

N.M.G. COLLEGE OF ARTS AND SCIENCE
COURSE PORTIONS COVERED REPORT

21-22

Section : A
 Semester : FOURTH SEMESTER

20-2022

Programme M.Sc., Mathematics
 Course : Fluid Dynamics

Faculty Name : MOGAN D


From : 28-02-2022 To : 05-05-2022

S.No.	Date	Hour	Portion Covered
1	28-02-2022	1	velocity of a fluid at a point
2	01-03-2022	4	Stream lines
3	02-03-2022	3	Path lines
4	03-03-2022	4	Steady and unsteady flows
5	04-03-2022	2	Equations of continuity
6	07-03-2022	1	Equations of motion of fluid
7	08-03-2022	4	Pressure at a point in a fluid at rest
8	08-03-2022	5	Pressure at a point in a moving fluid
9	09-03-2022	3	Pressure at a point in a moving fluid
10	10-03-2022	4	Equation of motion
11	11-03-2022	5	Equation of motion
12	14-03-2022	1	Bernoulli's equation of motion
13	15-03-2022	4	Method of measuring fluid velocities
14	16-03-2022	3	Method of measuring flow in a pipe
15	17-03-2022	4	simple problem for motion
16	18-03-2022	5	Sources , sinks and doublets
17	22-03-2022	1	Simple problems are solved
18	23-03-2022	4	CIA Test - I
19	24-03-2022	3	Simple problems are solved
20	25-03-2022	4	cia test
21	26-03-2022	5	atoms
22	29-03-2022	1	Dipoles
23	30-03-2022	4	Simple problems are solved
24	31-03-2022	4	simple problems are solved
25	01-04-2022	4	The doublet in the uniform stream
26	04-04-2022	5	simple problems are solved
27	06-04-2022	1	Simple problems are solved
28	07-04-2022	4	Simple problems are solved
29	08-04-2022	3	Images in a rigid infinity plane
30	09-04-2022	4	Simple problems are solved
31	11-04-2022	2	Doublets simple problems are solved
32	11-04-2022	5	simple problems
33	13-04-2022	1	Simple problems are solved
34	18-04-2022	4	CIA II
35	19-04-2022	3	Simple problems are solved
36	20-04-2022	4	CIA II
37	21-04-2022	5	CIA II
38	23-04-2022	1	Simple problems are solved
39	25-04-2022	4	Problems
40	26-04-2022	3	Stokes stream function
41	27-04-2022	4	Simple problem are solved

COURSE PORTIONS COVERED REPORT

S.No.	Date	Hour	Portion Covered
42	28-04-2022	5	Simple problem are solved
43	30-04-2022	1	Absents
44	02-05-2022	4	simple problem are solved
45	04-05-2022	3	Simple problem are solved
46	05-05-2022	4	Simple problem

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PRINCIPAL

COURSE PORTIONS COVERED REPORT

Batch : 2021-2023

Programme M.Sc., Mathematics

Section : A

Faculty Name : MOGAN.D

Course : Partial Differential Equations

Semester : SECOND SEMESTER

From : 28-02-2022 To : 05-05-2022

S.No.	Date	Hour	Portion Covered
1	28-02-2022	3	Introduction for PDE
2	01-03-2022	1	Formation and solutions of first order PDE
3	02-03-2022	2	Problem based on eliminate by arbitrary constant
4	03-03-2022	3	Problems based on eliminate by arbitrary function
5	04-03-2022	5	Problems based on arbitrary functions
6	05-03-2022	3	Solution of PDE of first order integral surface
7	07-03-2022	3	Solution of PDE of first order integral surface
8	08-03-2022	1	Lagrange methods problems are solved
9	09-03-2022	2	Lagrange's method simple problems are solved
10	10-03-2022	3	Lagrange's methods simple problems are solved
11	11-03-2022	4	Lagrange's method problems are solved
12	12-03-2022	5	Integral surface of linear PDE
13	14-03-2022	3	Surface integral on linear PDE simple problems are solved
14	15-03-2022	1	Cauchy's method of characteristics
15	16-03-2022	2	Cauchy method of characteristics simple problems are solved
16	17-03-2022	3	Integral surface on linear PDE
17	18-03-2022	4	Integral surface on linear PDE
18	21-03-2022	5	CIA TEST
19	22-03-2022	3	Simple problems are solved
20	23-03-2022	1	Simple problems are solved
21	24-03-2022	2	Compatible systems of first order linear equations
22	25-03-2022	3	theorem
23	26-03-2022	4	CIA test I
24	28-03-2022	5	theorems
25	29-03-2022	3	Charpit's method problems are solved
26	30-03-2022	1	Charpit's method simple problems are solved
27	01-04-2022	3	Classical form of PDE
28	04-04-2022	4	Fundamental concepts
29	05-04-2022	5	General canonical form
30	06-04-2022	3	Canonical form for hyperbolic equation
31	07-04-2022	1	simple problems are solved
32	08-04-2022	2	Problems based on Hyperbolic equation
33	09-04-2022	3	Simple problems are solved
34	11-04-2022	4	simple problems
35	12-04-2022	5	simple problems
36	13-04-2022	3	Simple problems are solved
37	18-04-2022	1	Simple problems for hyperbolic equation
38	19-04-2022	2	Simple problems are solved
39	20-04-2022	3	Simple problems for hyperbolic equations
40	21-04-2022	4	CIA II
41	22-04-2022	5	CIA II

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S.No.	Date	Hour	Portion Covered
42	23-04-2022	3	Parabolic type problem are solved
43	25-04-2022	1	Problems
44	26-04-2022	2	Elliptic equation problems are solved
45	27-04-2022	3	Elliptic equation problem solved
46	28-04-2022	4	Elliptic equation problem are solved
47	29-04-2022	5	Elliptic differential equations
48	30-04-2022	3	Poisson equation
49	02-05-2022	1	Laplace equation in polar coordinates
50	04-05-2022	2	Laplace equation
51	05-05-2022	3	Simple problem

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PRINCIPAL

COURSE PORTIONS COVERED REPORT

Batch : 2020-2023

Programme B.Sc., Mathematics

Section : A

Faculty Name : MOGAN.D

Course : Mechanics

Semester : FOURTH SEMESTER

From : 28-02-2022 To : 05-05-2022

S.No.	Date	Hour	Portion Covered
1	28-02-2022	5	Introduction for mechanics
2	01-03-2022	2	Velocity , acceleration , resultant velocity and relative velocity
3	03-03-2022	2	Angular velocity and relative angular velocity
4	04-03-2022	1	Rectilinear motion
5	07-03-2022	5	simple problems are solved
6	08-03-2022	2	Simple problems are solved
7	09-03-2022	5	simple problems are solved
8	11-03-2022	1	simple problems solved
9	14-03-2022	5	Relative velocity simple problems are solved
10	15-03-2022	2	Components of velocity and acceleration
11	16-03-2022	5	Components of velocity and acceleration
12	18-03-2022	1	The angular velocity simple problems are solved
13	22-03-2022	5	Radial velocity and acceleration problems are solved
14	23-03-2022	2	Relative angular velocity problems are solved
15	24-03-2022	5	cia test
16	26-03-2022	1	Simple problems are solved
17	29-03-2022	5	Projectiles
18	31-03-2022	5	Projectiles
19	04-04-2022	1	Projectiles simple problems are solved
20	06-04-2022	5	Simple problems solved for projectile
21	07-04-2022	2	Projectiles simple problems are solved
22	11-04-2022	1	Problem solved for projectile
23	13-04-2022	5	Simple problems are solved
24	18-04-2022	2	Projectile simple problems are solved
25	19-04-2022	5	CIA II
26	21-04-2022	1	Projectile on an inclined plane
27	23-04-2022	5	CIA II
28	25-04-2022	2	Problems
29	26-04-2022	5	Simple problem are solved
30	28-04-2022	1	Impact
31	30-04-2022	5	Impact
32	02-05-2022	2	Impact problem are solved
33	04-05-2022	5	Impact

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K.M.G. COLLEGE OF ARTS & SCIENCE

Accredited by NAAC with "B+" Grade
(Recognised by UGC under section 2(f) and 12(B) of UGC Act 1956 and
Permanently Affiliated with Thiruvalluvar University, Vellore)

Gudiyattam, Vellore District.



WORK DIARY

2021 - 2022

NAME


MOGAN D

DEPARTMENT

MATHEMATICS

WORK DIARY

Date & Day Order	Hour	Class	Subject	Lesson Taught in the Class	Signature
28-02-22 IAT	1	II PG	Fluid Dynamics	velocity of a fluid at a point	Dr
	3	I PG	Partial Differential Equations	Introduction for PDE	Dr
	5	II PG	Mechanics	Introduction for mechanics	Dr
01-03-2022 IAT	1	I PG	Partial Differential Equations	Formation and solutions of first order PDE	Dr
	2	II PG	Mechanics	Velocity, acceleration, resultant velocity and relative velocity	Dr
	4	II PG	Fluid Dynamics	Stream line	Dr
				Problem based on eliminate by arbitrary constant	Dr
02-03-22 IAT	2	I PG	Partial Differential Equations	path lines	Dr
	3	II PG	Fluid Dynamics		
	5	II PG (CSI)	Statistical Methods and their application I	Straight line trend equations Problems	Dr


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WORK DIARY

Date & Day Order	Hour	Class	Subject	Lesson Taught in the Class	Signature
03.03.22 T th	3	I PG	Partial Differential Equations	Problems based on eliminate by arbitrary functions.	Du
	4	II PG	Fluid Dynamics	Equations of continuity	Du
04.03.22 V th	1	II US	Mechanics	Rectilinear motion	Du
	3	II US (CS)	Statistical methods - II	Problems	Du
	4	I PG	Partial Differential Equations	Problems based on arbitrary functions	Du
	5	II PG	Fluid Dynamics	Equations of continuity	Du
05.03.22 VI th	3	I PG	Partial Differential Equations	Solution of PDE of first order	Du
	5	II US (CS)	Statistics practical	integral surface curve fitting	Du
07.03.22 I st	2	II PG	Fluid Dynamics	Equations of motion of fluid	Du


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WORK DIARY

Date & Day Order	Hour	Class	Subject	Lesson Taught in the Class	Signature
07-03-22 I st	3	I PG	Partial Differential Equations	Solution of PDE of first order integral surface.	Am
	5	II UG	Mechanics	Simple problems are solved	Am
08-03-22 I nd	1	I PG	Partial Differential Equations	Lagrange methods Problems are solved	Am
	2	II UG	Mechanics	Simple Problems are solved	Am
	4	II PG	Fluid Dynamics	Pressure at a point in a moving fluid	Am
09-03-22 III rd	2	I PG	Partial Differential Equations	Lagrange's method simple Problems are solved	Am
	3	II PG	Fluid Dynamics	Pressure at a point in a moving fluid	Am
	5	II UG	Mechanics	Simple problems are solved	Am


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WORK DIARY

Date & Day Order	Hour	Class	Subject	Lesson Taught in the Class	Signature
10-03-22 IVth	3	IPG	Partial Differential Equations	Lagrange's methods simple problems are solved	Dr
	4	IIPG	Fluid Dynamics	Equation motion	Dr
11-03-22 Vth	1	IIUG	Mechanics	Simple problems are solved	Dr
	3	II VGCs)	Statistics Practical	introduction	Dr
	4	I PG)	Partial Differential Equations	Lagrange's method problems are solved	Dr
	5	IIPG	Fluid Dynamics	Equation motion	Dr
	5	IIUG	Statistics Practical	curve fitting	Dr
12-03-22 VIth	3	II VGCs)	Partial Differential Equations	Integral surface of linear PDE	Dr
	5	I PG)	Equations		
14-03-22 I 2 nd	1	IIPG	Fluid Dynamics	Bernoulli's equation of motion	Dr
	3	IIPG	Partial Differential Equations	Surface integral on linear PDE	Dr
	5	IIUG	mechanics	Simple problems are solved Relative velocity simple Problems are solved	Dr


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WORK DIARY

Date & Day Order	Hour	Class	Subject	Lesson Taught in the Class	Signature
15-03-22 II nd	1	IPG	Partial Differential Equations	Cauchy's method of characteristics	Dr
	2	IIUG	Mechanics	Components of velocity and acceleration	Dr
	4	II PG	Fluid Dynamics	Method of measuring fluid velocities	Dr
16-03-22 III rd	2	IPG	Partial Differential Equations	Cauchy method of characteristics Simple problems are solved	Dr
	3	II PG	Fluid Dynamics	Method of measuring flow in a pipe	Dr
	5	IIUG	Mechanics	Components of velocity & acceleration	Dr
17-03-22 IV th			Statistical Methods II	Problems	Dr
	1	IIUG (CS)			
	3	IPG	Partial Differential Equations	Integral surface on linear PDE	Dr
	4	II PG	Fluid Dynamics	Simple problem for motion	Dr


