



# Sadakathullah Appa College

(AUTONOMOUS)

Rahmath Nagar Tirunelveli - 627 011.

## LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course : B.Sc

Class :

Academic Year : 2016 - 2017 Semester : V

Title of the Paper : Combinatorial Mathematics

Subject Code : ISUMAESA

Theory / Practical

Name of the Teacher : Karthika Begam

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1	6/12/16 A	I	Syllabus & Introduction	Covered
2	7/12/16 B		Permutation & Combination	Covered
3	8/12 C		Problems in nPr	Covered
4	9/12 D		" " nCr	Covered
5	14/12 E		Relation bet nCr & nPr	Covered
6	15/12 F		Binomial theorem expansion	Covered
7	16/12 A		Problems in Binomial theorem	Covered
8	19/12 B		Problems using Identities	Covered
9	20/12 C		Problems using Identities	Covered
10	21/12 D		Pascal's triangle	Covered
11	22/12 E		Pascal's triangle & related Prob	Covered
12	27/12 F		Exercise Problems	Covered
13	28/12 A		Exercise Problems	Covered
14	29/12 B		University qn paper (discussion)	Covered
15	30/12 C		University qn paper (Test)	Covered

Text books :

1. A first Course in Combinatorial
2. Mathematics by Ian Anderson

Reference books :

1. Introduction to
2. Combinatorics - C. I. Liu

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment	3	Problems in nCr, nPr	Assignment Problems	Koch's Polygon		
Internal Test		I <sup>st</sup> Test Portions Unit I	II <sup>nd</sup> Test Portions Unit II & III	III <sup>rd</sup> Test Portions Unit IV		

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(AUTONOMOUS)

Rahmath Nagar, Tirunelveli - 627 011.

## LESSON PLAN AND RECORD OF CLASSES ENGAGED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
16	31/12	D	Exercise Problems	Covered
17	2/1/17	F	Exercise Problems	Covered
18	3/1	F	Ex Problems	Covered
19	4/1	A	<u>II</u> Pairing Problems	Covered
20	5/1	B	Pairing within set	Covered
21	6/1	C	Pairing - Examples	Covered
22	9/1	D	Pairing <u>set</u> set	Covered
23	10/1	E	Thm in pairing	Covered
24	11/1	F	Latin square & rectangle	Covered
25	17/1	A	Philip's Hall's Thm	Covered
26	18/1	B	Test (Latin rectangle)	Covered
27	19/1	C	Test in Pairing thm	Covered
28	20/1	D	Assignment Problems	Covered
29	23/1	F	Assignment Problems	Covered
30	24/1	F	Assignment Problems	Covered
31	25/1	A	Max-Min thm	Covered
32	30/1	B	Exchange Property	Covered
33	31/1	C	Class test (Max-Min thm)	Covered
34	1/2	D	Class test (Assignment Prob)	Covered
35	2/2	E	Qn paper discussion	Covered
36	3/2	F	Qn paper discussion	Covered
37	6/2	A	<u>III</u> Recurrence Relation	Covered
38	7/2	B	Problems in Recurrence Rel	Covered
39	8/2	C	Fibonacci sequence	Covered
40	9/2	D	Fibonacci seq thm	Covered

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Sl.No.	Date & Order	Unit	Topics planned	Covered on
41	10/2 E		Ex. Problems	Covered
42	11/2 F		Ex. Problems	Covered
43	13/2 A		Ex. Problems	Covered
44	14/2 B		class test (Rec. Relatn)	Covered
45	15/2 C		class test (Fibonacci)	Covered
46	16/2 D		Problems in derangement	Covered
47	17/2 E		Problems in derangement	Covered
48	20/2 F		Ex. Problem in derangement	Covered
49	21/2 A		Problem in derangement	Covered
50	22/2 B		Partition of <u>nos</u> (odd part)	Covered
51	23/2 C		Partition of <u>nos</u> (distinct)	Covered
52	24/2 D		Results in Partition of <u>no</u>	Covered
53	27/2 E		class test (Partition)	Covered
54	28/2 F		On paper discussion	Covered
55	01/3 A		On paper discussion	Covered
56	2/3 B	<u>W</u>	Inclusion - Exclusion Principle	Covered
57	3/3 C		Problems in Inc. Excl. Prncpl	Covered
58	6/3 D		Rock poly	Covered
59	7/3 E		Problems in Rock poly	Covered
60	8/3 F		Problems in Rock poly	Covered
61	9/3 A		Problems in Rock poly	Covered
62	10/3 B		Ex. Problem " "	Covered
63	11/3 C		Word Problem	Covered
64	13/3 D		Word Problem	Covered
65	14/3 E		Test (Rock poly)	Covered

