Remedial Classes

2022-2023

Department of Computer Science and Engineering

GOKARAJU RANGARAJU
INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Autonomous)

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GRIET/PRIN/12A/G/22-23 10-July-2023

GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING & TECHNOLOGY

REMEDIAL CLASSES 2022-23

CIRCULAR

REMEDIAL SCHOOL

This is to inform you all that Remedial Classes will be held for Students to clear their backlogs, from 12th July 2023. List of students and time tables are send to individual departments.

V N Ramadevi

Dean Remedial School

10-07-2023

From

Dean,
Remedial school
GRIET.

Request for faculty to conduct Remedial classes.

Sir/Madam,

This is to inform you that Remedial school of GRIET is conducting Remedial classes for current B.Tech students to clear backlogs in the following subjects from 3:00-4:00 PM from 12-07-2023 to 21-07-2023.

In this context, we request you nominate faculty to teach the following courses:

S. No	Course title	Department	Name of the faculty
1	Digital Logic Design	CSE	D.Ushasree
2	P&S	H&S	G. Srikanth Reddy

Thanking you
Yours Sincerely,

V.N. Rama Devi

Schedule

S.No	Name of the Subject	Faculty Name	18-07-2023	19-07-2023	20-07-2023	21-07-2023
1	DLD	D.USHASREE				

Dr.K.Madhavi
CSE-HoD

S.No	Name of the Subject	Faculty Name	12-07-2023	13-07-2023	214-07-2023	15-07-2023
1	P&S	G. Srikanth Reddy				

CSE-H&S Dean, Remedial Classes

Students List

DLD	
S.No.	**Roll No.**
1	21241A059A
2	21241A05A0
3	21241A05Y3
4	21241A05U3
5	21241A05Y4
6	22248A0509
7	21241A05A7
8	21241A05J9
9	21241A050E
10	21241A05D5
11	21241A05X3
12	21241A05J4
13	21241A05Q0
14	21241A05A9
15	21241A0579
16	21241A0531
17	21241A05D1
18	21241A0569
19	21241A055E
20	21241A05A6
21	21241A05E0
22	21241A05P7

DLD	
S.No.	**Roll No.**
23	21241A05W9
24	21241A05U0
25	21241A05S7
26	22248A0503
27	22248A0510
28	21241A05U2
29	21241A0513
30	21241A051E
31	21241A05F3

Gokaraju Rangaraju Institute of Engineering and Technology
Remedial School

Syllabus

Subject : Digital Logic design

Unit I: BINARY SYSTEMS

Digital Systems, Binary Numbers, Number Base Conversions, Octal and Hexadecimal Numbers, Complements, Signed Binary Numbers, Binary Codes, Binary Storage and Registers, Binary Logic.

Boolean Algebra and Logic Gates:

Basic Definitions, Axiomatic definition of Boolean Algebra, Basic theorems and properties of Boolean Algebra, Boolean Functions, Canonical and Standard Forms, Other Logic Operations, Digital Logic Gates, Integrated Circuits.

Unit II: GATE-LEVEL MINIMIZATION

The Map method, Four-variable map, Five-Variable map, Product of Sum's simplifications, Don't care conditions, NAND and NOR implementation, other two level implementations, Exclusive-OR Function.

Unit III: Combinational Logic: Combinational Circuits, Analysis Procedure, Design Procedure, Binary Adder - Subtractor, Decimal Adder, Binary Multiplier, Magnitude Comparator, Decoders, Encoders, Multiplexers.

Unit IV: SYNCHRONOUS SEQUENTIAL LOGIC

Sequential Circuits, Latches, Flip-Flops, Analysis of clocked sequential circuits, State Reduction and Assignment, Design Procedure.

Registers and Counters: Registers, shift registers, Ripple Counters, Synchronous Counters, other counters.