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WORK DIARY

Date & Day Order	Hour	Class	Subject	Lesson Taught in the Class	Signature
18.03.2022 I st	1	II VG	Mechanics	The angular velocity, simple	Dr
	3	II VG (CS)	Statistics Practical	problems are solved	Dr
	4	I PG	Partial Differential Equations	Parabolic wave problem are solved	Dr
				Integral surface on linear PDE	Dr
	5	II PG	Fluid Dynamics	Sources, sinks and doublets	Dr
21.03.2022 II nd	3	II VG (CS)	Statistics Practical	Exponential curve	Dr
	5	I PG		CIA-I test-	Dr
22.03.22 I st	1	II PG	Fluid Dynamics	Simple problems are solved	Dr
	3	I PG	Partial Differential Equations	Simple problems are solved	Dr
	5	II VG	Mechanics	Partial velocity and acceleration problems are solved	Dr


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WORK DIARY

Date & Day Order	Hour	Class	Subject	Lesson Taught in the Class	Signature
23-03-22 Tue	1	IPG	Partial Differential Equations	Simple problems are solved	Dr
	2	IIUG	Mechanics	Relative angular velocity problems are solved	Dr
	4	II PG	Fluid Dynamics	CIA - I test	
24-03-22 Wed	2	IPG	Partial Differential Equations	Compatible systems of first order linear equation	Dr
	3	II PG	fluid Dynamics	Simple problem are solved	Dr
	5	IIUG	Mechanics	CIA - I test	Dr
	3	IPG	Partial Differential Equations	theorem	
	4	II PG	Fluid Dynamics	CIA - I test	Dr
25-03-2022 Thu					


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WORK DIARY

Date & Day Order	Hour	Class	Subject	Lesson Taught in the Class	Signature
26-03-2022 Vth	1	IIUG	Mechanics	Simple problems are solved	Dr
	3	IIUG (CS)	Statistics Practical	The curve $y = aax + b$	Dr
	4	IPG	Partial Differential Equations	CIA I test	Dr
	5	II PG	Fluid Dynamics	CIA I test	Dr
				Statistics Practical	Problems
28-03-2022 VIth	3	IIUG (CS)	Partial Differential Equations	Theorem	Dr
	5	IPG	Partial Differential Equations		
29-03-2022 Ist	1	II PG	Fluid Dynamics	Completing	Dr
	3	IPG	Partial Differential Equations	Charpit's method problems are solved	Dr
	5	IIUG	Mechanics	Projectiles	Dr


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WORK DIARY

Date & Day Order	Hour	Class	Subject	Lesson Taught in the Class	Signature
20-03-2012 II nd	1	II PG	Partial Differential Equations	Charpit's method simple problems are solved	Dr
	2	II US	Mechanics	Impact	Dr
	4	II PG	Fluid Dynamics.	Simple problems are solved	Dr
21-03-2012 III rd	2	II UG (CS)	Statistical method II	Binomial distribution	Dr
	4	II PG	Fluid Dynamics	Simple problems are solved	Dr
01-04-2012 IV th	3	I PG	Partial Differential Equations	Classical form of PDE	Dr
	4	II PG	Fluid Dynamics	The Doublet in the uniform stream	Dr
04-04-2012 V th	3	II UG (CS)	Statistics Practical	Analysis of Variance	Dr
	5	II UG	Mechanics	Impact	Dr
	4	I PG	Partial Differential Equations	Fundamental concepts	Dr
	5	I PG	Fluid Dynamics	Simple Problems are solved	Dr


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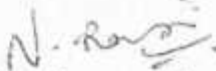
WORK DIARY

Date & Day Order	Hour	Class	Subject	Lesson Taught in the Class	Signature	
05-04-22 VII th	5	I PG	Partial Differential Equations	General Canonical form	Dr	
06-04-2022 I st	3	II UG (CS)	Statistics Practical	one way ANOVA	Dr	
	1	II PG	Fluid Dynamics	Simple problems are solved	Dr	
	3	I PG	Partial Differential Equation	Canonical form for hyperbolic equation	Dr	
	5	II UG	Mechanics	Simple problems are solved for projectile	Dr	
	07-04-22 II nd	1	I PG	Partial Differential Equations	Simple problems are solved	Dr
	2	II UG	Mechanics	Projectiles simple problems are solved	Dr	
	4	II PG	Fluid Dynamics	Simple problems are solved	Dr	
	08-04-22 III rd	2	I PG	Partial differential Equations	Problems based on hyperbolic equation	Dr
	3	II PG	Fluid Dynamics	Images in a rigid infinity plane	Dr	
	5	II UG				


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WORK DIARY

Date & Day Order	Hour	Class	Subject	Lesson Taught in the Class	Signature
09.04.2022 Th	1	II UG (CS)	Statistics Practical	Two way ANOVA	Dr
	3	I PG	Partial Differential Equations	Simple problem are solved	Dr
	4	II PG	Fluid Dynamics	Simple problems are solved	Dr
11.04.2022 Fr	1	II UG	Mechanics	problem solved for projectile	Dr
	3	II UG (CS)	Statistics Practical	Two way ANOVA	Dr
	4	I PG	Partial Differential Equations	Simple problems	Dr
	5	II PG	Fluid Dynamics	Simple problems	Dr
12.04.2022 Sa	3	II UG (CS)	Statistics Practical	Problems	Dr
	5	I PG	Partial Differential Equations	Simple problems	Dr


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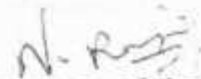
WORK DIARY

Date & Day Order	Hour	Class	Subject	Lesson Taught in the Class	Signature
13.04.2012 Ist	1	IPG	Fluid Dynamics	Simple problems are solved	Dr
	3	IPG	Partial Differential Equations	Simple problems are solved	Dr
	5	IVUG (CS)	Mechanics	Simple problems are solved	Dr
18.04.2012 IInd	1	IPG	Partial Differential Equations	Simple problems for hyperbolic	Dr
	2	IVUG	Mechanics	Projectile simple problems are solved	Dr
	4	IPG	Fluid Dynamics	CIA-II	Dr
19.04.2012 IInd	2	IPG	Partial Differential Equations	Simple problems are solved	Dr
	3	IPG	Fluid Dynamics	Simple problems are solved	Dr


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WORK DIARY

Date & Day Order	Hour	Class	Subject	Lesson Taught in the Class	Signature
20-04-22 Thu	3	IPG	Partial Differential Equations	Simple problems are solved	Dr
	4	IPG		CIA-II	Dr
21-04-22 Fri	1	IPG	mechanics	Projectile on an inclined plane	Dr
	3	IPG (15)	statistics Practical	RBD Problem are solved	Dr
	4	IPG		CIA-II	Dr
	5	IPG			
22-04-22 Sat	3	IPG	statistics Practical	Latin square design problem solved	Dr
	5	IPG		CIA-II	Dr


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WORK DIARY

Date & Day Order	Hour	Class	Subject	Lesson Taught in the Class	Signature
23-04-22 T & F	1	II PG	Fluid Dynamics	Simple problems are solved	Dr
	3	I PG	Partial Differential Equations	Probable type problem are solved	Dr
	5	IV B		CIA-II problems	Dr
25-04-22 Wed	1	I PG	Partial Differential Equations	problems	Dr
	2	IV B	Mechanics	problems	Dr
	4	II PG	Fluid Dynamics		
26-04-22 Thrd	2	I PG	Partial Differential Equations	elliptic equation problems are solved	Dr
	3	II PG	Fluid Dynamics	examples stream function	Dr
	5	II U B	Mechanics	Simple problems are solved	Dr


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WORK DIARY

Date & Day Order	Hour	Class	Subject	Lesson Taught in the Class	Signature
27.04.22 Th	3	IPG	Partial Differential Equation	elliptic equation problems solved	Dr
	4	IPG	Fluid Dynamics	Simple problems are solved	Dr
28.04.22 FR	1	IVUG	Mechanics	Impact	Dr
	3	IVUG (CS)	Statistics Practical	Latin Square design	Dr
	4	IPG	Partial Differential Equations	elliptic equation problem solved	Dr
	5	IPG	Fluid Dynamics	Simple problem solved	Dr
29.04.22 VIth	3	IVUG (CS)	Statistics Practical	Test of Significance	Dr
	5	IPG	Partial Differential Equation	elliptic differential equations	Dr


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WORK DIARY

Date & Day Order	Hour	Class	Subject	Lesson Taught in the Class	Signature
30-04-72 1st	1	II PG	Fluid Dynamics	: Absent	<i>[Signature]</i>
	3	IPG	Partial Differential Equations	Poisson equation	<i>[Signature]</i>
	5	II VG	Mechanics	Impact	<i>[Signature]</i>
02-05-72 I nd	1	IPG	Partial Differential Equations	Laplace equation in polar coordinates	<i>[Signature]</i>
	2	II VG	Mechanics	Impact problem are solved	<i>[Signature]</i>
	4	IPG	Fluid Dynamics	Simple problem are solved	<i>[Signature]</i>
04-05-72 I rd	2	IPG	Partial Differential Equations	Laplace equation	<i>[Signature]</i>
	3	II PG	Fluid Dynamics	Simple problem are solved	<i>[Signature]</i>
	5	II VG	Mechanics	Impact	<i>[Signature]</i>

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WORK DIARY

Date & Day Order	Hour	Class	Subject	Lesson Taught in the Class	Signature
05.05.22 TV FR	3	IPG	Partial Differential Equations	Simple problem	Dr
	4	IPG	Fluid Dynamics	Simple problem	Dr
18.05.22 TH SD	2	IPG	Partial Differential Equations	Separation of variables	Dr
	3	IPG	Fluid Dynamics	Assents	Dr
	5	IUG	Mechanics	Impact in smooth plane	Dr
	3	IPG	Partial Differential Equations	Dirichlet problem for a rectangle	Dr
19.05.22 FR	4	IPG	Fluid Dynamics	test	Dr
	1	IUG	Mechanics	Oblique impact	Dr
20.05.22 SAT	3	IUG (CC)	Statistics Practical	test of significance	Dr
	4	IPG	Partial Differential Equations	Dirichlet Problem	Dr
	5	IPG	Fluid Dynamics	test	Dr


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WORK DIARY

Date & Day Order	Hour	Class	Subject	Lesson Taught in the Class	Signature
23.05.22 VIA	2	II PG	Fluid Dynamics	Sample problem	Dr
	3	II VG (CS)	Statistical Methods-2	Tests of significant	Dr
	5	I PG	Partial Differential Equations	Newmanns problem	Dr
24.05.22 IA	1	II PG	Fluid Dynamics	Sample problem	Dr
	3	I PG	Partial Differential Equations	Sample problem	Dr
	5	II VG	Mechanics	Sample problem	Dr
25.05.22 I ^{nc}	1	I PG	Partial Differential Equation	Laplace equation	Dr
	2	II VG	Mechanics	Impact Sample problem	Dr
	4	II PG	Fluid Dynamics	Complex velocity potential	Dr


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WORK DIARY

Date & Day Order	Hour	Class	Subject	Lesson Taught in the Class	Signature
26.05.2022 Th	2	I PG	Partial Differential Equation	Simple problem	Dr
	3	II PG	Fluid Dynamics	Complex velocity potential problem	Dr
	5	II VG	Mechanics	Impact Simple problem	Dr
		II VG	Mechanics	Cylinder heat way problem	Dr
	27.05.2022 Fr	3	II PG	Partial Differential Equation	Complex velocity potential problem
4		II PG	Fluid Dynamics	Impact Simple problem	Dr
1		II VG	Mechanics	Simple problem	Dr
1		II VG	Mechanics	Simple problem	Dr
28.05.2022 Sa		3	II VG (CS)	Statistical methods	Simple problem
	4	I PG	Partial Differential Equation	Simple problem	Dr
	5	II PG	Fluid Dynamics	Simple problem	Dr


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WORK DIARY

Date & Day Order	Hour	Class	Subject	Lesson Taught in the Class	Signature
30/08/22 VI	2	II PG	Fluid Dynamics	Simple problem	Dr
	3	II VG (CS)	Statistical Methods	Simple problem	Dr
	5	I PG	Partial Differential Equation	Simple problem	Dr
01/09/22 I	2 1	II PG	Fluid Dynamics	Simple problem	Dr
	3	I PG	Partial Differential Equation	Parabolic differential equation	Dr
	5	II VG	Mechanics	Linear momentum	Dr
01/09/22 II	1	I PG	Partial Differential Equation	Boundary condition problem	Dr
	2	II VG	Mechanics	Law of forces	Dr
	4	II PG	Fluid Dynamics	Simple problem	Dr


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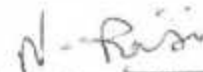
WORK DIARY

Date & Day Order	Hour	Class	Subject	Lesson Taught in the Class	Signature
21/06/2022	2	I PG	Partial Differential Equation	Simple problem	[Signature]
	3	I PG	Fluid Dynamics	Test	
	5	II VG	Mechanics	Simple problem	
03/06/2022	1	II VG	Mechanics	Simple problem	[Signature]
	3	I PG	Partial Differential Equation	Simple problem	
	4	II PG	Fluid Dynamics	Assignment	
06/06/2022	2	II PG	Fluid Dynamics	Simple problem	[Signature]
	3	II VG (CS)	Statistical Methods	'F' test	
	5	I PG	Partial Differential Equations	Dirac Delta function	