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**LESSON PLAN AND RECORD OF CLASSES ENGAGED**

Sl.No.	Date & Order	Unit	Topics planned	Covered on
66	15/3 F		Word Problems (Book only)	Covered
67	16/3 A		Word Problem (Book only)	Covered
68	17/3 B		Class test	Covered
69	20/3 C		class test	Covered
70	21/3 D		Test in Inc. Ex. Princ.	Covered
71	22/3 E		Ex Problems	Covered
72	23/3 F		Ex Problems	Covered
73	24/3 A	V	Block design	Covered
74	27/3 B		Incidence matrix	Covered
75	28/3 C		Finite Projective plane	Covered
76	30/3 D		Thm in Finite Proj. plane	Covered
77	31/3 E		Fisher's thm	Covered
78	3/4 F		Fisher's thm (continuation)	Covered
79	4/4 A		Results in Block design	Covered
80	5/4 B		Results in Block design	Covered
81	6/4 C		Thm in Block design	Covered
82	7/4 D		Thm in Block design	Covered
83	10/4 E		Thm in Block design	Covered
84	11/4 F		Properties of projective plane	Covered
85	12/4 A		Thm " There is no finite	Covered
86	13/4 B		Projective plane of order 6"	Covered
87	18/4 C		Continuation	Covered
88	19/4 D		Ex Problems	Covered
89	20/4 E		Revision (Qn paper)	Covered
90	21/4 F		Revision (Qn paper)	Covered

  
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**SADAKATHULLAH APPA COLLEGE (AUTONOMOUS), TIRUNELVELI 627 011**  
**LESSON PLANNED AND RECORD OF CLASSES ENGAGED**

Course: B.Sc (Mathematics)      Class: III      Academic Year: 2016 – 2017      Semester: V

Title of the Paper: LINEAR PROGRAMMING      Subject Code: 11SEMA51      Theory / Practical

Sl.No	Date	Order	Unit	Topics Planned	Covered On
1	16/6	A	I	Linear Programming problem	Covered
2	22/6	E	I	Mathematical Formulation	Covered
3	23/6	F	I	Graphical solution method	Covered
4	24/6	A	I	Illustration	Covered
5	29/6	E	I	simple problems	Covered
6	30/6	F	I	simple problems	Covered
7	1/7	A	I	sample problems	Covered
8	13/7	E	I	sample problems	Covered
9	14/7	F	I	Revision	Covered
10	15/7	A	II	General linear programming problem	Covered
11	20/7	E	II	Canonical form of LPP	Covered
12	21/7	F	II	standard form of LPP	Covered
13	22/7	A	II	Simplex Method	Covered
14	28/7	E	II	Computational procedure	Covered
15	29/7	F	II	Simplex Algorithm	Covered

**TEXT BOOK:**

1. Operation Research by Kanti Swarup, P. K. Gupta, Man Mohan -fourteenth edition 2008 – Sultan Chand & Sons, Educational Publisher, New Delhi.

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
	3	Unit 1-1.5	Unit 1.5-3	Unit 4,5	1/7 24/8 6/10	Sum date
Assignment Test	3	I <sup>st</sup> Test Portion	II <sup>nd</sup> Test Portion	III <sup>rd</sup> Test Portion	4/7	Sum date
		Unit 1-1.5	Unit II: 1.5-3	Unit 4,5	24/8 6/10	