Unit V: MEMORY AND PROGRAMMABLE LOGIC

Introduction, Random Access Memory, Memory Decoding, Error Detection and Correction, Read Only Memory, Programmable Logic Array, Programmable Array Logic, Sequential Programmable Devices.

Hardware Description Language: Hardware Description Language, Definition, Structural Definition of HDL, HDL Models for Combinational circuits, HDL for Models for Sequential circuits.

Remedial Classes 2022-2023

Attendance

ROLL.NO	18/7/2023	19/7/2023	20/7/2023	21/7/2023
21241A059A	P	P	A	P
21241A05A0	P	A	P	P
21241A05Y3	A	A	P	P
21241A05U3	A	P	P	A
21241A05Y4	P	P	P	P
22248A0509	P	P	A	P
21241A05A7	A	A	P	A
21241A05J9	P	P	P	P
21241A050E	P	A	P	P
21241A05D5	P	P	A	P
21241A05X3	P	P	P	P
21241A05J4	P	P	P	P
21241A05Q0	A	A	A	A
21241A05A9	P	P	P	P
21241A0579	A	A	A	A
21241A0531	P	P	P	P
21241A05D1	P	P	P	P
21241A0569	A	A	A	A
21241A055E	A	A	A	A
21241A05A6	P	P	P	P
21241A05E0	A	P	P	P
21241A05P7	A	P	P	P
21241A05W9	P	P	P	A
21241A05U0	P	P	P	A
21241A05S7	P	A	P	A
22248A0503	P	A	P	A
22248A0510	P	P	P	P
21241A05U2	P	P	P	A
21241A0513	P	P	P	A
21241A051E	P	P	P	P
21241A05F3	A	P	A	P

Room No: 1303

Gokaraju Rangaraju Institute of Engineering and Technology
Remedial School

Topics covered

Subject : Digital Logic Design

I. Important Topics

Unit I: Basic Definitions, Axiomatic definition of Boolean Algebra, Basic theorems and properties of Boolean Algebra, Boolean Functions, Canonical and Standard Forms, Other Logic Operations, Digital Logic Gates, Integrated Circuits.

Unit II: GATE-LEVEL MINIMIZATION

The Map method, Four-variable map, Five-Variable map, Product of Sum's simplifications, Don't care conditions, NAND and NOR implementation, other two level implementations, Exclusive-OR Function.

Unit III: Combinational Logic:

Binary Adder - Subtractor, Decimal Adder, Binary Multiplier, Magnitude Comparator, Decoders, Encoders, Multiplexers.

Unit IV: SYNCHRONOUS SEQUENTIAL LOGIC

Sequential Circuits, Latches, Flip-Flops, Analysis of clocked sequential circuits, State Reduction and Assignment, Design Procedure.

Unit V: MEMORY AND PROGRAMMABLE LOGIC

Introduction, Random Access Memory, Memory Decoding, Error Detection and Correction, Read Only Memory, Programmable Logic Array, Programmable Array Logic, Sequential Programmable Devices.

II. Previous Question Papers Discussed

III. Material shared with the students.

IV. Classes are conducted for Doubts Clarification.

Gokaraju Rangaraju Institute of Engineering and Technology

Remedial School

Student's Feedback on Remedial classes

Branch: CSE **Year: II** **Semester:I**

Subject: DLD **Faculty Name: D.USHASREE**

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

Suggestions: Nil

Gokaraju Rangaraju Institute of Engineering and Technology

Remedial School

Student's Feedback on Remedial classes

Branch: CSE **Year: II** **Semester:I**

Subject: DLD **Faculty Name: D.USHASREE**

S.No	Item	Feed back
1.	Material presented	Excellent
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Suggestions: Nil

Gokaraju Rangaraju Institute of Engineering and Technology

Remedial School

Student's Feedback on Remedial classes

Branch: CSE **Year: II** **Semester:I**

Subject: DLD **Faculty Name: D.USHASREE**

S.No	Item	Feed back
1.	Material presented	Good
2.	Teaching Clarity	Very Good
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4.	Doubts clarification	Good

