Fail
9	20241A3232	P	P	P	P	P	P	Pass
10	20241A3234	P	P	P	P	P	P	Pass
11	20241A3244	P	P	P	P	P	P	Pass
12	20241A3247	P	P	P	P	P	P	Pass
13	20241A3248	P	P	P	P	P	P	Pass
14	20241A3249	P	P	P	P	P	P	Pass
15	20241A3250	P	P	P	P	P	P	Pass
16	20241A3251	P	P	P	P	P	P	Pass
17	20241A3258	P	P	P	P	P	P	Pass
18	20241A3260	F	F	F	F	F	F	Fail

GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY

LINEAR ALGEBRA

Course Code: GR22A1033
I Year II Semester

L/T/P/C: 3/1/0/4

Course Pre-Requisites: Elementary knowledge of vectors, matrices and pre-calculus

COURSE OBJECTIVES

1. Understand the purpose behind computation of rank, Gaussian elimination, inverse and generalized inverse of a matrix
2. Interpret vector spaces and subspaces and explore their properties
3. Utilize the concept of latent values of a matrix and explore various matrix factorization procedures
4. Discuss exact and approximate solutions of systems of linear algebraic equations
5. Learn the procedures of SVD and PCA and apply to some problems arising in engineering

COURSE OUTCOMES

1. Determine the inverse, generalized inverse and rank of a matrix.
2. Interpret vector spaces and subspaces and apply their properties.
3. Determine the eigenvalues and eigenvectors of a square matrix and perform matrix factorization
4. Solve a system of linear algebraic equations for an exact or approximate solutions
5. Perform SVD, PCA and apply them to some problems in engineering

UNIT-I

FUNDAMENTALS OF VECTOR AND MATRIX ALGEBRA

Operations on vectors and matrices- Structured square matrices (Symmetric, skew symmetric, orthogonal, Hermitian, skew Hermitian and unitary matrices)- Their properties- Exact and Generalized inverse of a matrix

Determinant of a matrix- Rank of a matrix- Linear independence of vectors- Orthogonal projection of vectors

UNIT-II

VECTOR SPACES

Definition of a vector space- Subspace of a vector space- Linear Span, Basis and dimension of a vector space

Definition of the 4 fundamental sub-spaces (Column space Ax , Row space $A^T y$, null space $Ax=0$, null space $A^T y = 0$)- Linear transformation- Formal definitions of rank and nullity of a linear transformation

UNIT-III

MATRIX EIGENVALUE PROBLEM AND MATRIX DECOMPOSITION

Determination of eigenvalues and eigenvectors of a matrix- Properties of eigenvalues and eigenvectors (without proof)- Similarity of matrices- Diagonalization of a matrix- Definiteness of a symmetric matrix- Orthogonal diagonalization of a symmetric matrix

LU decomposition of a square matrix- The Gram-Schmidt orthonormalization process-QR factorization.

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UNIT-IV

SOLUTION OF A LINEAR ALGEBRAIC SYSTEM OF EQUATIONS

Solution of a homogeneous and non-homogeneous system of equations using Gaussian elimination

Least squares approximation of an over determined system of equations using QR factorization and the generalized inverse

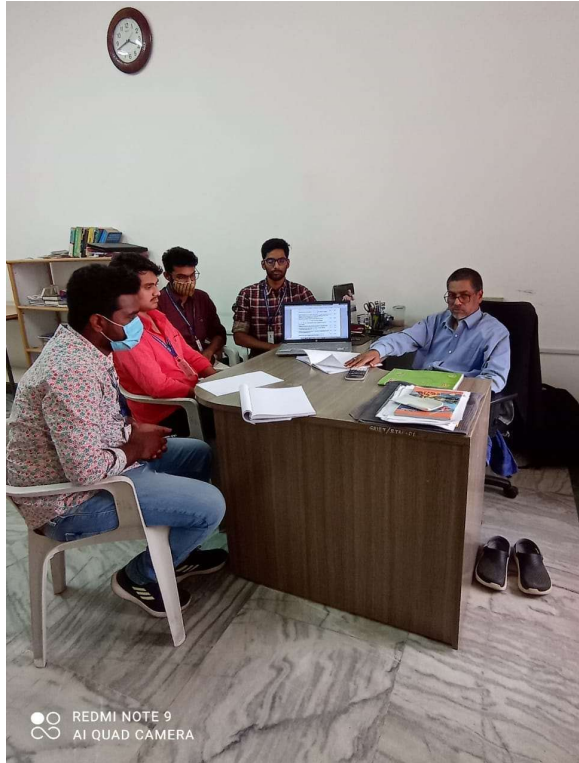
UNIT-V

SINGULAR VALUE DECOMPOSITION AND PRINCIPAL COMPONENT ANALYSIS

Low rank matrix approximation- Computation of the full singular value decomposition of a real matrix- Application to image approximation