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WORK DIARY

Date & Day Order	Hour	Class	Subject	Lesson Taught in the Class	Signature
08/06/22	1	I PG	Partial Differential Equations	heat problem	Dr
	2	II V6	Mechanics	Cauchy theorem problem	Dr
	4	II PG	Fluid Dynamics	simple problem	Dr
09/06/22	2	I PG	Partial Differential Equations	problem	Dr
	3	II PG	Fluid Dynamic	project viva-voce	Dr
	5	II V6	Mechanics	problem	Dr
10/06/22	2	I PG	Partial Differential Equations	heat simple problem	Dr
	3	I PG	Partial Differential Equations	heat simple problem	Dr
	4	II PG	Fluid Dynamics	simple problem	Dr


 Signature of the HOD

TEACHING PLAN FOR ODD SEMESTER (2020-2021)

Faculty Name: Dr.D.Manikandan

Department: Microbiology

Subject Name: Food & Dairy Microbiology

Subject Code: DAM13

S.No	Date	Topics	Teaching methods	Name of Tools	Reference
1.	03.12.2020	Food as a substrate for microbes. Microorganisms important in food microbiology.	PPT	Microsoft Team	Frazier W. C. and D.C. Westhoff, Food Microbiology, 1988 (4th Edition).
2.	09.12.2020	Factors influencing microbial growth in food. Extrinsic and Intrinsic factors. Sources of food contamination.	PPT	Microsoft Team	Frazier W. C. and D.C. Westhoff, Food Microbiology, 1988 (4th Edition).
3.	17.12.2020	Principles of food preservation, General principles and application methods –Asepsis - Techniques of removal –use of temperature (low & high).	PPT	Microsoft Team	Frazier W. C. and D.C. Westhoff, Food Microbiology, 1988 (4th Edition).
4.	18.12.2020	Drying, High pressure radiation and chemical preservatives. Contamination, preservation and spoilage of fruits, vegetables, meat, poultry, eggs, fish and othersea foods.	PPT	Microsoft Team	Narayanan, R. and B. Dhanalakshmi. 2013. Food Microbiology.

5.	28.12.2020	Canning - Methods - Types - Spoilage of canned foods. Fermented foods – Bread and Malt beverages – Beer, Wine , Vinegar.	PPT	Microsoft Team	Narayanan, R. and B. Dhanalakshmi. 2013. Food Microbiology.
6.	06.01.2021	I CIA TEST	-	-	-
7.	19.01.2021	Fermented vegetables. Nutritional value of fermented foods.	PPT	-	Narayanan, R. and B. Dhanalakshmi. 2013. Food Microbiology.
8.	25.01.2021	II CIA TEST	-	-	-
9.	03.02.2021	Dairy Microbiology: Micro flora of milk. Sources of milk contamination. Preservation and spoilage of milk and milk products.	PPT	-	J.B. Prajapati. 1995. Fundamentals of Dairy Microbiology.
10.	10.02,2021	Microbiology of fermented milk products -Acid fermented milks (acidophilus milk, yoghurt), Slightly acid fermented milks, Acid-alcoholic fermented milk.	PPT	-	J.B. Prajapati. 1995. Fundamentals of Dairy Microbiology.
11.	17.02.2021	Fermented foods - Fermented vegetables and dairy products. Milk production with extended self life.	PPT	-	J.B. Prajapati. 1995. Fundamentals of Dairy Microbiology.
12.	24.02.2021	Food borne diseases, food intoxication and their control measures.	PPT	-	A. Bohra and Pradeep Parihar. 2006. Food Microbiology.

13	16.02.2021	Food sanitation in food manufacture and in the retail trade. Food control agencies and their regulations.	PPT	-	A. Bohra and Pradeep Parihar. 2006. Food Microbiology.
14.	02.03.2021	HACCP, GMP, GHP.	PPT	-	A. Bohra and Pradeep Parihar. 2006. Food Microbiology.

(Signature)
02.03.21

Class in charge

(Dr.D.Manikandan)
Department of Microbiology
K.M.G. COLLEGE OF ARTS AND SCIENCES
GUDIYATTAM-635 803, VELLORE DISTRICT

(Signature)
20.03.2021

HEAD OF THE DEPARTMENT,

HOD
Dept. Of Microbiology,
K.M.G. College of Arts & Science
GUDIYATTAM-635 803

Approved By

(Signature)
PRINCIPAL

K.M.G. COLLEGE OF ARTS & SCIENCE
GUDIYATTAM - 635 803.
VELLORE DISTRICT

TEACHING PLAN FOR EVEN SEMESTER-2020

Faculty Name: Dr.D. Manikandan

Department: Microbiology

Subject Name: Research Methodology

Subject Code: MAM41


S.No	Date	Topics	Teaching methods	Name of Tools	Reference
1.	07.12.2020	UNIT-I Microscopy: light microscope - basic principles, types, (phase contrast, dark field and fluorescent microscope).	PPT		Patki, L.R., Bhalchandra, L. and Jeevaji An introduction to microtechniques.
2.	09.12.2020	Electron microscopy - principles, working function, electron probe, transmitted electron, image formation, back scattering, secondary electrons. X-ray diffraction, Auger electron, cathode luminescence.	PPT		Patki, L.R., Bhalchandra, L. and Jeevaji An introduction to microtechniques.
3.	04.01.2021	Types of EM: TEM, SEM, STEM - sample preparation for EM analysis. Camera Lucida - Principles and uses.	PPT		Patki, L.R., Bhalchandra, L. and Jeevaji An introduction to microtechniques.


4.	04.01.2021	UNIT-II Electromagnetic radiation: definition, components, biological effective wavelength (UV and visible)	PPT		Patki, L.R., Bhalchandra, L. and Jeevaji An introduction to microtechniques.
5.	06.01.2021	Spectrophotometry: principles and working function of spectrophotometers, types (single beam, double beam, Atomic absorption spectrophotometer)	PPT		Patki, L.R., Bhalchandra, L. and Jeevaji An introduction to microtechniques.
6.	06.01.2021	I CIA TEST	-	-	-
7.	13.01.2021	IR and NMR. Applications of various spectrophotometers.	PPT		Patki, L.R., Bhalchandra, L. and Jeevaji An introduction to microtechniques.
8.	21.01.2021	UNIT-III Radioactivity: nature of radioactivity, types of radioisotopes, half-life, Unit of radioactivity, detection and measurements.	PPT		Keith Wilson and John Walker Practical Biochemistry - principles and techniques
9.	29.01.2021	Geiger Muller counter, liquid scintillation counter, principles and working function. Autoradiography, application of radioisotopes in biological research.	PPT		Keith Wilson and John Walker Practical Biochemistry - principles and techniques

10.	01.02.2021	Centrifugation: Basic principles, sedimentation coefficient, centrifugal forces.	PPT		Keith Wilson and John Walker Practical Biochemistry - principles and techniques
11.	02.02.2021	Types of centrifuges - clinical, high speed, refrigerated, ultra	PPT		Keith Wilson and John Walker Practical Biochemistry - principles and techniques
11.	16.02.2021	II CIA TEST	-	-	-
12.	19.02.2021	Types of centrifugation - rotar types, density gradient, differential centrifugation. Applications of centrifugation.	PPT		Keith Wilson and John Walker Practical Biochemistry - principles and techniques
13.	22.02.2021	UNIT-IV Chromatography - Principle, types and working function (Paper chromatography, TLC, GC, GC-MS and HPLC), Applications.	PPT		Kothari, C.R Research methodology
14.	24.02.2021	Electrophoresis - Principle, types and methods. Horizontal, vertical, PAGE, Agarose electrophoresis, Applications.	PPT		Kothari, C.R Research methodology

15..	25.02.2021	Pulse Field gel electrophoresis (PFGE) - Principle and applications.	PPT		Kothari, C.R Research methodology
16.	25.02.2021	Gel documentation and molecular weight analysis.	PPT		Kothari, C.R Research methodology
17.	26.02.2021	UNIT-V Molecular Techniques - DNA and plasmid isolation.	PPT		Irfan A. Khan and Atiya Khanum Fundamental of Biostatistics
18.	27.02.2021	Amplification of 16S rRNA or specific genes using PCR techniques	PPT		Irfan A. Khan and Atiya Khanum Fundamental of Biostatistics
19.	01.03.2021	RAPD, STRR and LTRR analysis using PCR, RFLP analysis cloning strategies, DNA sequencing	PPT		Irfan A. Khan and Atiya Khanum Fundamental of Biostatistics
20.	02.03.2021	Sanger's Dideoxy and Maxam and M.Sc. Applied Microbiology: Syllabus (CBCS) 50 Gilbert's methods. Automated DNA sequencing, Blotting techniques - southern, western, Dot blot-hybridization	PPT		Irfan A. Khan and Atiya Khanum Fundamental of Biostatistics
21.	03.03.2021	ELISA - Applications in biological research. Thesis writing; defining research problem, research			Irfan A. Khan and Atiya Khanum Fundamental of Biostatistics

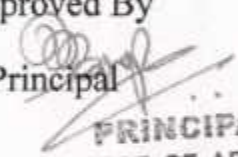
		design, general format, literature survey, primary source - articles, reviews, abstract, current contents (both text and CCOD), reference card, data analysis, data interpretation, report writing, proof correction.			
22.	15.03.2021	Revision	-	-	-
23.	17.03.2021	MODEL EXAM	-	-	-


 Class in charge
 Department of Microbiology
 M. G. (Dr. D. Manikandan)


 HEAD OF THE DEPARTMENT.
 Dept. Of Microbiology,
 K. M. G. College of Arts & Science
 GUDIYATTAM - 635 603

Approved By

Principal


 PRINCIPAL
 K.M.G. COLLEGE OF ARTS & SCIENCE
 GUDIYATTAM - 635 603.

COURSE PORTIONS COVERED REPORT

Batch : 2020-2022

Programme M.Sc., Mathematics

Section : A

Faculty Name : THENDRAL ARASI.R

Course : Probability Theory

Semester : FIRST SEMESTER

From : 02-11-2020 To : 16-02-2021

odd sem

S.No.	Date	Hour	Portion Covered
1	02-12-2020	3	probability introduction
2	03-12-2020	1	properties of probability
3	07-12-2020	4	properties probability
4	07-12-2020	5	non increasing and non decreasing sequence
5	08-12-2020	5	non-increasing and non-decreasing sequence
6	09-12-2020	1	Booles inequality
7	09-12-2020	4	booles inequality
8	10-12-2020	3	conditional probability and theorems
9	11-12-2020	1	Bayes ntheorem, Examples
10	15-12-2020	4	Random variables
11	15-12-2020	5	Random variables
12	16-12-2020	5	marginal distribution
13	17-12-2020	1	conditional Distribution
14	17-12-2020	4	conditional Distribution - Problems
15	18-12-2020	3	Distribution function
16	21-12-2020	1	distribution function examples
17	23-12-2020	4	general linear transformation
18	23-12-2020	5	Multidimensional Randam Variables
19	24-12-2020	5	problems in distribution function
20	28-12-2020	1	Expected value
21	28-12-2020	4	Expected value Examples
22	29-12-2020	3	moments
23	30-12-2020	1	moments Examples
24	04-01-2021	4	regression curve of first type
25	04-01-2021	5	regression curve property
26	05-01-2021	5	regression curve of second type
27	12-01-2021	5	central moments
28	18-01-2021	1	regression curves
29	18-01-2021	4	regression lines
30	19-01-2021	3	characteristic function
31	20-01-2021	1	characteristic function
32	22-01-2021	4	problems
33	22-01-2021	5	semi-invariants
34	23-01-2021	5	theorems
35	02-02-2021	5	theorem - Faucher inverse formula
36	03-02-2021	1	theorems
37	03-02-2021	4	theorems
38	04-02-2021	1	one point, two point distribution
39	05-02-2021	1	Binomial Distribution
40	08-02-2021	4	model exam
41	08-02-2021	5	model exam

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COURSE PORTIONS COVERED REPORT

S.No.	Date	Hour	Portion Covered
42	09-02-2021	5	model exam
43	10-02-2021	1	polya distribution
44	10-02-2021	4	model exam
45	11-02-2021	3	polya and hyper geometric distribution
46	12-02-2021	1	theorems
47	15-02-2021	4	uniform distribution
48	15-02-2021	5	normal distribution
49	16-02-2021	5	normal distribution

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K.M.G. College of Arts and Science