Suggestions: Nil

Gokaraju Rangaraju Institute of Engineering and Technology

Remedial School

Student's Feedback on Remedial classes

Branch: CSE **Year: II** **Semester:I**

Subject: DLD **Faculty Name: D.USHASREE**

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

Suggestions: Nil

Results

S.No	Roll No	Pass(p)/Fail(F)
1	21241A059A	
2	21241A05A0	
3	21241A05Y3	
4	21241A05U3	
5	21241A05Y4	
6	22248A0509	
7	21241A05A7	
8	21241A05J9	
9	21241A050E	
10	21241A05D5	
11	21241A05X3	
12	21241A05J4	
13	21241A05Q0	
14	21241A05A9	
15	21241A0579	
16	21241A0531	
17	21241A05D1	
18	21241A0569	
19	21241A055E	
20	21241A05A6	
21	21241A05E0	
22	21241A05P7	
23	21241A05W9	
24	21241A05U0	
25	21241A05S7	
26	22248A0503	
27	22248A0510	
28	21241A05U2	
29	21241A0513	
30	21241A051E	
31	21241A05F3	
Signature of the Faculty		

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

S.No	Subject	No. of students at ended for exam	No. of Students Passed in Exam	Transition Rate
1	DLD	31		

GRIET/PRIN/12A/G/22-23 10-July-2023

GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING & TECHNOLOGY

REMEDIAL CLASSES 2022-23

CIRCULAR

REMEDIAL SCHOOL

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V N Ramadevi

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10-07-2023

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Dean,
Remedial school
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In this context, we request you nominate faculty to teach the following courses:

S. No	Course title	Department	Name of the faculty
1	Digital Logic Design	CSE	D.Usha Sree
2	P&S	H&S	G. Srikanth Reddy

Thanking you
Yours Sincerely,

V.N. Rama Devi

Schedule

S.No	Name of the Subject	Faculty Name	18-07-2023	19-07-2023	20-07-2023	21-07-2023
1	DLD	D.Usha Sree				

CSE-HoD

S.No	Name of the Subject	Faculty Name	12-07-2023	13-07-2023	214-07-2023	15-07-2023
1	P&S	G. Srikanth Reddy				

CSE- HoD

Dean, Remedial Classes

Students List

P&S	
S.No.	**Roll No.**
1	22245A0523
2	22245A0530
3	22245A0512
4	21241A05D2
5	21241A05Q8
6	21241A05S6
7	21241A05Q4
8	22245A0517
9	21241A05Z9
10	22245A0516
11	21241A05F5
12	21241A05F0
13	21241A05Y8
14	21241A05N2
15	22245A0528
16	21241A05C4
17	21241A05D7
18	21241A05Q6
19	22245A0518
20	21241A05C6
21	21241A05U8
22	22245A0531
23	22245A0533
24	22245A0513

25	21241A05B1
26	21241A05R0
27	21241A05Q7
28	22245A0515
29	22245A0525
30	21241A05T3
31	22248A0502
32	21241A05F2
33	21241A05P5
34	21241A05K8
35	21241A05E5
36	21241A05R4
37	21241A05U7
38	21241A05K2
39	21241A05P8
40	21241A05B7
41	21241A05T9
42	21241A05V1
43	22248A0501
44	21241A0561
45	21241A05T2
46	21241A051B
47	21241A0597
48	21241A050E
49	21241A05J0
50	21241A05Q1
51	21241A05S0
52	22248A0504

53	21241A05D5
54	21241A05X3
55	21241A05J4
56	21241A05Q0
57	21241A05G4
58	21241A05H8
59	21241A05A9
60	21241A0579
61	21241A0531
62	21241A05U1
63	21241A05D1
64	22248A0506
65	21241A0569
66	21241A055E
67	21241A05A6
68	21241A05E0
69	21241A05P7
70	21241A05W9
71	21241A05U0
72	21241A05S7
73	22248A0503
74	22248A0510
75	21241A05U2
76	21241A0513
77	21241A051E
78	21241A05F3

GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY
PROBABILITY AND STATISTICS

Course Code: GR20A2005 **L/T/P/C: 3/0/0/3**
II Year I Semester

Course Objectives

1. Interpret the measures of central tendency and dispersion.
2. Distinguish between explanatory and response variables and analyze data using correlation and regression.
3. Apply various probability distributions.
4. Apply tests of hypothesis.
5. Employ basic analysis of time series data.

Course Outcomes

The expected outcomes of the Course are:

1. Compute and interpret descriptive statistics.
2. Evaluate random processes which occur in engineering applications governed by the Binomial, Poisson, Normal and Exponential distributions.
3. Fit the models using Regression Analysis.
4. Apply Inferential Statistics to make predictions or judgments about the population from which the sample data is drawn.
5. Interpret Time series data.

UNIT I: Random Variables, Basic Statistics, Correlation and Regression

Notion of Randomness, Random Experiment, Random variables – Discrete and Continuous, Probability mass function and density function, constants of r.v.s (Mean, Variance, Monents about mean), Concept of Bivariate distributions and Covariance.
Measures of central tendency and moments.
Correlation : Karl-Pearson's correlation coefficient and Spearman's Rank correlation, Statements of their properties and problems, Simple and Multiple Linear Regression (three variables case only), Statements of properties of Regression coefficients and problems.

UNIT II : Probability Distributions

Discrete Distributions: Binomial and Poisson distributions - definition, real life examples, Statements of their Mean and Variance, related problems, evaluation of statistical parameters.
Continuous Distributions: Normal, Exponential and Gamma distributions - definition, real life examples, Statements of their Mean and Variance and related problems, evaluation of statistical parameters for Normal distribution.

UNIT III : Testing of Hypothesis-1 (Large sample)

Concept of Sampling distribution and Standard error, tests for single proportion, difference of proportions, single mean, difference of means and Chi-square test for independence of attributes. Estimation of confidence interval for population mean and population proportions.

UNIT IV : Testing of Hypothesis-2 (Small Sample)

Tests for single mean, difference of means, Population variance, ratio of variances, ANOVA 1-way and 2-way. Estimation of confidence interval for Population mean.

UNIT V : Time Series analysis

Components of Time series, Additive and Multiplicative Decomposition of Time series components, Measuring trend by method of Moving averages, Straight line and Second degree parabola, Measuring seasonal variation by Ratio to Trend method and Ratio to Moving averages method.

Attendance

S.No	Roll No	12-Jul	13-Jul	14-Jul	15-Jul
1	22245A0523	P	P	P	P
2	22245A0530	A	P	P	P
3	22245A0512	P	P	P	P
4	21241A05D2	P	P	P	P
5	21241A05Q8	A	P	P	P
6	21241A05S6	P	P	A	P
7	21241A05Q4	P	P	P	P
8	22245A0517	P	P	P	P
9	21241A05Z9	P	P	P	P
10	22245A0516	P	P	P	P
11	21241A05F5	P	P	P	P
12	21241A05F0	P	P	P	P
13	21241A05Y8	A	P	P	P
14	21241A05N2	P	P	P	P
15	22245A0528	P	P	P	P
16	21241A05C4	P	P	P	A
17	21241A05D7	P	P	P	P
18	21241A05Q6	P	P	P	P
19	22245A0518	A	P	P	P
20	21241A05C6	P	P	P	P
21	21241A05U8	P	A	P	P
22	22245A0531	P	P	P	P
23	22245A0533	P	P	P	P
24	22245A0513	P	P	P	P
25	21241A05B1	P	P	P	P
26	21241A05R0	P	P	P	P
27	21241A05Q7	P	P	P	P
28	22245A0515	A	P	P	P
29	22245A0525	P	P	P	P
30	21241A05T3	P	P	P	P
31	22248A0502	P	P	A	P
32	21241A05F2	P	P	P	P
33	21241A05P5	P	P	P	P
34	21241A05K8	P	P	P	P
35	21241A05E5	P	P	A	P
36	21241A05R4	P	P	P	P
37	21241A05U7	P	P	P	P
38	21241A05K2	P	P	P	P
39	21241A05P8	P	P	P	P
40	21241A05B7	P	P	P	P