Covariance matrix of multivariate data- Determination of principal components- Elementary treatment of principal component analysis to dimension reduction and face recognition

TEXT BOOKS





Gokaraju Rangaraju Institute of Engineering and Technology
Remedial School

Student's Feedback on Remedial classes

Branch: Linear Algebra **Year: 2021-22** **Semester:**
Subject: Linear Algebra **Faculty Name:** Dr. S.Ramamurthy

S.No	Item	Feed back
1.	Material presented	Excellent
2.	Teaching Clarity	Very Good
3.	Coverage of important topics	Excellent
4.	Doubts clarification	Excellent

Suggestions: Nil

(H&S-HOD)

Dean, Remedial School



GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Autonomous

Subject Name: Differential Equations and Vector Calculus Faculty Name: Ch.Phani Ramakrishna

S.No	ROLL NO.	22-04-2022	23-04-2022	25-04-2022	26-04-2022	27-04-2022	28-04-2022	Result
1	20241A0101	P	P	P	P	P	P	Pass
2	20241A0102	F	F	F	F	F	F	Fail
3	20241A0103	F	F	F	F	F	F	Fail
4	20241A0112	P	P	P	P	P	P	Pass
5	20241A0120	P	P	P	P	P	P	Pass
6	20241A0121	P	P	P	P	P	P	Pass
7	20241A0123	P	P	P	P	P	P	Pass
8	20241A0148	F	F	F	F	F	F	Fail
9	20241A0152	F	F	F	F	F	F	Fail
10	20241A0156	F	F	F	F	F	F	Fail
11	20241A0160	F	F	F	F	F	F	Fail
12	20241A0201	F	F	F	F	F	F	Fail
13	20241A0202	P	P	P	P	P	P	Pass
14	20241A0203	P	P	P	P	P	P	Pass
15	20241A0215	P	P	P	P	P	P	Pass
16	20241A0225	F	F	F	F	F	F	Fail
17	20241A0226	F	F	F	F	F	F	Fail
18	20241A0227	F	F	F	F	F	F	Fail
19	20241A0228	F	F	F	F	F	F	Fail
20	20241A0231	F	F	F	F	F	F	Fail
21	20241A0243	P	P	P	P	P	P	Pass
22	20241A0245	P	P	P	P	P	P	Pass
23	20241A0249	P	P	P	P	P	P	Pass
24	20241A0256	P	P	P	P	P	P	Pass
25	20241A0307	P	P	P	P	P	P	Pass
26	20241A0308	P	P	P	P	P	P	Pass
27	20241A0317	P	P	P	P	P	P	Pass
28	20241A0320	F	F	F	F	F	F	Fail
29	20241A0327	P	P	P	P	P	P	Pass
30	20241A0329	P	P	P	P	P	P	Pass
31	20241A0331	P	P	P	P	P	P	Pass
32	20241A0337	P	P	P	P	P	P	Pass
33	20241A0349	P	P	P	P	P	P	Pass
34	20241A0496	F	F	F	F	F	F	Fail
35	20241A0499	F	F	F	F	F	F	Fail
36	20241A04J8	P	P	P	P	P	P	Pass
37	20241A04K2	P	P	P	P	P	P	Pass
38	20241A04P4	P	P	P	P	P	P	Pass
39	20241A04Q1	P	P	P	P	P	P	Pass
40	20241A04Q9	P	P	P	P	P	P	Pass
41	20241A04S5	P	P	P	P	P	P	Pass
42	20241A04T2	P	P	P	P	P	P	Pass
43	20241A04T5	F	F	F	F	F	F	Fail
44	20241A04T8	P	P	P	P	P	P	Pass
45	20241A0503	P	P	P	P	P	P	Pass
46	20241A0504	P	P	P	P	P	P	Pass
47	20241A05A7	F	F	F	F	F	F	Fail
48	20241A05A9	F	F	F	F	F	F	Fail
49	20241A05C2	P	P	P	P	P	P	Pass
50	20241A05E2	P	P	P	P	P	P	Pass
51	20241A05E6	P	P	P	P	P	P	Pass
52	20241A05F4	P	P	P	P	P	P	Pass
53	20241A05G1	P	P	P	P	P	P	Pass
54	20241A05J5	P	P	P	P	P	P	Pass
55	20241A05J6	P	P	P	P	P	P	Pass
56	20241A05J7	P	P	P	P	P	P	Pass