COURSE PORTIONS COVERED REPORT

Batch : 2019-2021

Programme: M.Sc., Mathematics

Section : A

Faculty Name : THENDRAL ARASIR

Course : Probability Theory

Semester : THIRD SEMESTER

From : 03-08-2020 To : 17.10.2020

S.No.	Date	Hour	Portion Covered
1	03-08-2020	2	conditional probability
2	04-08-2020	2	Axioms and properties of probability
3	05-08-2020	2	Bayes Theorem
4	06-08-2020	2	Boules Inequality
5	07-08-2020	3	Problems
6	08-08-2020	1	Distribution function
7	10-08-2020	2	Probability Theor
8	12-08-2020	2	Probability Theory
9	13-08-2020	2	multidimensional random variable
10	14-08-2020	2	Probability Theory
11	17-08-2020	3	conditional probability
12	18-08-2020	1	distribution function - problems
13	19-08-2020	2	Expected value
14	20-08-2020	2	expected value of Distribution function
15	21-08-2020	2	moments
16	24-08-2020	2	absolute moments
17	25-08-2020	3	central moments
18	26-08-2020	1	Probability Theory - Lapunov's Inequality
19	27-08-2020	2	Probability Theory - Regression of first type
20	28-08-2020	2	Regression of second type
21	29-08-2020	2	Regression - problems
22	31-08-2020	2	problems based on moments
23	01-09-2020	3	characteristic function
24	02-09-2020	1	properties of characteristic functions
25	03-09-2020	2	characteristic function - problems.
26	04-09-2020	2	moment generating function (MGF)
27	05-09-2020	2	MGF - properties - problems
28	07-09-2020	2	probability generating function (PGF)
29	08-09-2020	3	PGF - properties - problems
30	09-09-2020	1	Semi-invariants
31	10-09-2020	2	Seminvariants - problems
32	11-09-2020	2	characteristic function
33	12-09-2020	2	distribution function
34	14-09-2020	2	distribution function - problems.
35	15-09-2020	3	distribution function
36	16-09-2020	1	determination of distribution
37	17-09-2020	2	determination of distribution
38	18-09-2020	2	Fourier inverse formula
39	19-09-2020	2	characteristic function
40	21-09-2020	2	cia 2
41	22-09-2020	3	cia 2

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COURSE PORTIONS COVERED REPORT

S.No.	Date	Hour	Portion Covered
42	23-09-2020	1	cia 2
43	24-09-2020	2	cia 2
44	25-09-2020	2	cia 2
45	26-09-2020	2	cia 2
46	28-09-2020	2	characteristic function
47	29-09-2020	3	one point distribution
48	30-09-2020	1	one point ,two point distribution
49	01-10-2020	2	binomial distribution
50	03-10-2020	2	polya and hyper geometric distribution
51	05-10-2020	2	poisson distribution
52	06-10-2020	2	uniform and normal distribution
53	07-10-2020	3	characteristic function
54	08-10-2020	1	beta and cauchy distribution
55	09-10-2020	2	gamma distribution
56	10-10-2020	2	theorems
57	12-10-2020	2	levy cramer theorem
58	13-10-2020	2	levy cramer theorem
59	14-10-2020	3	Demovire laplace theorem
60	15-10-2020	1	lindeberg levy theorem
61	16-10-2020	2	liapunov theorem.
62	17-10-2020	2	test

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COURSE PORTIONS COVERED REPORT

Batch : 2018-2021

Programme B.Sc., Mathematics

Section : A

Faculty Name : THENDRAL ARASI.R

Course : Dynamics

Semester : FIFTH SEMESTER

From : 03-08-2020 To : 17.10.2020

S.No.	Date	Hour	Portion Covered
1	03-08-2020	4	projectiles problems
2	05-08-2020	4	<i>motion of a projectile</i>
3	06-08-2020	1	<i>Equation of trajectory</i>
4	08-08-2020	5	Projectiles - <i>Horizontal Range</i>
5	10-08-2020	4	Dynamics - <i>Projectiles - problems</i>
6	13-08-2020	4	Dynamics - <i>projectiles - problems</i>
7	14-08-2020	1	Dynamics - <i>Projectile is projected on an inclined plane</i>
8	18-08-2020	5	impact
9	19-08-2020	4	Dynamics - <i>Impulsive, line of Impact - laws of impact</i>
10	21-08-2020	4	direct impact <i>of a smooth sphere on a plane</i>
11	24-08-2020	1	<i>Direct Impact - problems</i>
12	26-08-2020	5	Dynamics - <i>oblique Impact</i>
13	27-08-2020	4	<i>Impact - simple problems.</i>
14	29-08-2020	4	<i>Impact - simple problems</i>
15	31-08-2020	1	<i>Impact - problems</i>
16	02-09-2020	5	<i>Impact - simple problems</i>
17	03-09-2020	4	<i>Impact - simple problems</i>
18	05-09-2020	4	<i>Impact - simple problems</i>
19	07-09-2020	1	<i>central force and central orbit</i>
20	09-09-2020	5	<i>central force and central orbit</i>
21	10-09-2020	4	<i>Differential Equation of central orbit</i>
22	12-09-2020	4	<i>Redal Equation of central orbit</i>
23	14-09-2020	1	<i>problems</i>
24	16-09-2020	5	areal velocity
25	17-09-2020	4	areal velocity in cartesian form
26	19-09-2020	4	law of force
27	21-09-2020	1	cia3
28	23-09-2020	5	cia2
29	24-09-2020	4	cia2
30	26-09-2020	4	cia2
31	28-09-2020	1	acceleration
32	30-09-2020	5	central orbit-simple problems
33	01-10-2020	4	central orbit
34	05-10-2020	4	MI of cone, triangular lamina
35	06-10-2020	1	MI of rod, elliptic lamina
36	08-10-2020	5	perpendicular axes theorem
37	09-10-2020	4	MI of rectangular lamina
38	12-10-2020	4	rectilinear motion
39	13-10-2020	1	problems
40	15-10-2020	5	work and energy
41	16-10-2020	4	cia 3

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N. Arasi
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PRINCIPAL

2020-21
even sem

K.M.G. College of Arts and Science

COURSE PORTIONS COVERED REPORT

Batch : 2019-2021

Programme M.Sc., Mathematics

Section : A

Faculty Name : THENDRAL ARASLR

Course : Mathematical Statistics

Semester : FOURTH SEMESTER

From : 07-12-2020 To : 20-03-2021

S.No.	Date	Hour	Portion Covered
1	07-12-2020	3	population, random method
2	08-12-2020	2	distribution of mean
3	09-12-2020	2	problems
4	10-12-2020	4	introduction
5	11-12-2020	4	problems
6	04-01-2021	3	chi square distribution
7	05-01-2021	3	chi square distribution
8	06-01-2021	2	non central chi square
9	07-01-2021	2	density of mean and SD
10	08-01-2021	5	distribution of mean and SD
11	09-01-2021	4	problems
12	11-01-2021	3	student t distribution
13	12-01-2021	3	student t distribution
14	18-01-2021	2	theorems
15	19-01-2021	2	<i>Snedecor's F</i>
16	20-01-2021	5	Z distribution
17	21-01-2021	4	non central F
18	22-01-2021	3	Z distribution
19	23-01-2021	3	theorems
20	25-01-2021	2	theorems
21	27-01-2021	2	statistical test
22	29-01-2021	5	problems
23	30-01-2021	4	significance test
24	01-02-2021	3	theoretical frequency
25	02-02-2021	3	Theorem
26	03-02-2021	2	theorem
27	04-02-2021	2	problem
28	05-02-2021	5	kolmogrov theorem
29	06-02-2021	4	smirnov theorem
30	08-02-2021	3	smirnov theorem
31	09-02-2021	3	CIA I
32	10-02-2021	2	smirnov theorem
33	11-02-2021	2	smirnov type
34	12-02-2021	5	CIA I
35	13-02-2021	4	wald wolfowitz test
36	15-02-2021	3	wilcoxon mann whitney test
37	16-02-2021	3	problems
38	17-02-2021	2	theorem
39	18-02-2021	2	contingency table
40	19-02-2021	5	theorems
41	20-02-2021	4	SPRT

K.M.G. College of Arts and Science

COURSE PORTIONS COVERED REPORT

S.No.	Date	Hour	Portion Covered
42	22-02-2021	3	theorem
43	23-02-2021	3	theorems
44	24-02-2021	2	OC Function
45	25-02-2021	2	theorems
46	28-02-2021	5	theorems
47	27-02-2021	4	auxillary theorems
48	01-03-2021	3	theorems
49	02-03-2021	3	one way classification
50	03-03-2021	2	theorems
51	04-03-2021	2	theorem - Two way classification
52	05-03-2021	5	test
53	06-03-2021	4	theorems - Powerful Test
54	08-03-2021	3	theorems - most powerful Test
55	09-03-2021	3	theorems
56	10-03-2021	2	most powerful test
57	11-03-2021	2	theorems - fundamental lemma
58	12-03-2021	4	test
59	12-03-2021	5	theorems - Types I ; II Errors
60	13-03-2021	4	problems
61	15-03-2021	3	run test
62	16-03-2021	3	class test
63	17-03-2021	2	problems
64	18-03-2021	2	most efficient estimate
65	19-03-2021	5	theorems
65	20-03-2021	4	black well theorem

— End of the report —


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K.M.G. College of Arts and Science

COURSE PORTIONS COVERED REPORT

Batch : 2018-2021

Faculty Name : THENDRAL ARASI.R

From : 07-12-2020 To : 20-03-2021

Programme B.Sc., Mathematics

Course : Operations Research

Section : A

Semester : SIXTH SEMESTER

S.No.	Date	Hour	Portion Covered
1	07-12-2020	1	Introduction
2	09-12-2020	4	network
3	05-01-2021	1	network analysis
4	07-01-2021	4	CPM/PERT
5	08-01-2021	2	construction of network
6	12-01-2021	1	problems
7	19-01-2021	4	problems
8	20-01-2021	2	problems
9	23-01-2021	1	problems
10	27-01-2021	4	problems
11	29-01-2021	2	PERT Network
12	02-02-2021	1	PERT network
13	04-02-2021	4	PERT network
14	05-02-2021	2	Sequencing Problem
15	09-02-2021	1	sequencing problems
16	11-02-2021	4	CIA I
17	12-02-2021	2	sequencing problems
18	16-02-2021	1	sequencing problems type 2
19	18-02-2021	4	sequencing problems type 3
20	19-02-2021	2	sequencing problem type 4
21	23-02-2021	1	inventory control
22	25-02-2021	4	inventory model problems
23	26-02-2021	2	inventory models
24	02-03-2021	1	queueing theory
25	04-03-2021	4	test
26	05-03-2021	2	queueing theory
27	09-03-2021	1	test
28	11-03-2021	4	problems
29	12-03-2021	2	problems
30	16-03-2021	1	problems
31	18-03-2021	1	queueing theory
32	18-03-2021	4	problems
33	19-03-2021	2	problems

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K.M.G COLLEGE OF ARTS AND SCIENCE

GUDIYATTAM

TEACHING PLAN FOR EVEN SEMESTER-2019

Faculty Name: A.M.Rajalakshmi

Department: Microbiology

Subject Name: Soil, Agricultural and Environmental

Subject Code: BMB62

Microbiology

S.No	Date	Topics	Teaching methods	Name of Tools	Reference
1.	04.12.2019 to 12.12.2019	Unit 1: Soil, Physical and chemical properties of soil, Types of Soil, Micro flora of the soil	Board and chalk	-	Introduction of Soil Microbiology – John viley and sons
2.	13.12.2019 to 20.12.2019	Unit 2 : Biogeochemical cycle – Carbon and Nitrogen, Phosphorus cycle, Sulphur cycle, Iron cycle	PPT	-	Atlas R.M and Bartha – Microbial Ecology 3 rd edition (Soil Microbbiology)
3.	02.01.2020 to 07.01.2020	Organic matter decomposition – Composting and Vermicomposting, Biopesticides – Bacterial, Viral and Fungal	PPT	-	Subba Rao N.S – Biofertilizer in agriculture and Forestry
4.	08.01.2020 to 28.01.2020	Unit 3: Microbial interaction between microorganisms, plants and animals, Rhizosphere and Phyllosphere, Rumen Microbiology	Board and chalk PPT	-	Subba Rao N.S (1995) – Soil Microorganisms and plant growth

5.	03.02.2020 to 08.02.2020	Unit 4: Microbiology of air, Sources of microorganisms in air, Assessment of air quality – air sampling technique, Air sanitation, Enumeration of air borne microorganisms, Air borne diseases.	PPT	-	Michelle R(1974) – Introduction to environmental microbiology
6.	10.02.2020 to 10.03.2020	Unit 5: Aquatic Microbiology, Ecosystems and Freshwater, Microbial assessment of water quality, Water purification, Water borne diseases – Prevention , Control and treatment, Solid and Liquid waste treatment	PPT	-	Atlas R.M and Bartha – Microbial Ecology 3 rd edition (Soil Microbiology) Subba Rao N.S (1995) – Soil Microorganisms and plant growth

A. H. Raj
Class in charge

Department of Microbiology,
K. M. G. COLLEGE OF ARTS AND SCIENCE
GUDIYATTAM-632 602 VELLORE DT