41	21241A05T9	P	P	P	P
42	21241A05V1	P	P	P	P
43	22248A0501	P	P	P	P
44	21241A0561	P	P	P	P
45	21241A05T2	P	P	P	P
46	21241A051B	P	P	P	P
47	21241A0597	P	P	P	P
48	21241A050E	P	P	P	P
49	21241A05J0	P	P	P	P
50	21241A05Q1	P	P	P	P
51	21241A05S0	P	P	P	A
52	22248A0504	P	P	P	P
53	21241A05D5	P	P	P	P
54	21241A05X3	P	P	A	P
55	21241A05J4	P	P	P	P
56	21241A05Q0	P	P	P	P
57	21241A05G4	P	A	P	P
58	21241A05H8	P	P	P	P
59	21241A05A9	P	P	P	P
60	21241A0579	P	P	P	P
61	21241A0531	P	P	P	P
62	21241A05U1	P	P	P	P
63	21241A05D1	P	P	A	P
64	22248A0506	P	P	P	P
65	21241A0569	P	A	P	P
66	21241A055E	P	P	P	P
67	21241A05A6	P	P	P	P
68	21241A05E0	P	P	P	P
69	21241A05P7	P	P	P	P
70	21241A05W9	P	P	A	P
71	21241A05U0	P	P	P	P
72	21241A05S7	P	P	P	P
73	22248A0503	P	P	P	P
74	22248A0510	P	A	P	P
75	21241A05U2	P	P	P	P
76	21241A0513	P	P	P	P
77	21241A051E	P	A	P	P
78	21241A05F3	P	P	P	P

Remedial Classes 2022-2023 Proofs

Gokaraju Rangaraju Institute of Engineering and Technology

Remedial School

Student's Feedback on Remedial classes

Branch: IT **Year: II** **Semester:I**

Subject: P&S **Faculty Name: G. Srikanth Reddy**

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

Suggestions: Nil

Gokaraju Rangaraju Institute of Engineering and Technology

Remedial School

Student's Feedback on Remedial classes

Branch: IT **Year: II** **Semester:I**

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Gokaraju Rangaraju Institute of Engineering and Technology

Remedial School

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Branch: IT **Year: II** **Semester:I**

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Gokaraju Rangaraju Institute of Engineering and Technology