57	20241A05L9	F	F	F	F	F	F	Fail
58	20241A05M8	P	P	P	P	P	P	Pass
59	20241A05Z8	F	F	F	F	F	F	Fail
60	20241A1210	P	P	P	P	P	P	Pass
61	20241A1235	P	P	P	P	P	P	Pass
62	20241A1237	F	F	F	F	F	F	Fail
63	20241A1263	P	P	P	P	P	P	Pass
64	20241A1299	P	P	P	P	P	P	Pass
65	20241A12B5	P	P	P	P	P	P	Pass
66	20241A12F5	P	P	P	P	P	P	Pass
67	20241A12G5	F	F	F	F	F	F	Fail
68	20241A12G6	F	F	F	F	F	F	Fail
69	20241A6612	F	F	F	F	F	F	Fail
70	20241A6621	F	F	F	F	F	F	Fail
71	20241A6636	P	P	P	P	P	P	Pass
72	20241A6650	P	P	P	P	P	P	Pass
73	20241A6658	F	F	F	F	F	F	Fail
74	20241A6659	F	F	F	F	F	F	Fail
75	20241A6701	P	P	P	P	P	P	Pass
76	20241A6703	P	P	P	P	P	P	Pass
77	20241A6706	F	F	F	F	F	F	Fail
78	20241A6707	F	F	F	F	F	F	Fail
79	20241A6719	F	F	F	F	F	F	Fail
80	20241A6727	F	F	F	F	F	F	Fail
81	20241A6736	F	F	F	F	F	F	Fail
82	20241A6741	P	P	P	P	P	P	Pass
83	20241A6750	P	P	P	P	P	P	Pass
84	20241A6751	P	P	P	P	P	P	Pass

GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Remedial School

Faculty Report on Subject

DEVC

UNIT I

ORDINARY DIFFERENTIAL EQUATIONS OF THE FIRST ORDER

LDE of the first order: Solution of Exact, Linear and Bernoulli equations, modeling Newton's law of cooling, growth and decay models, modeling of R-L circuit

UNIT II

ORDINARY DIFFERENTIAL EQUATIONS OF HIGHER ORDER

LDE with constant coefficients: Complementary function, over damping, under damping and critical damping of a system, Particular integrals for $f(x)$ of the form e^{ax} , x^n , $\cos ax$, $\sin ax$, $e^{ax}V(x)$ and $xV(x)$ where $V(x) \equiv \cos ax$ and $\sin ax$, the method of variation of parameters, LDE with variable coefficients: Cauchy's homogeneous equation, Legendre's homogeneous equations

UNIT III

MULTIPLE INTEGRALS

Double integrals: Evaluation of Double Integrals, change of order of integration (only Cartesian form), change of variables (Cartesian and polar coordinates)

Triple Integrals: Evaluation of triple integrals, Change of variables (Cartesian to Spherical and Cylindrical polar coordinates)

Applications: Area using the double integral –Volume of a solid using the double and triple integral- Mass, Center of mass and Center of gravity using double and triple integrals

UNIT IV

VECTOR DIFFERENTIATION AND LINE INTEGRATION

Vector differentiation: Scalar and vector point functions, Concepts of gradient, divergence and curl of functions in cartesian framework, solenoidal field, irrotational field, scalar potential

Vector line integration: Evaluation of the line integral, concept of work done by a force field, Conservative fields

UNIT V

SURFACE INTEGRATION AND VECTOR INTEGRAL THEOREMS

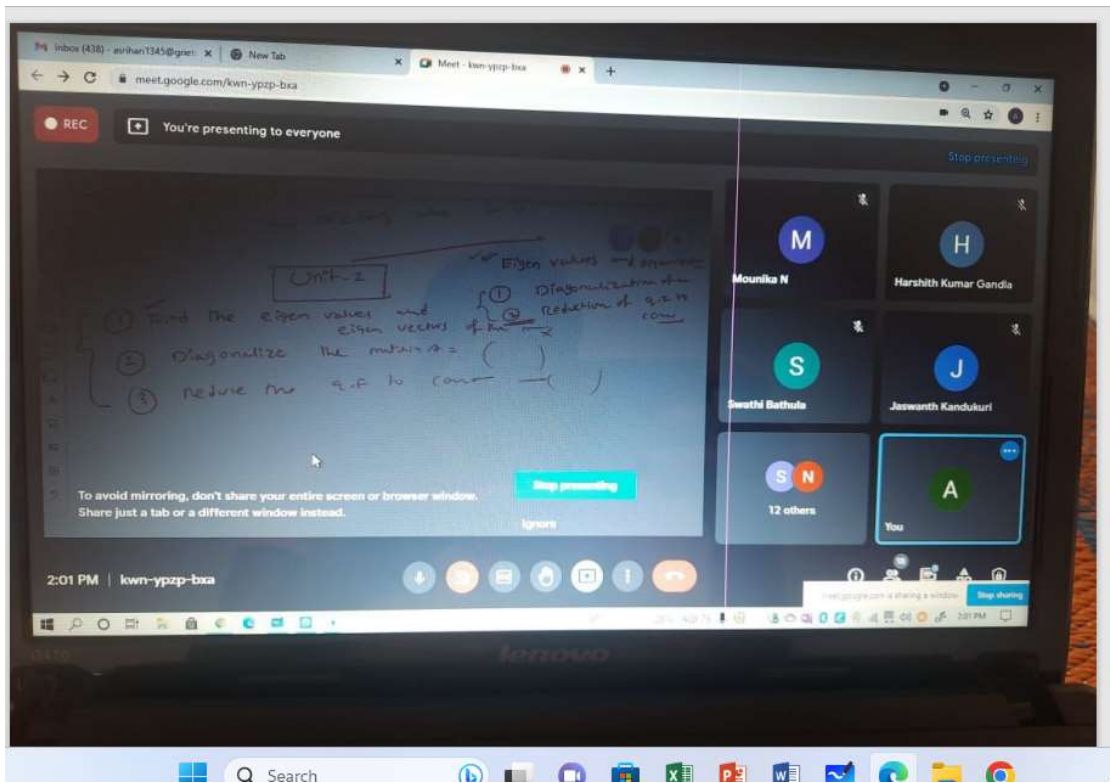
Surface integration: Evaluation of surface and volume integrals, flux across a surface

