Name of Assistant Professor : Shweta Dhawan

Class and Section : B.A/B.Sc (I) (Sem-I)

Subject : Mathematics

Paper : BM-111

From July-November 2018

Week 1	
Week 1, Day 1	Inaugural Hawan
16/07/2018	
Week 1, Day 2	Definition of Different Types of matrices.
17/07/2018	
Week 1, Day 3	Transpose & Transpose conjugate of matrix.
18/07/2018	
Week 1, Day 4	Adjoint of a square matrix.
19/07/2018	
Week 1, Day 5	Inverse of a square matrix.
20/07/2018	
Week 1, Day 6	Singular and Non-Singular matrices.
21/07/2018	
Week 2	
Week 2, Day 1	Solution of System of linear equations.
23/07/2018	
Week 2, Day 2	Define symmetric & skew-symmetric matrices.
24/07/2018	
Week 2, Day 3	Define Hermitian & skew- Hermitian matrices.
25/07/2018	
Week 2, Day 4	Properties and examples of matrices.
26/07/2018	
Week 2, Day 5	Orthogonal matrix.
27/07/2018	
Week 2, Day 6	Unitary matrix.
28/07/2018	
Week 3	
Week 3, Day 1	Properties of orthogonal & unitary matrices.
30/07/2018	
Week 3, Day 2	Shaheed Udham Singh martyrs' Day
31/07/2018	
Week 3, Day 3	Define Rank of a matrix.
01/08/2018	
Week 3, Day 4	Row Equivalent matrix.
02/08/2018	
Week 3, Day 5	Column Equivalent matrix.
03/08/2018	
Week 3, Day 6	Row-Echelon matrix.
04/08/2018	

Week 4	
Week 1, Day 1	Column- Echelon matrix.
06/08/2018	
Week 4, Day 2	Row rank and column rank of matrix.
07/08/2018	
Week 4, Day 3	Reduction of matrix to Triangular form.
08/08/2018	
Week 4, Day 4	Define Normal form of a matrix.
09/08/2018	
Week 4, Day 5	Examples of normal form.
10/08/2018	
Week 4, Day 6	Non-singular matrices in normal form.
11/08/2018	
Week 5	
Week 5, Day 1	Teej
13/08/2018	
Week 5, Day 2	Linear Dependence & Independence of column matrices.
14/08/2018	
Week 5, Day 3	Independence Day
15/08/2018	
Week 5, Day 4	Linear Dependence & Independence of column matrices.
16/08/2018	
Week 5, Day 5	Theorems of linear Dependence & Independence.
17/08/2018	
Week 5, Day 6	Define characteristic matrix and equation.
18/08/2018	
Week 6	
Week 6, Day 1	Define characteristic roots.
20/08/2018	
Week 6, Day 2	Spectrum of a matrix
21/08/2018	
Week 6, Day 3	Id
22/08/2018	
Week 6, Day 4	Examples related to characteristic roots.
23/08/2018	
Week 6, Day 5	Define characteristic vector.
24/08/2018	
Week 6, Day 6	Examples related to characteristic vectors.
25/08/2018	
Week 7	
Week 7, Day 1	Define Scalar Polynominal.
27/08/2018	
Week 7, Day 2	Define matrix polynominal.
28/08/2018	
Week 7, Day 3	Cayley-Hamilton throrem.
29/08/2018	

Week 7, Day 4	Discuss examples of Cayley-Hamilton theorem.
30/08/2018	
Week 7, Day 5	Some theorems on characteristic roots.
31/08/2018	
Week 7, Day 6	Some theorems on characteristic vectors.
01/09/2018	
Week 8	
Week 8, Day 1	Janamashtmi
03/09/2018	
Week 8, Day 2	Miminal & Monic Polynomials.
04/09/2018	
Week 8, Day 3	Talent Show (Tentative)
05/09/2018	
I	Derogatory & Non-Derogatory Matrices.
06/09/2018	
I - I	System of Non-Homogeneous Linear equations.
07/09/2018	
I - I	System of Homogeneous Linear equations
08/09/2018	
Week 9	
, ·	Method to write matrix of Bilinear form.
10/09/2018	
	Method to write matrix of Quadratic form.
11/09/2018	
	Diagonalization of a quadratic form.
12/09/2018	
I - I	Discuss index, signature & Rank of quadratic form.
13/09/2018	Desixing 1.5inite 0 Comi 1.5inite 5
Week 9, Day 5	Positive definite & Semi-definite form.
	Nagativa definita & Sami definite form
Week 9, Day 6 15/09/2018	Negative definite & Semi- definite form.
Week 10	
	Sylvester's Criterion for positive definiteness.
17/09/2018	5,1, ester a criterion for positive definiteness.
	Remainder & factor theorem for roots.
18/09/2018	
	Synthetic Division with examples.
19/09/2018	J
	Fundamental theorem of Algebra.
20/09/2018	
Week 10, Day 5	Rational & Irrational Roots.
21/09/2018	
Week 10, Day 6	Common Roots of two equations.
22/09/2018	•