Remedial School

Student's Feedback on Remedial classes

Branch: IT **Year: II** **Semester:I**

Subject: P&S **Faculty Name: G. Srikanth Reddy**

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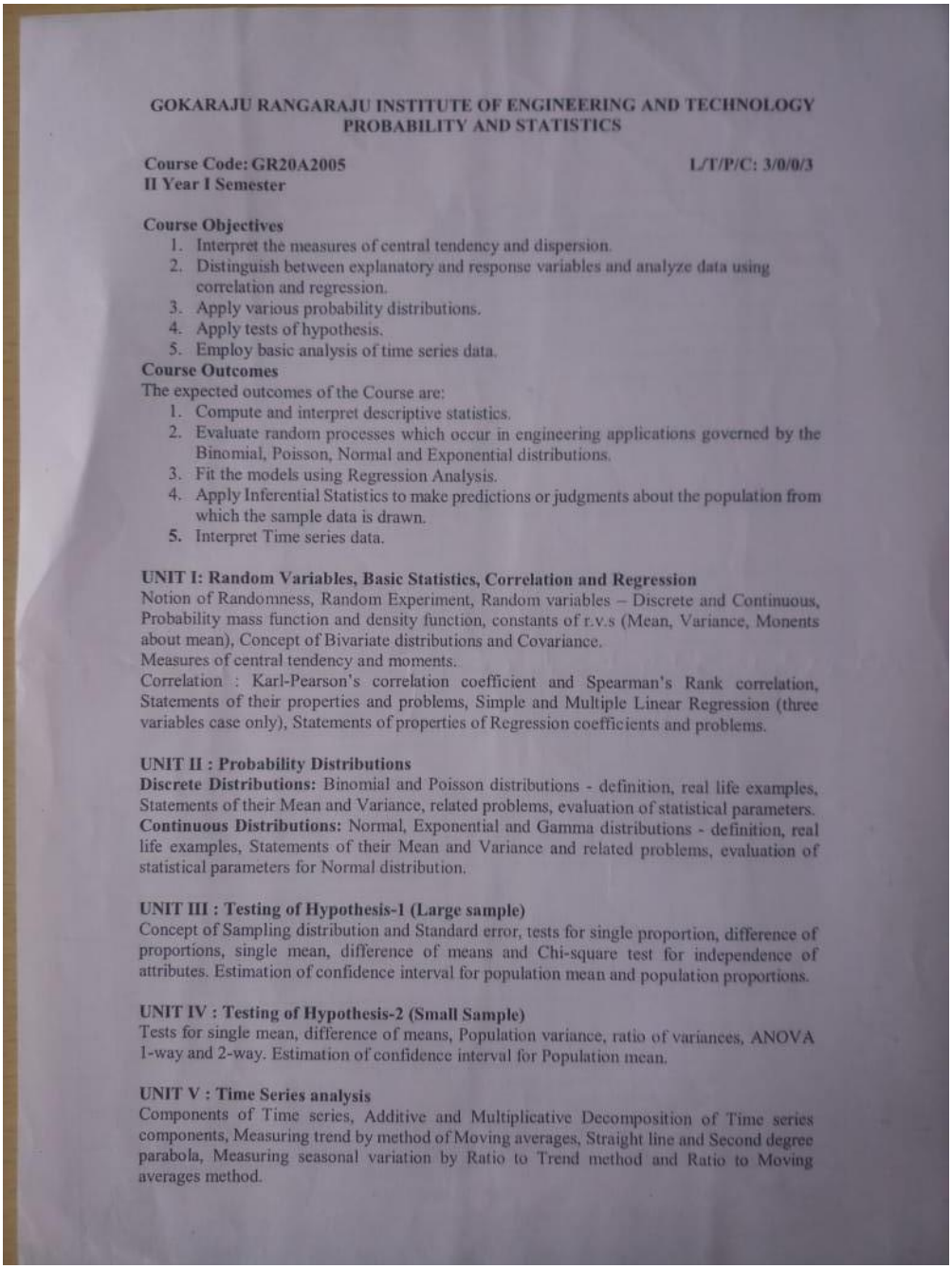
1.	Material presented	Good
2.	Teaching Clarity	Very Good
3.	Coverage of important topics	Excellent
4.	Doubts clarification	Excellent

Suggestions: Nil

I.



GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY
PROBABILITY AND STATISTICS

Course Code: GR20A2005 **L/T/P/C: 3/0/0/3**
II Year I Semester

Course Objectives

1. Interpret the measures of central tendency and dispersion.
2. Distinguish between explanatory and response variables and analyze data using correlation and regression.
3. Apply various probability distributions.
4. Apply tests of hypothesis.
5. Employ basic analysis of time series data.

Course Outcomes

The expected outcomes of the Course are:

1. Compute and interpret descriptive statistics.
2. Evaluate random processes which occur in engineering applications governed by the Binomial, Poisson, Normal and Exponential distributions.
3. Fit the models using Regression Analysis.
4. Apply Inferential Statistics to make predictions or judgments about the population from which the sample data is drawn.
5. Interpret Time series data.