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**LESSON PLANNED AND RECORD OF CLASSES ENGAGED**

Sl. No	Date	Order	Unit	Topics Planned	Covered On
16	30/7	A	II	Sample problems	Covered
17	4/8	E	II	Sample problems	Covered
18	5/8	F	II	Revision	Covered
19	8/8	A	III	Duality	Covered
20	12/8	E	III	General primal, Dual Pair	Covered
21	13/8	F	III	Formulations a Dual problem	Covered
22	17/8	A	III	Primal, Dual pair in matrix form	Covered
23	22/8	E	III	Complementary Slackness Theorem	Covered
24	23/8	F	III	Duality and Simplex Method	Covered
25	24/8	A	III	Sample problems	Covered
26	30/8	E	III	Sample problems	Covered
27	31/8	F	III	Revision	Covered
28	1/9	A	IV	Transportation, LP formulation of Transportation problem	Covered
29	8/9	E	IV	Existence of solution, Transportation Table, Loops	Covered
30	9/9	F	IV	Solution of Transportation problem	Covered
31	15/9	A	IV	Finding an Initial Basic feasible solution	Covered
32	20/9	E	IV	Test for optimality	Covered
33	21/9	F	IV	Transposition Algorithm (MODI Method)	Covered
34	22/9	A	IV	Solution of Transportation problem	Covered
35	28/9	E	IV	Finding an Initial Basic feasible solution	Covered
36	29/9	F	IV	Test for optimality	Covered
37	30/9	A	V	Assignment problem	Covered
38	6/10	E	V	Mathematical formulation	Covered
39	7/10	F	V	Solution of Assignment problem	Covered
40	13/10	A	V	Hungarian Method	Covered

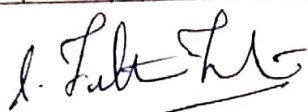
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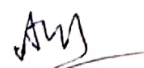
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LESSON PLANNED AND RECORD OF CLASSES ENGAGED

Sl. No	Date	Order	Unit	Topics Planned	Covered On
41	19/10	E	V	Sample problems	Covered
42	20/10	F	V	Sample problems	Covered
43	21/10	A	V	Sample problems	Covered
44	26/10	E	V	Sample problems	Covered
45	31/10	F	V	Revision	Covered



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## LESSON PLAN AND RECORD OF CLASSES ENGAGED

Class : I-Maths Academic Year : 2016 - 2017 Semester : I

Course : B-SC

Subject Code : 15UMAC11

Title of the Paper : Calculus

Name of the Teacher : M. Himaya Saleela Begum

Theory / Practical

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1	16/06/2016 A	<u>I</u>	polar Curve definition, examples, problems	Covered
2	17/06/16 B		problems	Covered
3	20/06/16 C		problem	Covered
4	21/06/16 D		problems.	Covered
5	23/06/16 F		problems in polar curves.	Covered
6	24/06/16 A		problems.	Covered
7	25/06/16 B		ref. polar equations.	9
8	27/06/16 C		problems in p-r equation	Covered
9	28/06/16 D		Asymptotes def. examples	Covered
10	30/06/16 F		Asymptote Type I.	Covered
11	01/07/16 A		problems in Type II	Covered
12	02/07/16 B		problems in Type III	Covered
13	11/07/16 C		problems	Covered
14	12/07/16 D		problems	Covered
15	14/07/16 F		Unit Test I	Covered

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Text books :

1. Calculus by Arumugam and Issac
- 2.

Reference books :

1. Calculus by Joseph A. Mangalassery
2. Calculus volume I and II by Manikavas Pillai

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment	3	Application Problem	Evaluation	Double and Triple	15/07/16	13/07/16
Internal Test	3	I <sup>st</sup> Test Portions 1 1/2	II <sup>nd</sup> Test Portions 1 1/2	III <sup>rd</sup> Test Portions 1 1/2		

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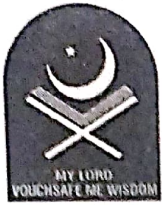
## LESSON PLAN AND RECORD OF CLASSES ENGAGED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
16	15/07/16	A	II Curvature definition, derivations	Covered
17	16/07/16	B	problems in radius of curvature	Covered
18	18/07/16	C	problems in cartesian form in cartesian	Covered
19	19/07/16	D	problems in implicit form	Covered
20	21/07/16	F	problems in parametric form.	Covered
21	22/07/16	A	problems in polar form.	Covered
22	25/07/16	B	problems in evolutes. (C.T)	Covered
23	26/07/16	C	Evolute problems.	
24	27/07/16	D	problems in exercise	Covered
25	27/07/16	F	problems in circle of curvature	Covered
26	30/07/16	A	problems in circle of Curvature	Covered
27	01/08/16	B	problems in centre of Curvature	Covered
28	02/08/16	C	problems in centre of Curvature	Covered
29	03/08/16	D	problems in exercise.	Covered
30	05/08/16	F	Unit Test (C.T)	Covered
31	08/08/16	A	III evaluation of definite integrals	Covered
32	09/08/16	B	problems	Covered
33	10/08/16	C	problems	Covered
34	11/08/16	D	problems	Covered
35	13/08/16	F	problems	Covered
36	17/08/16	A	problems	Covered
37	18/08/16	B	Integration by parts.	Covered
38	19/08/16	C	problems in integration by parts	Covered
39	20/08/16	D	problems	Covered
40	23/08/16	F	problems	Covered