D. ...

HOD
HEAD OF THE DEPARTMENT.
Dept. Of Microbiology,
K. M. G. College of Arts & Science
GUDIYATTAM-635 313

Approved By

[Signature]
Principal
PRINCIPAL

K.M.G. COLLEGE OF ARTS & SCIENCE
GUDIYATTAM - 635 803.
VELLORE DISTRICT

K.M.G COLLEGE OF ARTS AND SCIENCE**GUDIYATTAM****TEACHING PLAN FOR ODD SEMESTER-2019****Faculty Name:** Mrs.A.M.Rajalakshmi**Department:** Microbiology**Subject Name:** Biological Techniques**Subject Code:** MAM34A

S.No	Date	Topics	Teaching methods	Name of Tools	Reference
1.	13.06.2019 to 14.06.2019	Introduction to Microscope and its basic components, Types of Microscope - Bright field , Dark field & Phase Contrast Microscope	PPT	-	Fundamentals of Microbiology, Text Book of Microbiology by Prescott's
2.	18.06.2019 to 20.06.2019	Fluorescence microscope, Electron microscope- SEM and TEM,	PPT	-	Fundamentals of Microbiology
3.	21.06.2019 to 24.06.2019	Atomic Force Microscope, Photomicrography and Video Micrography	PPT	-	Fundamentals of Microbiology
4.	26.06.2019 to 28.06.2019	Spectroscopy and its methods – UV-Visible and Atomic Absorption Spectrophotometer, Atomic Emission Spectroscopy	PPT	-	John G. Webster. (2004). Bioinstrumentation.
5.	01.07.2019 to 08.07.2019	Centrifugation – Principles and its types, Potentiometric, Conductimetric, Coulometric and Volumetric Analysis, Electrolytic all 4 galvanic	PPT	-	John G. Webster. (2004). Bioinstrumentation.

		cell, Radioactivity and its principles			
6.	09.07.2019 to 16.07.2019	Biosensor, GM Counter and LS Counter, Principles & Applications of Chromatographic Techniques, Adsorption Chromatography, Ion exchange and gel permeation, Affinity Chromatography	PPT	-	John G. Webster. (2004). Bioinstrumentation.
7.	17.07.2019 to 31.07.2019	Gas Chromatography and HPLC Chromatography, Electrophoresis Technique, Protein separation	PPT	-	John G. Webster. (2004). Bioinstrumentation. Basic Techniques in Molecular Biology, Springer.
8.	01.08.2019 to 13.08.2019	Separation of Nucleic Acid by Electrophoretic Technique, Immuno Electrophoresis and Two dimensional Electrophoresis	PPT	-	Basic Techniques in Molecular Biology, Springer.
9.	14.08.2019 to 22.08.2019	Microbiological technique for purification and storage	PPT	-	Basic Techniques in Molecular Biology, Springer.
10.	26.08.2019 to 30.08.2019	Isolation and amplification of Nucleic acid, Hybridization and its types	PPT	-	Old, R.S. and Primrose, S.B. (1995) Principles of Gene manipulation.
11.	10.09.2019 to 16.09.2019	Plasmid and Chromosomal DNA Isolation	PPT	-	Old, R.S. and Primrose, S.B. (1995) Principles of Gene manipulation.

12.	18.09.2019 to 24.09.2019	Methods for the detection of clones, Blotting Techniques	PPT	-	Old, R.S. and Primrose, S.B. (1995) Principles of Gene manipulation.
13.	25.09.2019 to 30.09.2019	Gene Cloning Technique, Gene Transfer Mechanism	PPT	-	Old, R.S. and Primrose, S.B. (1995) Principles of Gene manipulation.
14.	01.10.2019 to 11.10.2019	Revision	-	-	-
15.	21.10.2019 to 25.10.2019	Revision	-	-	-

A.M. Rajalakshmi
Class in charge

(Mrs.A.M.Rajalakshmi)

Department of Microbiology, Approved By
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GUDIYATTAM-635 803

2019-20

odd sem.

Batch : 2017-2020 Programme B: .Sc, Mathematics
 Faculty Name : MOGAN D Course : Mathematics for Competitive Examinations II
 Semester: FIFTH SEMESTER From : 13.06.2019 To : 30.10.2019

S.No.	Date	Hour	Portion Covered
1	17-06-2019	3	chain rule problems are solved
2	19-06-2019	2	chain rule problems are solved
3	20-06-2019	3	chain rule problems are solved
4	25-06-2019	2	chain rule problems are solved
5	26-06-2019	3	chain rule problems are solved
6	27-06-2019	3	time and work problems are solved
7	28-06-2019	3	time and work problems are solved
8	03-07-2019	5	time and work problems are solved
9	04-07-2019	3	time and work problems are solved
10	08-07-2019	3	time and work problems are solved
11	11-07-2019	2	time and work problems are solved
12	12-07-2019	1	time and work problems are solved
13	15-07-2019	4	time and work problems are solved
14	16-07-2019	3	time and work problems are solved
15	19-07-2019	2	Time and distance problems are solved
16	22-07-2019	1	C I A test
17	23-07-2019	4	time and distance problems are solve
18	25-07-2019	2	time and distance problems are solved
19	29-07-2019	4	time and distance problems are solved
20	30-07-2019	2	Time and distance problems are solved
21	31-07-2019	1	Time and distance problems are solved
22	01-08-2019	4	Time and distance problems are solved
23	07-08-2019	2	Time and distance problems are solved
24	08-08-2019	1	Time and distance problems are solved
25	13-08-2019	1	time and distance problems are solved
26	16-08-2019	2	Time and distance problems are solved
27	19-08-2019	3	Time and distance problems are solved
28	20-08-2019	1	problems on train
29	21-08-2019	4	Problems on train
30	28-08-2019	3	Problems on train
31	29-08-2019	1	Problems on train
32	30-08-2019	4	Problems on train
33	17-09-2019	3	Boats and stream problems are solved
34	18-09-2019	1	Boats and Stream problems are solved
35	19-09-2019	4	Boats and stream problems are solved
36	26-09-2019	1	Mixture problems are solved
37	27-09-2019	4	Mixture problems are solved
38	04-10-2019	3	Mixture problems are solved
39	09-10-2019	1	Mixture problems are solved
40	10-10-2019	4	Mixture problems are solved
41	23-10-2019	3	Mixture problems are solved
42	24-10-2019	1	Mixture problems are solved
43	25-10-2019	4	Mixture problems are solved

Batch : 2019-2021

Programme M. Sc., Mathematics

Faculty Name : MOGAN.D

Course : Ordinary Differential Equations

From : 13-06-2019

To : 10/30/2019

Semester : FIRST SEMESTER

S.No.	Date	Hour	Portion Covered
1	01-08-2019	5	Linear equation with variable coefficient
4	07-08-2019	5	Linear equation with variable coefficient
5	08-08-2019	4	introduction to ordinary differentials equations
6	09-08-2019	4	Linear equations with constant coefficient problem are solved
7	09-08-2019	5	Two dimensional with constant coefficient problem are solved
12	13-08-2019	4	Linear equation with constant coefficient problem are solved
14	14-08-2019	3	Initial value problem for second order equations problem are solved
15	16-08-2019	1	Existence and uniqueness theorem
16	16-08-2019	3	Linear dependence and independence problems are solved
20	19-08-2019	5	Wronskian of two function problem are solved
22	20-08-2019	4	The non homogeneous equation of order two
24	21-08-2019	5	The non homogeneous of first order problems are solved
26	22-08-2019	4	The non homogeneous of order two problems are solved
33	26-08-2019	3	Linear equation with constant coefficient
35	27-08-2019	1	Linear equations with constants coefficient
37	28-08-2019	5	Linear equations with constants coefficients
38	29-08-2019	4	IVP for nth order equations
39	30-08-2019	4	IVP for n th order equation problems are solved
40	30-08-2019	5	IVP for n th order equation problems are solved
11	12-09-2019	4	IVP for n th order equation problems are solved
13	13-09-2019	3	The non homogeneous equation of order n
17	16-09-2019	1	The non homogeneous equation of order n
18	17-09-2019	5	The non homogeneous equation of order n
19	18-09-2019	4	Linear equations with homogeneous
21	19-09-2019	5	Linear equations with homogeneous coefficient
23	20-09-2019	4	Linear equation with variable coefficient
28	23-09-2019	3	Linear equations with variable coefficient problems are solved
30	24-09-2019	1	Linear equations with variable coefficient problems are solved
34	26-09-2019	4	Linear equations with variable coefficient problems are solved
36	27-09-2019	5	Linear equations with variable coefficient problems are solved
41	30-09-2019	4	The homogeneous equations problems are solved
2	01-10-2019	3	The homogeneous equation with analytic coefficient problem are solved
3	04-10-2019	5	Legendre polynomial problems are solved
8	09-10-2019	4	Linear equations with regular singular point problems are solved
9	10-10-2019	5	Linear equation with Stress and strain
10	11-10-2019	4	Second order equations with regular singular points
25	21-10-2019	3	Bessel equation problems are solved
27	22-10-2019	1	Bessel equation problems are solved
29	23-10-2019	5	Exact equation problems are solved
31	24-10-2019	4	Exact equation problems are solved
32	25-10-2019	5	Exact equation problems are solved

Batch : 2018-2020
 Faculty Name : MOGAN.D
 From : 13-06-2019

Programme M. Sc., Mathematics
 Course : Fluid Dynamics
 To : 10/30/2019 Semester : THIRD SEMESTER

S.No.	Date	Hour	Portion Covered
1	13-06-2019	4	introduction fluid dynemis
2	14-06-2019	5	introduction fluid dynemis
3	17-06-2019	4	introduction fluid dynemis
4	18-06-2019	5	introduction fluid dynemis
5	19-06-2019	1	type of fluid, velocity of a fluid at a point, streamlines and path lines are explained
6	20-06-2019	2	explained the velocity potential and simple problems are solved
7	21-06-2019	4	the velocity vector,line,tube problems are solved
8	24-06-2019	5	circulation of a fluid velocity , local and particle rates of change problems are
9	25-06-2019	4	derive the equation of continuity
10	25-06-2019	5	continuity of a rigid boundry
11	26-06-2019	3	equation of fluid motion problems are solved
12	26-06-2019	5	euation of motion problems are solved
13	27-06-2019	1	presser at the point of moving fulid
14	27-06-2019	5	derive the pressure at the point of moving fluid
15	28-06-2019	2	pressure at a point of moving fluid problems are solved
16	01-07-2019	4	the pressure at a point in a moving fluid simple problems are solved
17	02-07-2019	5	bernoullis equation
18	03-07-2019	4	bernullies equation problems are solved
19	04-07-2019	5	measuring fluid velocity by use pitot tube
20	05-07-2019	1	measuring flow in a pipe using venturi tube
21	08-07-2019	2	some three dimensional flow
22	08-07-2019	4	doubled for three dimensional
23	09-07-2019	4	sources, sinks, doublets
24	10-07-2019	5	velocity potential for a simple source of strength
25	11-07-2019	4	the velocity potential for a doublet of a point
26	12-07-2019	5	library
27	15-07-2019	1	Doublet in a uniform stream
28	16-07-2019	2	Doublet in a uniform stream problems are solved
29	17-07-2019	4	Doublet in a uniform stream problems are solved
30	18-07-2019	2	Images in a rigid infinite plane
31	18-07-2019	5	Library
32	19-07-2019	4	Image in a rigid infinite plane problem are solved
33	22-07-2019	5	Image in a rigid infinite plane problem are solved
34	23-07-2019	1	Image in a rigid infinite plane problem are solved
35	25-07-2019	4	Image in a rigid infinite plane problem are solved
36	29-07-2019	2	Image in a rigid infinite plane problems are solved
37	29-07-2019	5	Image in a rigid infinite plane problems are solved
38	30-07-2019	4	Stokes stream function problems are solved
39	31-07-2019	3	Stokes stream function problem are solved
40	01-08-2019	1	Stokes stream function problems are solved
41	03-08-2019	2	The velocity component in stream function problem are solved
42	06-08-2019	5	Library
43	07-08-2019	4	

44	08-08-2019	5	The velocity and component interms of stream function problems are solved
45	09-08-2019	1	two dimensional flow problems are solved
46	13-08-2019	2	Complex velocity potential problem are solved
47	14-08-2019	1	Complex velocity potential for stream - two dimensional flow problem are solved
48	14-08-2019	4	Complex velocity potential for stream - two dimensional flow problem are solved
49	16-08-2019	4	Line sources and line sinks
50	19-08-2019	4	Line source and sink problem are solved
51	20-08-2019	5	The complex potential of a line doublet
52	21-08-2019	1	Line Doublet
53	22-08-2019	2	Uniform line vortex
54	26-08-2019	4	Uniform line vortex
55	27-08-2019	5	Two dimensional image
56	28-08-2019	4	Two dimensional of image
57	29-08-2019	5	Two dimensional image systems problems are solved
58	30-08-2019	1	Two dimensional image systems problems are solved
59	12-09-2019	2	
60	13-09-2019	4	Some applications of the circle theorem
61	16-09-2019	5	Some applications of circle theorem problem are solved
62	17-09-2019	4	Some application of circle theorem problem are solved
63	18-09-2019	5	Some applications of the circle theorem problem are solved
64	19-09-2019	1	Viscous Flow : stress components in a real fluid
65	20-09-2019	2	Stream component in a real fluid
66	23-09-2019	4	Translation motion of fluid elements
67	24-09-2019	5	Library
68	26-09-2019	5	Translational motion of fluid elements
69	27-09-2019	1	The rate of strain quadric and principal stresses
70	30-09-2019	2	Stress analysis in fluid motion
71	01-10-2019	4	Strain quatric problem are solved
72	03-10-2019	5	Strain quatric problem are solved
73	04-10-2019	4	Strain quatric problem are solved
74	09-10-2019	5	Relations between stress and rate of strain
75	10-10-2019	1	Relations between stress and rate of strain
76	11-10-2019	2	Motion of viscous fluid
77	21-10-2019	4	