Week 11	
Week 11, Day 1	Equal roots of an equation.
24/09/2018	
Week 11, Day 2	Multiple roots of an equation.
25/09/2018	
Week 11, Day 3	Roots with signs changed
26/09/2018	
Week 11, Day 4	Roots multiplied by a given number.
27/09/2018	
Week 11, Day 5	Sessionals (Tentative)
28/09/2018	
Week 11, Day 6	Sessionals (Tentative)
29/09/2018	
Week 12	
Week 12, Day 1	Sessionals (Tentative)
01/10/2018 Week 12 Day 2	Candhi Iananti
Week 12, Day 2 02/10/2018	Gandhi Jayanti
Week 12, Day 3	Sessionals (Tentative)
03/10/2018	Sessionais (Tenanive)
Week 12, Day 4	Sessionals (Tentative)
04/10/2018	Sessionais (Tenative)
Week 12, Day 5	Reciprocal roots and reciprocal equation.
05/10/2018	recipioedi roots dia recipioedi equation.
Week 12, Day 6	Roots diminished by a given number.
06/10/2018	, ,
Week 13	
Week 13, Day 1	Transformation of the Cubic equation.
08/10/2018	•
Week 13, Day 2	Transformation of the biquadratic equation.
09/10/2018	
Week 13, Day 3	Aggarsen Jayanti
10/10/2018	
Week 13, Day 4	Equations of squared differences of a cubic.
11/10/2018	
Week 13, Day 5	Discuss, equations of diminishing by a root.
12/10/2018	
Week 13, Day 6	Cardan's Method.
13/10/2018	
Week 14	Discuss notions of mosts of subic acception
Week 14, Day 1 15/10/2018	Discuss nature of roots of cubic equation.
	Irreducible cases of Cardan's method.
Week 14, Day 2 16/10/2018	incuacione cases of Cardan s method.
Week 14, Day 3	Examples of cardan's method.
17/10/2018	Examples of cardair's inculou.
17/10/2010	

Week 14, Day 4	Dussehra
18/10/2018	Dussemu
Week 14, Day 5	Descarte's solution of the Biquadratic equations.
19/10/2018	Descarte 3 solution of the Diquadratic equations.
Week 14, Day 6	Discuss Discarte's examples.
20/10/2018	Discuss Discurce s examples.
Week 15	
Week 15, Day 1	Define Ferrari's method.
22/10/2018	Boiline I citati s modica.
Week 15, Day 2	Working rule for Ferrai's method.
23/10/2018	· · · · · · · · · · · · · · · · · · ·
Week 15, Day 3	Valmiki Jayanti
24/10/2018	·
Week 15, Day 4	Examples of Ferrari's method.
25/10/2018	
Week 15, Day 5	Continuation & permanence of signs.
26/10/2018	
Week 15, Day 6	KarvaChauth
27/10/2018	
Week 16	
Week 16, Day 1	Define complete equation.
29/10/2018	
Week 16, Day 2	Descarte's Rule of sings.
30/10/2018	
Week 16, Day 3	Find real roots of an equation.
31/10/2018	
Week 16, Day 4	Haryana Day
01/11/2018	
Week 16, Day 5	Find positive and negative roots.
02/11/2018	
Week 16, Day 6	Find complex roots of a equation.
03/11/2018	
Week 17	Diwali Break
04-11/11/2018	
Week 18	Revision/Preparatory Holidays
12-15/11/2018	

Name of Assistant Professor: Shweta Dhawan

Class and Section : B.A/B.Sc (Third Semester)