UNIT I: Random Variables, Basic Statistics, Correlation and Regression

Notion of Randomness, Random Experiment, Random variables – Discrete and Continuous, Probability mass function and density function, constants of r.v.s (Mean, Variance, Monents about mean), Concept of Bivariate distributions and Covariance.
Measures of central tendency and moments.
Correlation : Karl-Pearson's correlation coefficient and Spearman's Rank correlation, Statements of their properties and problems, Simple and Multiple Linear Regression (three variables case only), Statements of properties of Regression coefficients and problems.

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Discrete Distributions: Binomial and Poisson distributions - definition, real life examples, Statements of their Mean and Variance, related problems, evaluation of statistical parameters.
Continuous Distributions: Normal, Exponential and Gamma distributions - definition, real life examples, Statements of their Mean and Variance and related problems, evaluation of statistical parameters for Normal distribution.

UNIT III : Testing of Hypothesis-1 (Large sample)

Concept of Sampling distribution and Standard error, tests for single proportion, difference of proportions, single mean, difference of means and Chi-square test for independence of attributes. Estimation of confidence interval for population mean and population proportions.

UNIT IV : Testing of Hypothesis-2 (Small Sample)

Tests for single mean, difference of means, Population variance, ratio of variances, ANOVA 1-way and 2-way. Estimation of confidence interval for Population mean.

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Components of Time series, Additive and Multiplicative Decomposition of Time series components, Measuring trend by method of Moving averages, Straight line and Second degree parabola, Measuring seasonal variation by Ratio to Trend method and Ratio to Moving averages method.

II. Previous Question Papers Discussed

III. Material shared with the students.

IV. Classes are conducted for Doubts Clarification.

Results

S.No	Roll No	Pass(p)/Fail(F)
1	22245A0523	
2	22245A0530	
3	22245A0512	
4	21241A05D2	
5	21241A05Q8	
6	21241A05S6	
7	21241A05Q4	
8	22245A0517	
9	21241A05Z9	
10	22245A0516	
11	21241A05F5	
12	21241A05F0	
13	21241A05Y8	
14	21241A05N2	
15	22245A0528	
16	21241A05C4	
17	21241A05D7	
18	21241A05Q6	
19	22245A0518	
20	21241A05C6	
21	21241A05U8	
22	22245A0531	
23	22245A0533	
24	22245A0513	
25	21241A05B1	
26	21241A05R0	
27	21241A05Q7	
28	22245A0515	
29	22245A0525	
30	21241A05T3	
31	22248A0502	
32	21241A05F2	
33	21241A05P5	
34	21241A05K8	

35	21241A05E5	
36	21241A05R4	
37	21241A05U7	
38	21241A05K2	
39	21241A05P8	
40	21241A05B7	
41	21241A05T9	
42	21241A05V1	
43	22248A0501	
44	21241A0561	
45	21241A05T2	
46	21241A051B	
47	21241A0597	
48	21241A050E	
49	21241A05J0	
50	21241A05Q1	
51	21241A05S0	
52	22248A0504	
53	21241A05D5	
54	21241A05X3	
55	21241A05J4	
56	21241A05Q0	
57	21241A05G4	
58	21241A05H8	
59	21241A05A9	
60	21241A0579	
61	21241A0531	
62	21241A05U1	
63	21241A05D1	
64	22248A0506	
65	21241A0569	
66	21241A055E	
67	21241A05A6	
68	21241A05E0	
69	21241A05P7	
70	21241A05W9	
71	21241A05U0	
72	21241A05S7	
73	22248A0503	
74	22248A0510	
75	21241A05U2	
76	21241A0513	
77	21241A051E	
78	21241A05F3	

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

S.No	Subject	No. of students at ended for exam	No. of Students Passed in Exam	Transition Rate
1	P&S	78