2019-20

Even Sem

Batch : 2019-2021

Programme M. Sc., Mathematics

Faculty Name : MOGAN D

Course : Partial Differential Equations

From : 01-12-2019 To : 3/25/2020

Semester : SECOND SEMESTER

S.No.	Date	Hour	Portion Covered
1	02-12-2019	3	introduction
2	03-12-2019	1	introduction
3	04-12-2019	5	theorems
4	05-12-2019	3	problems
5	09-12-2019	5	
6	10-12-2019	3	Problem based on eliminating the arbitrary constants
7	11-12-2019	1	PDE by eliminate the arbitrary function
8	12-12-2019	5	Eliminating arbitrary function problems are solved
9	13-12-2019	3	Lagrange method problems are solved
10	16-12-2019	5	lagranges method problems are solved
11	17-12-2019	3	Integral surfaces passing through a given curve problems are solved
12	18-12-2019	1	Surfaces orthogonal to a given system of surfaces
13	19-12-2019	5	Cauchy method of characteristics problems are solved
14	20-12-2019	3	Cauchy method
15	02-01-2020	5	Cauchy methods problems are solved
16	03-01-2020	3	Cauchy methods problems are solved
17	04-01-2020	3	Charpits method problems are solved
18	06-01-2020	1	CAI. Test
19	07-01-2020	5	Putzer problems are solved
20	08-01-2020	3	Putzer problems are solved
21	09-01-2020	3	Cauchy problems are solved
22	10-01-2020	5	cauchy problems are solved
23	11-01-2020	3	canonical method
24	20-01-2020	3	Canonical form problem for hyperbolic
25	20-01-2020	5	Canonical form problem for hyperbolic
26	21-01-2020	3	Problems based on hyperbolic
27	22-01-2020	3	Problems based on hyperbola
28	23-01-2020	5	Problems based on parabola
29	24-01-2020	3	Problems based on elliptic
30	25-01-2020	1	Problem based on elliptic type
31	27-01-2020	5	Elliptic differential equation
32	28-01-2020	3	PDE laplace equation problem solved
33	29-01-2020	3	Derive the laplace equation in polar coordinate form
34	30-01-2020	5	Laplace problem in polar coordinates
35	31-01-2020	3	Dirichlet problem for a rectangle
36	03-02-2020	1	Newmann problems are solved
37	04-02-2020	5	Laplace equation in spherical coordiantes
38	05-02-2020	3	Laplace equation for spherical coordinates
39	06-02-2020	3	Steady temperature distribution within the cylinder
40	07-02-2020	5	Helmholtz equation
41	08-02-2020	3	Parabolic differential equation
42	10-02-2020	1	Separation of variable method
43	11-02-2020	5	Dirac delta function propertie
44	12-02-2020	3	Dirac delta function problems solved
45	13-02-2020	3	Dirac delta function problems are solved

46	14-02-2020	5	Dirac delta function problem are solved
47	24-02-2020	3	Dirac delta problem
48	25-02-2020	1	Diffusion equation problem are solved
49	26-02-2020	5	Diffusion equation in spherical coordinates
50	27-02-2020	3	Diffusion equation problem for spherical polar coordinate
51	28-02-2020	3	Hyperbolic differential equations for occurrence of the wave equation
52	29-02-2020	1	I V P of cauchy type
53	02-03-2020	5	One dimensional wave equation problem are solved
54	03-03-2020	3	Uniqueness of the solution for the wave equation
55	04-03-2020	1	Duhamel principle problem are solved
56	05-03-2020	5	Maxwell equation of electromagnetic theory problem are solved
57	06-03-2020	3	Maxwell equation of electromagnetic theory problem are solved
58	07-03-2020	5	
59	09-03-2020	3	
60	10-03-2020	5	

Batch : 2018-2020
 Faculty Name : MOGAN D
 From : 01-12-2019

Programme M. Sc., Mathematics
 Course : Difference Equations
 To : 3/25/2020 Semester : FOURTH SEMESTER

S.No.	Date	Hour	Portion Covered
1	02-12-2019	2	introduction
2	03-12-2019	3	introduction
3	04-12-2019	1	theorems
4	05-12-2019	1	theorems
5	06-12-2019	4	problems
6	09-12-2019	3	
7	10-12-2019	2	Linear difference equation of higher order
8	11-12-2019	3	The antidifference operator problems are solved
9	12-12-2019	1	General theory of linear difference equation
10	13-12-2019	1	Ables lemma
11	14-12-2019	4	Casoratian problems are solved
12	16-12-2019	3	Casoratian for linear independent and dependent problems are solved
13	17-12-2019	2	Linear homogeneous equation with constant coefficient problems are solved
14	18-12-2019	3	Linear Non homogeneous equation
15	19-12-2019	1	Linear Non homogeneous equation problems are solved
16	20-12-2019	1	Limiting behaviour of solution
17	02-01-2020	3	Limiting behaviour of solution
18	03-01-2020	2	Systems of linear difference equation
19	04-01-2020	2	Putzer algorithm problems are solved
20	06-01-2020	3	Putzer problems are solved
21	07-01-2020	1	CAI Test - I
22	08-01-2020	1	CAI Test
23	09-01-2020	4	Putzer problems are solved
24	10-01-2020	3	
25	11-01-2020	2	Putzer problems are solved by using 3 by 3 matrix
26	20-01-2020	1	Existence and uniqueness theorem
27	21-01-2020	1	
28	22-01-2020	4	
29	23-01-2020	3	Linear problems are solved
30	24-01-2020	2	Variation of constant based problems are solved
31	25-01-2020	3	
32	27-01-2020	1	Jordan form problems are solved
33	28-01-2020	1	Jordan form problems are solved
34	29-01-2020	4	Jordan form problem are solved
35	30-01-2020	3	Jordan form problem are solved
36	31-01-2020	2	" Z " Transform problems are solved
37	03-02-2020	3	" Z " transform problem are solved
38	04-02-2020	1	Z - Transform problems are solved
39	05-02-2020	1	Z - Transform problems are solved
40	06-02-2020	4	The inverse Z transform problems are solved

41	07-02-2020	3	The inverse Z -transform problems
42	08-02-2020	2	The inverse Z - transform problem are solved
43	10-02-2020	3	The inverse Z - Transform problems based for real roots
44	11-02-2020	1	The inverse Z - Transform problem based on complex roots
45	12-02-2020	1	The inverse Z transform problem based for complex roots
46	13-02-2020	4	The inverse Z transform theorem proved
47	14-02-2020	3	Asymptotic behaviour of difference equation
48	24-02-2020	2	Asymptotic behaviour of difference equation
49	25-02-2020	3	Poincare theorem
50	26-02-2020	1	Difference equation problem are solved by using poincare theorem
51	27-02-2020	1	ordinary dichotomy problem are solved
52	28-02-2020	4	Variation of constants theorem
53	29-02-2020	3	Higher order difference equation problem are solved
54	02-03-2020	3	Equilibrium points and oscillatory problem are solved
55	03-03-2020	2	Oscillatory problems are solved
56	04-03-2020	3	Self - Adjoint second order difference equation
57	05-03-2020	1	Self - adjoint second order equation problem are solved
58	06-03-2020	1	using Riccati transformations problem are solved
59	07-03-2020	1	Non - Oscillatory problem are solved
60	09-03-2020	4	
61	10-03-2020	3	

Batch : 2017-2020

Programme B: .Sc, Mathematics

Faculty Name : MOGAN.D

Course : Mathematics for Competitive Examinations III

Semester : SIXTH SEMESTER

From : 01.12.2019 To : 25.03.2020

S.No.	Date	Hour	Portion Covered
1	05-12-2019	4	problems
2	06-12-2019	1	problems
3	10-12-2019	5	S.I problems are solved
4	13-12-2019	4	S.I problems are solved
5	14-12-2019	1	S.I.problems are solved
6	17-12-2019	5	S.I .problems are solved
7	20-12-2019	4	S.I,problems are solved
8	03-01-2020	5	S.I.problems are solved
9	04-01-2020	5	S.I.problems are solved
10	08-01-2020	4	CAI.Test - I
11	09-01-2020	1	CAI . Teat I
12	11-01-2020	5	C.I.problems are solved
13	21-01-2020	4	C.I.problems are solved
14	22-01-2020	1	C.I.problems are solved
15	24-01-2020	5	C.I. problems are solved
16	28-01-2020	4	C.I.Problems are solved
17	29-01-2020	1	C.I.problems are solved
18	31-01-2020	5	C.I.Problems are solved
19	05-02-2020	4	C.I.problems are solved
20	06-02-2020	1	Log problems are solved
21	07-02-2020	2	Log problems are solved
22	08-02-2020	4	Log problems are solved
23	12-02-2020	4	Area problems are solved
24	13-02-2020	1	Area problems are solved
25	24-02-2020	5	Area problems are solved
26	27-02-2020	4	Area for rectangle problems are solved
27	28-02-2020	1	Area of rectangle problems are solved
28	03-03-2020	5	Area for rectangle problems are solved
29	06-03-2020	4	Area of square problem are solved
30	09-03-2020	1	Area of square problems are solved

Class : II-M.SC [MATHS]

Subject : Operations Research

Month	Week	Unit	Completion of Portions
June	13.6.18 to 15.06.18	UNIT-I	Integer Linear Programming Introduction - Types of Integer Linear Programming Problems - Explain concept of cutting plane - Graphical Problem - Explain steps of Gomory's all integer programming algorithm
	18.06.18 to 22.06.18	UNIT-I	Gomory's all Integer linear Programming (ILPP) flow chart Gomory's cutting plane - problems - Explain method for constructing additional constraint (cut). Gomory's Mixed Integer cutting plane method - Explain. - Problems solved
	25.06.18 to 29.06.18	UNIT-I	ALL Integer linear programming (ILPP) - Branch and Bound method - Steps of Branch & Bound method algorithm - problems $\text{Max } z = 2x_1 + 3x_2$ $\text{Subject to } 6x_1 + 5x_2 \leq 25$ $x_1 + 3x_2 \leq 10$ $x_1, x_2 \geq 0 \text{ \& are integers.}$
July	2.07.2018 to 6.07.2018	UNIT-I	Problems: solve the following all integer programming problems using branch and bound method $\text{Maximize } z = 3x_1 + 5x_2$ $\text{s.t. } 2x_1 + 4x_2 \leq 25$ $x_1 \leq 8$ $2x_2 \leq 10$ $\& x_1, x_2 \geq 0 \text{ \& integers}$ $\text{Minimize } z = 33x_1 + 2.5x_2$ $\text{s.t. } x_1 + 2x_2 \geq 20$ $3x_1 + 2x_2 \geq 50$ $x_1, x_2 \geq 0 \text{ \& integers}$