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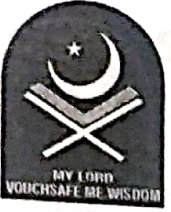
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## LESSON PLAN AND RECORD OF CLASSES ENGAGED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
41	24/08/16 A		Jacobian def & examples	Covered
42	26/08/16 B		problems in Jacobians	Covered
43	27/08/16 C		problems	Covered
44	29/08/16 D		Problem	Covered
45	31/08/16 F		Unit Test	Covered
46	01/09/16 A	IV.	Double integral definition, example	Covered
47	02/09/16 B		problems in double integral	Covered
48	06/09/16 C		problems in double integral	Covered
49	07/09/16 D		Triple integral def, examples	Covered
50	09/09/16 F		problems in Triple integral	Covered
51	15/09/16 A		Evaluation of double integrals	Covered
52	16/09/16 B		Problems	Covered
53	17/09/16 C		problems	Covered
54	19/09/16 D		problems	Covered
55	21/09/16 F		problems in Triple integral	Covered
56	22/09/16 A		problems	Covered
57	23/09/16 B		Problems	Covered
58	26/09/16 C		Change the order of integration	Covered
59	27/09/16 D		Problems	Covered
60	29/09/16 F		Unit Test	Covered
61	30/09/16 A	V.	Definition of Beta and Gamma	Covered
62	03/10/16 B		Properties of Beta and Gamma	Covered
63	04/10/16 C		problems in Beta and Gamma	Covered
64	05/10/16 D		problems in Gamma	Covered
65	07/10/16 F		problems	Covered

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## LESSON PLAN AND RECORD OF CLASSES ENGAGED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
66	13/10/2016 A		Fourier series problem $(-\pi, \pi)$	Covered
67	14/10/2016 B		problems in $(-\pi, \pi)$	Covered
68	17/10/2016 C		problems in $(0, 2\pi)$	Covered
69	18/10/2016 D		problems in $(0, 2\pi)$	Covered
70	20/10/2016 F		problems in $(-\pi, \pi)$	Covered
71	21/10/2016 A		problems in $(-\pi, \pi)$	Covered
72	22/10/2016 B		Half range cosine series	Covered
73	24/10/2016 C		Half range sine series	Covered
74	25/10/2016 D		Half range sine series	Covered
75	31/10/2016 F		Unit Test	Covered

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## LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course : B.Sc Maths

Class : 1 year

Academic Year : 2016 - 2017 Semester : I

Title of the Paper : Statistics

Subject Code : 15U ST11

Theory / Practical

Name of the Teacher : S. Syed Ali Fathima.

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1	16/6 A	I	Intro - Measure of central Tendency	16/6
2	20/6 C		Defn - qs	20/6
3	21/6 D		Thm 11, 1-2	21/6
4	22/6 E		Thms	22/6
5	22/6 F		A. N, Pble	23/6
6	23/6 A		Phms	23/6
7	24/6 B		Median - Pbs.	24/6
8	27/6 C		Derivation	27/6
9	28/6 D		Phms	28/6
10	29/6 E		Quartiles, Percentiles - Deciles	29/6
11	29/6 F		Phms	29/6
12	30/6 A		Phms	30/6
13	01/7 B		Phms	01/7
14	11/7 C		Phms	11/7
15	12/7 D		S.D, M.D, Range	12/7

Text books :

1. STATISTICS by Dr. S. Arumugam 2<sup>nd</sup> Issac.
- 2.

Reference books :

