

TIKA RAM GIRLS COLLEGE SONIPAT

Lesson Plan Format

Name of Assistant/Associate Professor

Class and Section

Subject

Week 1	Description
15-07-25	
16-07-25	
17-07-25	
18-07-25	
19-07-25	
Week 2	
21-07-25	
22-07-25	
23-07-25	
24-07-25	
25-07-25	
26-07-25	
Week 3	
28-07-25	
29-07-25	
30-07-25	
01-08-25	
02-08-25	
Week 4	
04-08-25	
05-08-25	
06-08-25	
07-08-25	
08-08-25	
Week 5	
11-08-25	
12-08-25	
13-08-25	

14-08-25	
Week 6	
18-08-25	
19-08-25	
20-08-25	
21-08-25	Function of a complex variable
22-08-25	
23-08-25	
Week 7	
25-08-25	" " Continuity " " Differentiability Analytic Functions and their properties " Cauchy - Riemann equation in cartesian and " " " " " "
26-08-25	
27-08-25	
28-08-25	
29-08-25	
30-08-25	
Week 8	
01-09-25	" " Power Series " Radius of convergence Diff. of sum function of Power Series.
02-09-25	
03-09-25	
04-09-25	
06-09-25	
Week 9	
08-09-25	Branches of many valued function Special reference to $\arg z$, $\log z$ and z^n " " " " " "
09-09-25	
10-09-25	
11-09-25	
12-09-25	
13-09-25	
Week 10	
15-09-25	Path in a region, contour " " complex integration " " Cauchy theorem " " " " " "
16-09-25	
17-09-25	
18-09-25	
19-09-25	
20-09-25	

Week 11	
24-09-25	Extension of Cauchy integral formula Poisson integral formula Higher order derivatives
25-09-25	
26-09-25	
27-09-25	
Week 12	
29-09-25	Cauchy inequality Liouville theorem Taylor theorem
30-09-25	
01-10-25	
03-10-25	
04-10-25	
Week 13	
06-10-25	Zero of an analytic function " " Laurent series " " isolated singularities
08-10-25	
09-10-25	
10-10-25	
11-10-25	
Week 14	
13-10-25	Maximum modulus principle.
Week 15	
23-10-25	
24-10-25	
25-10-25	
Week 16	
27-10-25	Schwarz lemma, Meromorphic functions Argument principle Rouché theorem Fundamental theorem.
28-10-25	
29-10-25	
30-10-25	
31-10-25	
01-11-25	
Week 17	
03-11-25	Calculus of residues, Cauchy residue theorem
04-11-25	

06-11-25	
07-11-25	
08-11-25	
Week 18	
10-11-25	Evaluation of integrals of the types "conformal mappings."
11-11-25	
12-11-25	
13-11-25	
14-11-25	
15-11-25	
Week 19	
17-11-25	Montel theorem Riemann mapping theorem, "
18-11-25	

TIKA RAM GIRLS COLLEGE SONIPAT

Lesson Plan Format

Name of Assistant Associate Professor

Mrs. PooJA

Class and Section

M.Sc Ist yr. (Mathematics)

Subject

Mathematical Analysis.

Week 1	Description
15-07-25	
16-07-25	
17-07-25	
18-07-25	
19-07-25	
Week 2	
21-07-25	
22-07-25	
23-07-25	
24-07-25	
25-07-25	
26-07-25	
Week 3	
28-07-25	
29-07-25	
30-07-25	
01-08-25	
02-08-25	
Week 4	
04-08-25	
05-08-25	
06-08-25	
07-08-25	
08-08-25	
Week 5	
11-08-25	
12-08-25	
13-08-25	

14-08-25	
Week 6	
18-08-25	
19-08-25	
20-08-25	
21-08-25	
22-08-25	
23-08-25	
Week 7	
25-08-25	Riemann-Stieltjes integral Existence and properties Integration and differentiation
26-08-25	
27-08-25	
28-08-25	
29-08-25	
30-08-25	
Week 8	
01-09-25	Fundamental theorem of calculus Integration of vector function.
02-09-25	
03-09-25	
04-09-25	
06-09-25	
Week 9	
08-09-25	Sequence and Series of function. Point wise and Uniform convergence Cauchy criterion for s
09-09-25	
10-09-25	
11-09-25	
12-09-25	
13-09-25	
Week 10	
15-09-25	Uniform convergence and differentiation Weierstrass approximation theorem
16-09-25	
17-09-25	
18-09-25	
19-09-25	
20-09-25	

Week 11	
24-09-25	Power Series
25-09-25	Uniform convergence and Uniqueness th ^m
26-09-25	Abel theorem
27-09-25	
Week 12	
29-09-25	Tauber Theorem
30-09-25	Functions of several variables
01-10-25	Linear Transformations
03-10-25	
04-10-25	
Week 13	
06-10-25	Euclidean space $\mathbb{R}^n$
08-10-25	Derivatives in an open set of $\mathbb{R}^n$
09-10-25	
10-10-25	
11-10-25	
Week 14	
13-10-25	chain Rule, Partial derivatives
Week 15	
23-10-25	
24-10-25	
25-10-25	
Week 16	
27-10-25	Mapping young and Schwarz th ^m
28-10-25	Test
29-10-25	Taylor theorem
30-10-25	
31-10-25	
01-11-25	
Week 17	
03-11-25	Higher order differentials
04-11-25	Explicit and implicit functions.