B
12/07/18

month	week	Unit	Completion of portions
July	9-7-18 to 13-7-2018	UNIT-I	Gomory's mixed integer cutting plane method Derivation - mixed integer cutting plane algorithm - by using solve problems
	16-07-2018 to 20-07-2018	UNIT-II	Dynamic Programming Characteristics of Dynamic Programming Problem - Developing optimal Decision Policy
	23-07-2018 to 27-07-2018	UNIT-II	Dynamic Programming under Certainty - multiplicative objective function and additional constraint - Additive objective function & multiplicative constraint - DP approach to solve LPP
	30-07-2018 to 3/08/2018	UNIT-IV	Revised Simplex method: Standard forms for revised Simplex method & solving the Problems
	6-08-2018 6-08-2018 to 10-08-2018	UNIT-IV	Revised Simplex method Computational Procedure for Standard form - I Derivation & Based on Problem Solving
August	13/08/2018 to 16/08/2018	UNIT-IV	Comparison of Simplex method & Revised Simplex Method. Bounded variables LP Problem Derivation - Simplex algorithm - Ⓢ - Problems Solving in this method

auth.	week	Unit	Completion of Portions
guest	20.08.2018 to 23.08.2018	UNIT-II	Classical optimization method: Unconstrained optimization Theorems - Necessary conditions for unconstrained derivation and Solving Problems $f'(x)=0$
	26.08.2018 to 31.08.2018	UNIT-III	Sufficient conditions for unconstrained derivation $f''(x) > 0$ x is local maximum if $f''(x) < 0$ x is local minimum if $f''(x) > 0$ and solving application Problems
embar	17.09.2018 to 20.09.2018	UNIT-IV	Constrained multi-variable optimization with Equality constraint Lagrange multiplier method - Necessary conditions - Lagrange multiplier method two cases (i) For single Equality constraint. (ii) For more than one equality constraint.
embar	24.09.2018 to 28.09.2018	UNIT-V	For single equality constraint Necessary & Sufficient condition derivatives - by using solve Problem For more than one equality constraint - derivation & solve Problem - Kuhn-Tucker Sufficient & Necessary conditions Non-linear programming methods: Examples of NLP - general NLP - graphical solution - Quadratic Programming

month	week	Unit	Completion of Portions
October	1.10.2018 3.10.2018 to 5.10.2018	UNIT-I	Decision Theory Steps in Decision Theory Approach - Types of Decision - Making Environments <u>Type-I</u> Decision - Making under certainty <u>Type-II</u> Decision - Making under Risk <u>Type-III</u> Decision - Making under uncertainty
	8.10.2018 to 12.10.2018	UNIT-II	Optimism (Maximax @ Minimin) Criterion Pessimism (Maximin @ Minimax) Criterion Equal Probabilities (Laplace) Criterion Coefficient of optimism (Hurwicz) Criteria - Regret Criterion Posterior Probabilities & Bayesian Analysis
	15.10.2018 to 17.10.2018	UNIT-2	Decision Tree analysis - Decision Making with costs utilities - Based on Problems

Basil

N. Ravi

Month	Week	Unit	Completion of Portions
June	13.06.2018 to 15.06.2018	UNIT-I	Graph Theory - Introduction - Basic Definition - Graphs - (P, q) graph & Example - Loop - multiple line - Multiple - graph - Pseudo graph & Example
	18.06.2018 to 22.06.2018	UNIT-I	Adjacent line, adjacent, incident graphs & Examples - Degree of vertex - Bigraph & Example - complete Bigraph $(K_{m,n})$ & Example - Petersen graph - Maximum $\Delta(G)$ degree - minimum $\delta(G)$ degree of the graph
	25.06.2018 to 29.06.2018	UNIT-I	k -regular graph & Example - Cubic graph & Example - Theorem ① $\sum d(v_i) = 2q$ - Proof - Theorem ② Let G be a k -regular graph complete bigraph, $k > 0$, then $ V_1 = V_2 $ Theorem - For any graph G , then $\delta(G) \leq \sum d(v) \leq \Delta(G)$.
	02.07.2018 to 06.07.2018	UNIT-I	Subgraphs - Spanning subgraphs Induced subgraph - Removal - Point of graph obtained subgraph - removal line of graph obtained subgraph Additional line of the graph & Example - <u>Theorem</u> : Prove that the maximum number of lines among all p -point graphs with no triangle is $\lfloor \frac{p^2}{4} \rfloor$

18/Minh

Month	week	Unit	completion of Portions
July	9.07.2018 to 13.07.2018	UNIT-I	Isomorphism - Definition & Example - automorphism - Complement graph - Self complement graph - Definition & Examples Theorem Proof
	16.07.2018 to 20.07.2018	UNIT-I & UNIT-II	Independent sets & coverings Definition & Examples Theorem: $\alpha + \beta = P$ & Proof line covering definition & Examples <u>Theorem</u> : $\alpha' + \beta' = P$ & Proof <u>line</u>
	23.07.2018 to 27.07.2018	UNIT-II	Intersection graphs & line graphs Adjacency matrix & incident matrix - Definition & Examples
August	30.07.2018 to 3.08.2018	UNIT-II	Operations of graphs Union, Sum, Product, composition Graphs definition & Examples Theorem: & Proof
	6.08.2018 to 10.08.2018	UNIT-II	<u>Degree Sequences</u> Partition - Graphical Partition Definition & Examples (5) Problems Solved - Graphical Sequence - modified Partition Theorem & Proof
August	12.08.2018 to 16.08.2018	UNIT-III	connectivity - walk, trail, & path - definitions & Examples Theorem & proof, one problem Solved
	20.8.2018 to 23.08.2018	UNIT-III	connected & disconnected definitions & Examples Theorem & proof If G is not connected, then \bar{G} is connected.

Month	Week	Unit	Completion of Portions
August	26.8.2018 to 31.8.2018	UNIT-III	Cut point - Bridge - Definitions & Examples - Let v be a point of connected graph G . The following statements are equivalent (i) v is a cut point of G . (ii) \exists a partition of $V - \{v\}$ into subsets U & W s.t. each $u \in U$ & $w \in W$, the point v is on every $u-w$ path - Theorem & Proof
September	17.09.2018 to 20.09.2018	UNIT-III	Blocks - Definition & Examples Theorem & Proof
			<u>Connectivity</u>
September	24.09.2018 to 28.09.2018	UNIT-IV	Point connectivity & line connectivity $k(G)$ @ $\lambda(G)$ - Definitions & Example <u>Theorem</u> : $k \leq \lambda \leq \delta$ & Proof - n -connected Definition & Example based on theorem Proof:
October	1.10.2018 to 5.10.2018	UNIT-IV	<u>Eulerian graphs & Hamiltonian graphs</u> : Eulerian Trail - Definition & Examples Eulerian graph - Definition & Examples Based on Theorem & Lemma Proof Hamiltonian path - Definition & Examples Hamilton cycle & Hamilton graph Definition & Examples based on theorem Proof
October	8.10.2018 to 12.10.2018	UNIT-IV & UNIT-2	State & prove Dirac sufficient condition for a graph to be Hamiltonian Definition for closure of a graph $C(G)$ Based on theorem Bondy & Chvatal <u>Trees</u> Acyclic graph & Tree Definition & Examples - Forest - Characterization theorem of a tree

B.V.

~~Connectivity~~

Month	week	Unit	Completion of Partings
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October
 15.10.2018
 +
 17.10.2018

UNIT-V

Let G be a (P₂) graph
 The following statements are equivalent
 (i) G is a tree
 (ii) Every two points of G are joined by a unique path
 (iii) G is connected & $P_2 = 2n-1$
 (iv) G is acyclic & $P_2 = 2n-1$
Proof - Corollary proof

Centre of a tree

Eccentricity: Definition & Examples
 central point - centre of a tree
 Based theorem & proof

Build

N Proof

[2018-2019]

Class: I-M.Sc [MATHS]

Subject: Real Analysis-I

Month	Week	Unit	Completion of Portions
August	9.8.2018 10.8.2018	UNIT - I	The Riemann - Stieltjes Integral Introduction - Notation - $I(P, f) = \sum_{k=1}^n f(t_k) \Delta x_k$ where $t_k \in [x_{k-1}, x_k]$ - The definition of the Riemann - Stieltjes integral - Linear Properties: If $f \in R(\alpha)$ on $[a, b]$ & $g \in R(\alpha)$ on $[a, b]$, then $(c_1 f + c_2 g) \in R(\alpha)$ on $[a, b]$ $\int_a^b (c_1 f + c_2 g) d\alpha = c_1 \int_a^b f d\alpha + c_2 \int_a^b g d\alpha$ - Proof
August	13.8.2018 14.8.2018 16.8.2018	UNIT - II	Integration by Parts theorem Statement - Proof - Change of variables in a R-S integral - theorem Statement & Proof - Reduction to a Riemann integral theorem proof
August	20.8.2018 to 23.08.2018	UNIT - II	Euler's summation formula - statement & Proof - Monotonically increasing - upper and lower Sum definitions - Riemann - Stieltjes upper and lower integrals Definition $\int_a^b f d\alpha$ & $\int_a^b f d\alpha$ Additive & linearity Properties of upper & lower integrals
August	26.08.2018 to 31.08.2018	UNIT - III	Integrators of bounded variation - Sufficient condition for the existence of R.S. Integrals. Necessary conditions for the existence of R-S. integrals
August	17.09.2018 to 20.09.2018	UNIT - III	Mean value theorems for R.S integrals as a function of the interval. Second fundamental theorem of Riemann - Stieltjes integrals - Theorem Proof - Change of variable in Riemann integral
August	24.09.2018 to 28.09.2018	UNIT - III	Second mean value theorem for R.S. integral - Riemann - Stieltjes integrals depending on a parameter - Differentiation under the integral sign

Month	Week	Unit	Completion of Portions
October	1.10.2018 to 5.10.2018	UNIT-I	<p>Functions of Bounded Variation Introduction - Properties of Monotonic functions - functions of bounded Variation - total variation definition Based on theorem - additive property of total Variation</p>
	8.10.2018 to 12.10.2018	UNIT-I & UNIT-II	<p>Total Variation on $[a, x]$ as a function of x - Functions of bounded Variation expressed as the difference of two increasing functions - continuous functions of bounded Variation</p> <p><u>Infinite Series & Infinite Products</u> - Absolute & Conditional convergence - Dirichlet's test & Abel's test - Rearrangement of Series - Riemann's theorem on conditionally convergent Series.</p>
October	15.10.2018 to 17.10.2018	UNIT-III	<p>Double Sequences - Double Series - Rearrangement theorem for double Series - A sufficient condition for equality of iterated Series - Multiplication of Series - Cesaro Summability - Infinite Products.</p>
October & November	27.10.2018 to 29.10.2018 to 2.11.2018	UNIT-IV	<p><u>Sequences of Functions</u> Pointwise convergence of Sequences of functions - Examples of Sequence of real valued functions - Definition of uniform convergence - uniform convergence & continuity</p>

[2018-2019]

class: IP - M.Sc (MATHS)

Subject: Number Theory & cryptography

month	week	Unit	completion of portions
December	02.12.2018 to 7.12.2018	UNIT-I	Elementary Number Theory Time estimates for doing Arithmetic - Integer in Difference bases - Definition & Example - Fractions in Difference bases - Definition & Examples - Problems Convert $(11001001)_2$ to the base 10 - convert $(SAD)_{26}$ into base 10 - convert $(IAD)_{26}$ into base 10 - Convert $(B.AD)_{26}$ into base 10.
December	17.12.2018 to 22.12.2018	UNIT-I	Algorithm to convert a number (n) to the base 10 into any base $b \neq 10$ by using Problems - solve Convert 10^6 to the bases 2, 7, & 26 [using the letters A-Z as digits in the letter case] Algorithm to convert a fractional in the base 10 to any base $b \neq 10$ $b > 0$ by using solve problems - convert $\pi = 3.1415926 \dots$ to the base 2
	24.12.2018 26.12.2018 to 28.12.2018 to 29.12.2018 to 31.12.2018	UNIT-I	Basic problems solve (i) multiply 160 and 199 in the base 7 (ii) multiply $(712)_3$ by $(122)_3$. multiply YES by NO (problem - Binary Subtracting working rule - Divided $(11001001)_2$ by $(100111)_2$ Divided $(HAPPY)_{26}$ by $(SAD)_{26}$

Month	Week	UNIT	Completion of Portions
January	02.01.2019 to 04.01.2019	UNIT-I	The number of bit operations required to compute $n!$ - Book work solved. No. of bit operations required multiply polynomial solved - Find an upper bound for the no. of operations $n!$ solved - Bookwork
January	07.01.2019 to 12.01.2019	UNIT-I	Big O-Notation - Estimate time required to convert a k -bit integer n to its representation in the base b . Solved the Euclidean algorithm & solved by Problem 9.6 (LGA). Applications to factoring
	18.01.2019 to 19.01.2019		
	21.01.2019 to 25.01.2019	UNIT-II	<u>Cryptography</u> Definition of Cryptography Some simple cryptosystems plain text, cipher text, Enciphering Deciphering - cryptosystem.
January	28.01.2019 to		Julius caesar's cryptosystem
February	01.02.2019	UNIT-II	$C = f(P) \equiv P + b \pmod{N}$ $P = f^{-1}(C) \equiv C - b \pmod{N}$ based problems