Subject : Mathematics Paper : BM-232

From July-November 2018

Week 1	
Week 1, Day 1	Inaugural Hawan
16/07/2018	
Week 1, Day 2	Introduction to the partial differential equation, order and degree of a P.D.E,
17/07/2018	linear and non linear P.D.E
Week 1, Day 3	Formation of P.D.E by the elimination of arbitrary constants and related
18/07/2018	examples
Week 1, Day 4	Formation of P.D.E by the elimination of arbitrary functions and related
19/07/2018	examples
Week 1, Day 5	Discussion on students problems regarding previous lectures
20/07/2018	Classification of the solution of P.D.E
Week 1, Day 6 21/07/2018	Classification of the solution of P.D.E
Week 2	
Week 2, Day 1	Lagrange's linear equations and working rule to solve these first order linear
23/07/2018	P.D.E by by Lagrange's method
Week 2, Day 2 24/07/2018	Lagrange's method and related examples
	Lagrange's method and related eventiles, continued
Week 2, Day 3 25/07/2018	Lagrange's method and related examplescontinued
Week 2, Day 4	Lagrange's method and related examplescontinued
26/07/2018	
Week 2, Day 5	Charpits general method to find solution of first order (linear and non linear
27/07/2018) P.D.E and related examples
Week 2, Day 6	Examples based on Charpits general method
28/07/2018	
Week 3	
Week 3, Day 1	Examples based on Charpits general method
30/07/2018	CL -L I II II C' L M(L II
Week 3, Day 2 31/07/2018	Shaheed Udham Singh Martyrs' day
Week 3, Day 3	Some standard forms of first order (linear and non linear) P.D.E and their
01/08/2018	solution by Charpits general method
Week 3, Day 4	Some standard forms of first order (linear and non linear) P.D.E and their
02/08/2018	solution by Charpits general methodcontinued
Week 3, Day 5	Some standard forms of first order (linear and non linear) P.D.E and their
03/08/2018	solution by Charpits general methodcontinued
Week 3, Day 6	Jacobi method to find solution of first order (linear and non linear) P.D.E
04/08/2018	and related examples
Week 4	
Week 4, Day 1	Examples based on Jacobi method
06/08/2018	
Week 4, Day 2	Examples based on Jacobi method
07/08/2018	
Week 4, Day 3	Discussion on students problems regarding previous lectures
08/08/2018	
Week 4, Day 4	Class Test