06-11-25	
07-11-25	
08-11-25	
Week 18	
10-11-25	Implicit function th ^m Inverse function change of variables, extreme value.
11-11-25	
12-11-25	
13-11-25	
14-11-25	
15-11-25	
Week 19	
17-11-25	Lagrange multipliers method Jacobian and its properties.
18-11-25	

TIKA RAM GIRLS COLLEGE SONIPAT

Lesson Plan Format

Name of Assistant/Associate Professor

Dr. SONIA

Class and Section

Misc. Previous maths

Subject

Discrete Mathematics

Week 1	Description
15-07-25	
16-07-25	
17-07-25	
18-07-25	
19-07-25	
Week 2	
21-07-25	
22-07-25	
23-07-25	
24-07-25	
25-07-25	
26-07-25	
Week 3	
28-07-25	
29-07-25	
30-07-25	
01-08-25	
02-08-25	
Week 4	
04-08-25	
05-08-25	
06-08-25	
07-08-25	
08-08-25	
Week 5	
11-08-25	
12-08-25	
13-08-25	

14-08-25	
Week 6	
18-08-25	
19-08-25	
20-08-25	Introduction of Recurrence
21-08-25	"
22-08-25	Generating functions
23-08-25	"
Week 7	
25-08-25	Some number sequences
26-08-25	"
27-08-25	Linear homogeneous recurrence relations
28-08-25	"
29-08-25	"
30-08-25	Non-homogeneous recurrence relations
Week 8	
01-09-25	Generating functions
02-09-25	"
03-09-25	"
04-09-25	Recurrence and generating functions
06-09-25	"
Week 9	
08-09-25	Exponential generating functions.
09-09-25	"
10-09-25	"
11-09-25	Revision
12-09-25	problems
13-09-25	"
Week 10	
15-09-25	Statement & Symbolic representations & Tautology
16-09-25	"
17-09-25	"
18-09-25	
19-09-25	
20-09-25	

Week 11	
24-09-25	
25-09-25	Quantifiers
26-09-25	Predicates and Validity
27-09-25	"
Week 12	
29-09-25	Lattice as P.O. Set
30-09-25	Properties of Lattice
01-10-25	Lattices as Algebraic systems, sub lattice
03-10-25	Direct products and Homomorphism
04-10-25	"
Week 13	
06-10-25	Some special lattice
08-10-25	"
09-10-25	"
10-10-25	
11-10-25	
Week 14	
13-10-25	Complete, Complicated lattice
Week 15	
23-10-25	Boolean algebra as Lattice
24-10-25	Various Boolean Identities
25-10-25	"
Week 16	
27-10-25	The switching algebra and its examples
28-10-25	Sub algebra, Direct product and Homomorphism
29-10-25	Joint irreducible elements
30-10-25	"
31-10-25	Atoms and min terms
01-11-25	"
Week 17	
03-11-25	Sum of products Canonical Form
04-11-25	"

06-11-25	Minimization of Boolean functions " K-map.
07-11-25	
08-11-25	
Week 18	
10-11-25	Finite state automata.
11-11-25	Egs of F.S.A
12-11-25	NDFSA
13-11-25	Moore & Mealy machine
14-11-25	"
15-11-25	Grammars and language
Week 19	
17-11-25	Types of Grammars
18-11-25	Revision

TIKA RAM GIRLS COLLEGE SONIPAT

Lesson Plan Format

Name of Assistant/Associate Professor

Dr. SONIA

Class and Section

M.Sc (P) maths

Subject

Abstract Algebra

Week 1	Description
15-07-25	
16-07-25	
17-07-25	
18-07-25	
19-07-25	
Week 2	
21-07-25	
22-07-25	
23-07-25	
24-07-25	
25-07-25	
26-07-25	
Week 3	
28-07-25	
29-07-25	
30-07-25	
01-08-25	
02-08-25	
Week 4	
04-08-25	
05-08-25	
06-08-25	
07-08-25	
08-08-25	
Week 5	
11-08-25	
12-08-25	
13-08-25	