1. Probability and Statistics by Joseph A. Margulies
- 2.

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment	III	Nature of central Tendency	Correlation Regression	Sampling th	14/7 10/8 24/10	14/7 10/8 24/10
Internal Test	3	I <sup>st</sup> Test Portions	II <sup>nd</sup> Test Portions	III <sup>rd</sup> Test Portions	28/7 08/9 15/10	28/7
		I <sup>st</sup> Unit	1.5 - 3	4 & 5		

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## LESSON PLAN AND RECORD OF CLASSES ENGAGED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
16	13/7 E		Thms. & Properties	13/7
17	13/7 E		Pbs	13/7
18	14/7 F		Pbs	14/7
19	15/7 A	II	Intro - Correlation	15/7
20	18/7 C		Properties	18/7
21	19/7 D		Students Council Inauguration	19/7
22	20/7 E		Thms.	20/7
23	20/7 E		Pbs.	20/7
24	21/7 F		Rank correlation	21/7
25	22/7 A		Pbms	22/7
26	26/7 C		Pbms.	26/7
27	27/7 D		Regression	27/7
28	28/7 E		CIA - I	28/7
29	28/7 E		Derivation	28/7
30	29/7 F		Properties of bay, type	29/7
31	30/7 A		Parabls	30/7
32	02/08 C		Pbms.	RH 03/8
33	03/08 D		Pbms.	04/8
34	04/08 E		Pbms.	04/8
35	04/08 E		Pbms.	05/8
36	05/08 F		Discuss Exercise Pbs.	08/8
37	08/08 A	III	Intro - Attributes.	10/8
38	10/08 C		Basic terms & Notations	11/8
39	11/08 D		Properties	12/8
40	12/08 E		Properties	12/8

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Sl.No.	Date & Order	Unit	Topics planned	Covered on
41	12/8 E		Pbms	13/8
42	13/8 F		Pbms	17/8
43	17/8 A		Pbms.	19/8
44	18/8 C		Independancy & consistency	20/8
45	20/8 D		Pbms	22/8
46	22/8 E		Pbms	23/8
47	22/8 E		Pble.	24/8
48	23/8 F		yule's co-eff & Q	27/8
49	24/8 A		Pbms	28/8
50	24/8 C		Pbms	30/8
51	29/8 D		Pbms.	30/8
52	30/8 E		Pbms.	31/8
53	30/8 E		Pbms.	0/9
54	31/8 F		Discuss exercise.	<del>31/8</del>
55	01/9 A	W	Intro - Large Samples.	06/9
56	06/9 C		Thms	07/9
57	07/9 D		Thms	08/9
58	08/9 E		CIA-II.	-
59	08/9 E		Sampling theory	9/9
60	09/9 F		Properties - Proportions	9/9
61	15/9/A		UGCS - Maths	-
62	17/9 B		Pbs.	19/9
63	19/9 D		Pbs.	20/9
64	20/9 E		Pbs.	20/9
65	20/9 E		Pbs.	20/9

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## LESSON PLAN AND RECORD OF CLASSES ENGAGED

Sl.No	Date & Order	Unit	Topics planned	Covered on
66	21/7 F		Plans	Covered
67	22/7 A		Pblms	Covered
68	26/7 C		Pblms	Covered
69	27/7 D		Pblms	Covered
70	28/7 E		Discussion	Discussed
71	28/7 E		Discussion	Discussed
72	29/7 F		Revision	Covered
73	30/7 A	V	Intro - Small Samples	Covered
74	04/10 C		t-test	Covered
75	05/10 D		Pbs.	Covered
76	06/10 E		Pbs.	Covered
77	06/10 E		Pbs.	Covered
78	07/10 F		Pbs.	Covered
79	18/10 A		Pbs.	Covered
80	17/10 C		F. test - Defn	Covered
81	18/10 D		Pbs	Covered
82	19/10 E		CIA - III	
83	19/10 E		Pbs	Covered
84	20/10 F		Pbs	Covered
85	21/10 A		Pbs	Covered
86	24/10 C		Pbs	Covered
87	25/10 D		Revision on unit 3	Revised
88	26/10 E		Revision on unit 4-11	Revised
89	26/10 E		Revision on unit 14-16	Revised
90	31/10 F		Discussion	Discussed

Teacher's Signature

HOD Signature

FM3/Rev01