Vector integral theorems: Green's, Gauss and Stokes theorems (without proof) and their applications

II. Previous Question Papers Discussed

III. Material Shared with Students

IV. Classes are Conducted for Doubts Clarifications





Gokaraju Rangaraju Institute of Engineering and Technology
Remedial School

Student's Feedback on Remedial classes

Branch:

Year: 2021-22

Semester:

Subject: Differential Equations and Vector Calculus

Faculty Name: Ch.Phani Ramakrishna

S.No	Item	Feed back
1.	Material presented	Excellent
2.	Teaching Clarity	Very Good
3.	Coverage of important topics	Excellent
4.	Doubts clarification	Excellent

Suggestions: Nil

(H&S-HOD)

Dean, Remedial School

LADC

Branch	Total	Pass	Transition Rate
CE	6	4	66.67
EEE	4	3	75
ME	5	3	60
ECE	8	7	87.5
CSE	10	8	80
IT	6	2	33.33
CSM	5	4	80
TOTAL	44	31	70.45

Data Structures

Branch	Total	Pass	Transition Rate
CE	7	5	71.43
EEE	6	4	66.67
ME	9	7	77.78
ECE	18	16	88.89
CSE	35	30	85.71
IT	10	5	50.00
CSM	14	13	92.86
CSD	7	6	85.71
TOTAL	99	77	77.78

Applied Physics

Branch	Total	Pass	Transition Rate
EEE	8	6	75.00
ECE	55	52	94.55
CSE	3	1	33.33
IT	19	15	78.95
CSM	1	1	100.00
CSD	6	2	33.33
TOTAL	92	77	83.70

Engineering Graphics

Branch	Total	Pass	Transition Rate
CE	9	4	44.44
EEE	17	12	70.59
ME	11	6	54.55
ECE	37	34	91.89
CSE	15	12	80.00
IT	14	8	57.14
CSM	6	5	83.33
CSD	5	5	100.00
TOTAL	114	86	75.44

Engineering Mechanics

Branch	Total	Pass	Transition Rate
CE	30	16	53.33
ME	22	14	63.64
TOTAL	52	30	57.69

Statistical Methods

Branch	Total	Pass	Transition Rate
CSB	14	13	92.86

Linear Algebra

Branch	Total	Pass	Transition Rate
CSB	18	14	77.78

DEVC

Branch	Total	Pass	Transition Rate
CE	11	5	45.45
EEE	14	8	57.14
ME	8	7	87.50
ECE	11	8	72.73
CSE	15	11	73.33
IT	9	6	66.67
CSM	6	2	33.33
CSD	10	5	50.00
TOTAL	84	52	61.90

Report of Remedial Classes

2021-2022

This is to inform you that the Remedial school of GRIET is conducting Remedial classes of through online /off line mode for B. Tech I-year students to clear their backlogs.

1. Remedial classes are conducted in different Subjects to support the students in clearing their backlogs. As the first step, classes are held to students in different schedules. Students were informed through SMS.
2. Faculty gave tips as well as material for the students above 70% of the students who have attended got benefit and they passed in the exams.
3. 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. For some subjects they came and attentive.
4. The sessions are to prevent failure rate and thereby increasing transition rate. The subjects are selected based on 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 title	No. of Students Having Backlogs	No. of Students Passed In Exam	Transition Rate
1	Linear Algebra and Differential Calculus	44	31	70.45
2	Data Structures	99	77	77.78
3	Applied Physics	92	77	83.70
4	Engineering Graphics	114	86	75.44
5	Engineering Mechanics	52	30	57.69
6	Statistical Method	14	13	92.86
7	Linear Algebra	18	14	77.78
8	Differential equations and vector calculus	84	52	61.90