14-08-25	
Week 6	
18-08-25	
19-08-25	
20-08-25	Introduction of Modules.
21-08-25	cyclic modules
22-08-25	"
23-08-25	Simple & semi-simple modules
Week 7	
25-08-25	Egs of simple modules
26-08-25	"
27-08-25	"
28-08-25	Theorems based on module,
29-08-25	"
30-08-25	"
Week 8	
01-09-25	Free modules & Theorem based on Free module,
02-09-25	"
03-09-25	Modules over P.I.D
04-09-25	
06-09-25	
Week 9	
08-09-25	Applications of finitely generated abelian groups
09-09-25	"
10-09-25	"
11-09-25	
12-09-25	
13-09-25	
Week 10	
15-09-25	Noetherian modules
16-09-25	Theorem based on noetherian modules
17-09-25	"
18-09-25	
19-09-25	
20-09-25	

Week 11	
24-09-25	Artinian modules and Thm. based on it.
25-09-25	"
26-09-25	Hilbert Basis theorem.
27-09-25	"
Week 12	
29-09-25	Nil & Nilpotent ideals.
30-09-25	"
01-10-25	Wedderburn - Artin Theorem.
03-10-25	
04-10-25	
Week 13	
06-10-25	Normal & Subnormal series
08-10-25	"
09-10-25	Solvable series
10-10-25	Derived series
11-10-25	"
Week 14	
13-10-25	Theorem on Derived series.
Week 15	
23-10-25	Solvability of S_n - The symmetric group of n
24-10-25	"
25-10-25	"
Week 16	
27-10-25	Central Series
28-10-25	Nilpotent groups & their properties
29-10-25	"
30-10-25	"
31-10-25	Equivalent condition for a finite group to
01-11-25	"
Week 17	
03-11-25	Sylow theorems - p groups.
04-11-25	"

06-11-25	Applications of sylow theorem
07-11-25	Description of group of order p^2 and pq
08-11-25	"
Week 18	
10-11-25	Survey of groups under 15 order
11-11-25	"
12-11-25	"
13-11-25	"
14-11-25	Test
15-11-25	Revision
Week 19	
17-11-25	Problems based on sylow groups & theorems
18-11-25	"

TIKA RAM GIRLS COLLEGE SONIPAT

Lesson Plan Format

Name of Assistant Associate Professor

Mimansa

Class and Section

M.Sc Maths Ist Yr.

Subject

Mathematical Statistics

Week 1	Description
15-07-25	
16-07-25	
17-07-25	
18-07-25	
19-07-25	
Week 2	
21-07-25	
22-07-25	
23-07-25	
24-07-25	
25-07-25	
26-07-25	
Week 3	
28-07-25	
29-07-25	
30-07-25	
01-08-25	
02-08-25	
Week 4	
04-08-25	
05-08-25	
06-08-25	
07-08-25	
08-08-25	
Week 5	
11-08-25	
12-08-25	
13-08-25	

14-08-25	
Week 6	
18-08-25	
19-08-25	
20-08-25	
21-08-25	Probability Def.
22-08-25	Addition Theorem
23-08-25	Boole Inequality
Week 7	
25-08-25	
26-08-25	
27-08-25	
28-08-25	Conditional Prob.
29-08-25	Multiplication theorem
30-08-25	Independent events
Week 8	
01-09-25	
02-09-25	
03-09-25	
04-09-25	Mutual & pairwise independence of
06-09-25	Bayes theorem
Week 9	
08-09-25	
09-09-25	
10-09-25	
11-09-25	Random Variable Prob. f_n^n
12-09-25	Discrete & Cts Random Variable
13-09-25	Probability mass & density f_n^n
Week 10	
15-09-25	
16-09-25	
17-09-25	
18-09-25	Distribution f_n^n
19-09-25	Bivariate Random Variable
20-09-25	Joint, Marginal Cond. distribut

Week 11	
24-09-25	
25-09-25	Uniform Disto.
26-09-25	Bernoulli dist.
27-09-25	Binomial dist.
Week 12	
29-09-25	
30-09-25	
01-10-25	
03-10-25	Poisson disto.
04-10-25	Geometric dist.
Week 13	
06-10-25	
08-10-25	
09-10-25	Uniform disto.
10-10-25	Exponential dist.
11-10-25	Normal disto.
Week 14	
13-10-25	
Week 15	
23-10-25	Testing of Hypothesis
24-10-25	Sampling disto.
25-10-25	Standard Error
Week 16	
27-10-25	
28-10-25	
29-10-25	
30-10-25	Null & Alternative hypothesis
31-10-25	Simple & composite hyp.
01-11-25	Critical region
Week 17	
03-11-25	
04-11-25	

06-11-25	level of Significance
07-11-25	1 tailed & 2 tailed tests
08-11-25	large sample test for single mean
Week 18	
10-11-25	
11-11-25	
12-11-25	
13-11-25	Diff. b/w 2 mean & 2 proportions
14-11-25	Doubt class
15-11-25	Revision class
Week 19	
17-11-25	
18-11-25	