Month	Week	Unit	Completion of Portions
October	1st week		Fourier Series and Fourier Integrals
October	03.11.2018	UNIT-I	Basic definitions & results - orthogonal systems of functions - Definition of an orthogonal & orthonormal. The theorem on Best approximation - Result - Theorem & proof - The Fourier Series of a function relative to an orthonormal system - Definition - Bessel's inequality & Parseval's formula theorem
	7.12.2018		Riesz-Fischer Theorem - The convergence & Representation problems for Trigonometric Series - Riemann Lebesgue Lemma Theorem - Lebesgue integral or the right exists theorem. Definition of Dirichlet's Integrals - Jordan's theorem - Dini's theorem - An integral representation for the partial sums of a Fourier Series - Periodic Dirichlet's kernel - Derive an integral representation for the means of the partial sums of Fourier series - Riemann's localization theorem - Jordan's Test - Dini's Test - Cesaro Summability of Fourier Series - Fejer kernel - Fejer's theorem - The Weierstrass approximation Theorem.
	17.12.2018		
	22.12.2018	UNIT-II	
	26.12.2018	UNIT-I	
	31.12.2018		

month	week	UNIT	Completion of Portions
January	02.01.2019 to 04.01.2019	UNIT-II	Multi-variable Differential Calculus Introduction - The Directional derivative - the total derivative
January	07.01.2019 to 12.01.2019	UNIT-II	The total derivative expressed in terms of partial derivatives The matrix of linear functions The Jacobian matrix - The Chain rule
January	18.01.2019 to 25.01.2019	UNIT-II	The Chain rule - matrix form of chain rule - The mean value theorem for differentiable functions - important result
January x February	28.01.2019 to 01.02.2019	UNIT-II	A sufficient condition for equality of mixed partial derivatives - Taylor's theorem for functions of \mathbb{R}^n to \mathbb{R}^1
February	04.02.2019 to 08.02.2019	UNIT-IV	<u>The Lebesgue - Integral</u> Length of open sets & closed sets - Inner & outer measure Definitions - measurable sets

Month	Week	UNIT	Completion of portions
February	11.02.2019 to 15.02.2019	UNIT-IX	Measurable functions - Definitions Existence of the Lebesgue integral for bounded functions The Lebesgue - Integral Properties of the Lebesgue integrals

Week	UNIT	Completion of portions
1 st week 17.12.2018 to 22.12.2018	UNIT-I	<u>Network Analysis</u> Definition - Network Scheduling by CPM/PERT - Activity - event Dummy Activity - event - Rules of Network construction
4 th week 24.12.2018 to 28.12.2018	UNIT-I	Application of CPM & PERT Technique - Construction of Network - Three types Project network diagram - critical path method - EST - EFT - LST & LFT - Definitions
1 st week 31.12.2018 to 4.01.2019	UNIT-I	Float - Definition - total float Free float - Independent float 1 st type of Problem solved
2 nd week 7.01.2019 to 12.01.2019	UNIT-I	network - 2 nd type of problem Solved - 3 rd type of problem Solved based on CPM & total float.
5 th & 6 th week 18.01.2019 to 25.01.2019	UNIT-II	<u>PERT - Computations</u> Definitions - Three types of time estimates (i) optimistic time (t_o) (ii) pessimistic time (t_p) (iii) most likely time (t_m)

month	week	UNIT	Completion of portions
February	04.02.2019 to 08.02.2019	UNIT-I	<p>Expected time (t_e) -</p> $S.D = \sigma = \frac{t_p - t_o}{6}$ <p>Variance for the activity is given $V = \sigma^2 = \left(\frac{t_p - t_o}{6}\right)^2$</p>
February	11.02.2019 to 15.02.2019	UNIT-II	<p>Probability of meeting the Schedule time</p> $P\left(z \leq \frac{x - t_e}{\sigma_z}\right)$ <p>Based on Problems sheet.</p>

class: II M.Sc. Maths
 Subject: Complex Analysis I

Month	Week	UNIT	Completion of portion/topics
June (14.06.17)	14.06.17 to 16.06.17	I	Introduction - Analytic func. & c.g. gns/; Arcs & closed curve - Differenti able Arcs - Index of a pt. w.r. to a closed curve Properties
	19.06.17 to 23.06.17		Cauchy's Integral formula - theorems Applications & Problems. Assignments worked in the Problems
July (03.07.17)	27.06.17 to 30.06.17 03.07.17 to 07.07.17		Morera's theorem Cauchy's estimate & inequality, Liouville's theorem Fundamental theorem of Algebra Singularities & Problems Taylor's theorem

Month	Week	UNIT	Completion of Portions / Topics
July	10.07.17 to 15.07.17	I	Integral form of the Taylor's remainder theorem, Zeros & Poles - Definitions & Problems solved, Assignment given to the students & test conducted Weierstrass theorem on essential singularity
July	17.07.17 to 21.07.17	I	Local mapping theorem Maximum modulus Principle - Schwarz lemma - Cauchy Integral formula Problems Resolved Assignment given to the students & orally questions asked
July	24.07.17 to 27.07.17	II	chains and cycles Connected regions theorems taken & discussed the subject with illustrative examples - General form of Cauchy's theorem

Week	Unit	Completion of portions/Topics
01.08.2017 to 05.08.2017	II	The general form of Cauchy's theorem - locally exact differentials - Multiply connected regions and Problems solved - Quiz tests (written tests)
07.08.17 to 12.08.17	II	Residue theorem and applications - properties are verified - the argument principle and solved Problems and quiz assignment to the students
16.08.17 to 21.08.17	III	Evaluation of definite integrals and harmonic functions and basic property - solved Problems and seen theorems and verified the laws and quiz assignment to the same topics
01.09.17 to 04.09.17 to 09.09.17	III	Mean value property Poisson formula Solved Problems to the students and discuss the subject in the same topics

Week Unit Completion of Portions

11.09.17

to

IV

Harmonic functions and
Power series expansions
Schwarz theorem - the
reflection principle - theorems
lemma and definitions
Problems.

18.09.17

18.09.2017

to

IV

Weierstrass theorem
Taylor's series - problems
and theorems - definitions

22.09.17

03/10/17

to

IV

Taylor's theorem -
Problems - Laurent
Series - Problems &
theorems

06/10/17

09/10/17

to

V

Partial fractions
and entire functions
Partial fractions
definitions and
Problems

13/10/17

Week Unit Completion of Portion

16. 10. 19, V Infinite Products
20. 10. 17. theorems and properties
Gamma function

01/11/17 V Jensen's formula
&
Hadamard's the
03/11/17 Problems

N. Rain

Class : III B. Sc. Maths

Subject : Abstract Algebra

Month : June

Week : 14.06.17 to 16.06.17

UNIT : I

Lesson & Completion of Portions/Topics

Introduction - Group - definition
examples - Identity element of
a Sp/: - Inverse element of
a Sp/: and its properties

Week : 19.06.17 to 23.06.17

Lesson : Abelian Sp/: and examples
Non abelian Sp/: and examples
order of a Sp/: - theorems in
abelian Sp/:

Week : 27.06.17 to 30.06.17

Lesson : Theorems followed in groups
with examples - Properties followed
in a group & assignment is
given in a group & abelian
Sp/ & problems in simplification

Week : 03.07.17 to 07.07.17

Lesson : Subgroups & its Defn/
example of a subsp/
Theorems in a subsp/

Month	Week	UNIT	Completion of Portions/TOPICS
July	10.07.17 to 14.07.17	I	Lagranges theorem and its applications - examples and assignment given to students & orally asked questions & resolved problems.
July	17.07.17 to 21.07.17	I	Eulers theorem and Fermats theorem & explained relatively primes, prime numbers concepts - Defn: of cyclic gp: & examples, discussed the applications cyclic gp: theorems & its applications completed.
July	24.07.17 to 27.07.17	II	Counting Principle and its theorems are seen and discuss the properties and solved the problems in this same topics

Week	Unit	Completion of portions/topics
08.17 to 08.17	<u>II</u>	$N(a)$ is a subgroup i.e., Normalizer is a subsp ^o of G and $Z(G)$ -centre is a subsp ^o of G and examples problems and theorems are solved and proved
08.17 to 08.17	<u>II</u>	Normal subsp ^o and its examples are discussed and (studied) taught theorems to the students and verified the properties and given assignments to the same topics to the students
08.17 to 08.17	<u>II</u>	Completed the Quotient Group G/N and verified the laws in G/N and forms a sp ^o of G/N Theorems are verified problems are solved giving micro-tests to the same topics.

Neep	Unit	Completion of portions
04.09.17 to 09.09.17	<u>II</u>	Homomorphism of a group G into G and its properties, applications, theorems are proved and verified, solved the problems in the same topics.
11.09.2017 to 15.09.2017	<u>III</u>	Groups continuation - Automorphisms - Problems - definitions - Cayley's theorem - Permutation groups - odd permutation even permutation - theorems
18.09.2017 to 22.09.2017	<u>IV</u>	<u>Rings</u> : definition and examples - integral domain Problems and theorems
25.09.17 to 29.09.17	<u>IV</u>	Theorems in Homomorphism of rings - Ideals and Quotient rings - Problems and theorems in Ideals and Rings

Unit

Completion of portions

V

Rings continuation -
Prime ideal and maximal
ideal - Problems and
theorems - Lemma &
ideal problems

V

The field of quotients
of an Integral domain
Euclidean rings - Problems
Definitions and theorems
Solved Problems

Rain

Class : III B.Sc. Maths

Sub : Linear Algebra (VI semester)

<u>Week</u>	<u>UNIT</u>	<u>Completion of portion</u>
26.12.17 to 29.12.17	I	Introduction about the subject Vector space - Definition and examples - Subspace Definition and examples Subspace - theorems & Problems - Properties
02.01.18 to 05.01.18	I	Properties in Subspace Internal Direct sum external Direct sum definitions & theorems
08.01.18 to 11.01.18	I	Isomorphism - Homomorphism Kernel of Homomorphism Linear Transformation Defn: & theorems
17.01.18 to 20.01.18	I	Linear Independence & Linear Dependence with Examples - Theorems & Problems solved
23.01.18 to 25.01.18	II	Inner Product space - Defn Examples - Norm of a Vector space - Properties - theorems
29.01.18 to 31.01.18	II	Cauchy's Schwarz Inequality Triangular Inequality parallelogram theorem Pythagoras theorem

Week	Unit	Completion of portion
01.02.18 & 02.02.18	<u>II</u>	orthogonalization & norm norm theorems & lemma applications
05.02.18 & 10.02.18	<u>III</u>	Algebra of linear theorems, problems & characteristic roots
12.02.18 to 16.02.18	<u>III</u>	Eigen values & sign theorems - Polynomials applications & Problems
19.02.18 to 24.02.18	<u>IV</u>	Linear transformation matrices, canonical form Triangular forms
26.02.18 to 02.03.18	<u>IV</u>	Theorems, lemma, problem solving in the topics matrices, canonical form Triangular forms & Applications are complete
05.03.18 to 21.03.18	<u>V</u>	Linear transformation Conjugate transpose transpose, Determinants
12.03.18 to 16.03.18	<u>V</u>	properties, Cramer's R & theorems in Determinants Problems & Lemmas Applications are followed

class II
week Unit completion of portion

19-3-18 1, 2, 3, 4 having model examinations
to (all 45 units) Conducted & making assignments
24-3-18 to the students

26-3-18 IV Solving simple Problems &
to Revision & conducting tests
22-3-18 & seminar taken by
students

22-04-18 V Solving simple Problems &
to Revision & conducting tests
06-04-18 & Assignment submitted
by students.

09-04-18 (1, 2, 3, 4 & 5) All having revision tests
to units

13-04-18

UNITS I, II
III, IV & V

Portions completed

N. Basu

class: II M.Sc. maths

Sub: Complex Analysis II (IV semester)

Week	Unit	Completion of Portion
07.12.17 & 08.12.17	I	Introduction about the subject Product development - Extension of $q(z)$ to the whole plane - the zeros of zeta $\zeta(z)$ Equi continuity
21.12.17 & 22.12.17		
29.12.17 & 30.12.17	I	Normality & compactness Arzela's theorem - families of analytic $f_n(z)$ - the classical test
02.01.18 05.01.18	II	statement and proof of Riemann mapping theorem & Problems
08.01.18 11.01.18	II	Boundary Behaviour - use of the Reflection Principle
17.01.18 to 20.01.18	II	Conformal mappings of polygons behaviour at an angle Schwarz christoffel formula mapping on a rectangle
22.01.18 to 25.01.18	II (CONTINUED)	Harmonic $u(x,y)$ functions with mean value property Harnack's Principle
29.01.18 to 31.01.18	III	Elliptic $f(z)$ & Problems - theorems - lemmas
01.02.18 to 02.02.18	III	Simply periodic $f(z)$ & Problems
05.02.18 & 06.02.18	III	Doubly periodic $f(z)$ & its problems, theorems & lemmas

week	unit	completion of portions
12-02-18 to 16-02-18	W	Weierstrass theory - the Weierstrass - f - g - h - the forms f_3 , $g_4(z)$ and the differential eqns - the modular eqns
19-02-18 to 24-02-18	W	the conformal mapping by $\lambda(z)$
26-02-18 to 02-03-18	V	Analytic continuation - the Weierstrass theory germs and sheaves - sections and Riemann surfaces
05-03-18 to 11-03-18	V	Analytic continuation along arcs Homotopic curves & theorems, Problems solved
12-03-18 to 16-03-18	V	The monodromy theorem Branch points, Problems
19-03-18 to 24-03-18	→	Model examinations conducted & marking assignment prepared by students & taking revision
26-03-18 to 28-03-18	IV	Solving simple problems & revision & conducting tests & discussion are made
02-04-18 to 06-04-18	V	Revision all theorems & Problems & marking tests & assignment submission
09-04-18 to 13-04-18	→	Discussing the university Can. papers & written tests are made

London updated
N. Kuris