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09/08/2018	
Week 4, Day 5	Solution of linear homogeneous or non homogeneous P.D.E of order n with
10/08/2018	constant coefficients and related examples
Week 4, Day 6	Solution of linear homogeneous or non homogeneous P.D.E of order n with
11/08/2018	constant coefficients and related examples
Week 5	
Week 5, Day 1	Teej
13/08/2018	· ·
Week 5, Day 2	Solution of linear homogeneous or non homogeneous P.D.E of order n with
14/08/2018	constant coefficients and related examples
Week 5, Day 3	Independence Day
15/08/2018	independence 2 dy
Week 5, Day 4	Solution of linear homogeneous or non homogeneous P.D.E of order n with
16/08/2018	constant coefficients and related examples
Week 5, Day 5	Solution of linear homogeneous or non homogeneous P.D.E of order n with
17/08/2018	variable coefficients and related examples
Week 5, Day 6	Solution of linear homogeneous or non homogeneous P.D.E of order n with
18/08/2018	variable coefficients and related examples
Week 6	
Week 6, Day 1	Students problems on the above topics
20/08/2018	
Week 6, Day 2	Students problems on the above topics
21/08/2018	
Week 6, Day 3	Id
22/08/2018	
Week 6, Day 4	Group Discussion on solution of linear homogeneous or non homogeneous
23/08/2018	P.D.E of order n
Week 6, Day 5	Class test
24/08/2018	
Week 6, Day 6	Classification of second order linear P.D.E and related examples
25/08/2018	r
Week 7	
Week 7, Day 1	Reduction of second order linear P.D.E to canonical forms
27/08/2018	
Week 7, Day 2	Reduction of second order linear P.D.E to canonical formscontinued
28/08/2018	
Week 7, Day 3	Reduction of second order linear P.D.E to canonical forms continued
29/08/2018	
	Reduction of second order linear P.D.E to canonical forms continued Reduction of second order linear P.D.E to canonical forms continued
29/08/2018	
29/08/2018 Week 7, Day 4	
29/08/2018 Week 7, Day 4 30/08/2018	Reduction of second order linear P.D.E to canonical forms continued
29/08/2018 Week 7, Day 4 30/08/2018 Week 7, Day 5 31/08/2018	Reduction of second order linear P.D.E to canonical forms continued Students problems on the above topics
29/08/2018 Week 7, Day 4 30/08/2018 Week 7, Day 5	Reduction of second order linear P.D.E to canonical forms continued
29/08/2018 Week 7, Day 4 30/08/2018 Week 7, Day 5 31/08/2018 Week 7, Day 6 01/09/2018	Reduction of second order linear P.D.E to canonical forms continued Students problems on the above topics
29/08/2018 Week 7, Day 4 30/08/2018 Week 7, Day 5 31/08/2018 Week 7, Day 6 01/09/2018 Week 8	Reduction of second order linear P.D.E to canonical forms continued Students problems on the above topics Students problems on the above topics
29/08/2018 Week 7, Day 4 30/08/2018 Week 7, Day 5 31/08/2018 Week 7, Day 6 01/09/2018 Week 8 Week 8, Day 1	Reduction of second order linear P.D.E to canonical forms continued Students problems on the above topics
29/08/2018 Week 7, Day 4 30/08/2018 Week 7, Day 5 31/08/2018 Week 7, Day 6 01/09/2018 Week 8 Week 8, Day 1 03/09/2018	Reduction of second order linear P.D.E to canonical forms continued Students problems on the above topics Students problems on the above topics Janamashtmi
29/08/2018 Week 7, Day 4 30/08/2018 Week 7, Day 5 31/08/2018 Week 7, Day 6 01/09/2018 Week 8 Week 8, Day 1 03/09/2018 Week 8, Day 2	Reduction of second order linear P.D.E to canonical forms continued Students problems on the above topics Students problems on the above topics
29/08/2018 Week 7, Day 4 30/08/2018 Week 7, Day 5 31/08/2018 Week 7, Day 6 01/09/2018 Week 8 Week 8, Day 1 03/09/2018 Week 8, Day 2 04/09/2018	Reduction of second order linear P.D.E to canonical forms continued Students problems on the above topics Students problems on the above topics Janamashtmi Monge's method for P.D.E of second order
29/08/2018 Week 7, Day 4 30/08/2018 Week 7, Day 5 31/08/2018 Week 7, Day 6 01/09/2018 Week 8 Week 8, Day 1 03/09/2018 Week 8, Day 2 04/09/2018 Week 8, Day 3	Reduction of second order linear P.D.E to canonical forms continued Students problems on the above topics Students problems on the above topics Janamashtmi
29/08/2018 Week 7, Day 4 30/08/2018 Week 7, Day 5 31/08/2018 Week 7, Day 6 01/09/2018 Week 8 Week 8, Day 1 03/09/2018 Week 8, Day 2 04/09/2018 Week 8, Day 3 05/09/2018	Reduction of second order linear P.D.E to canonical forms continued Students problems on the above topics Students problems on the above topics Janamashtmi Monge's method for P.D.E of second order Talent Show (Tentative)
29/08/2018 Week 7, Day 4 30/08/2018 Week 7, Day 5 31/08/2018 Week 7, Day 6 01/09/2018 Week 8, Day 1 03/09/2018 Week 8, Day 2 04/09/2018 Week 8, Day 3 05/09/2018 Week 8, Day 4	Reduction of second order linear P.D.E to canonical forms continued Students problems on the above topics Students problems on the above topics Janamashtmi Monge's method for P.D.E of second order
29/08/2018 Week 7, Day 4 30/08/2018 Week 7, Day 5 31/08/2018 Week 7, Day 6 01/09/2018 Week 8 Week 8, Day 1 03/09/2018 Week 8, Day 2 04/09/2018 Week 8, Day 3 05/09/2018	Reduction of second order linear P.D.E to canonical forms continued Students problems on the above topics Students problems on the above topics Janamashtmi Monge's method for P.D.E of second order Talent Show (Tentative)

07/09/2018	
Week 8, Day 6	Monge's method for P.D.E of second ordercontinued
08/09/2018	Wonge's method for 1.D.E of second ordercontinued
Week 9	
	Students much lams on the shove tonics
Week 9, Day 1	Students problems on the above topics
10/09/2018	Challente much lance on the above tooling
Week 9, Day 2	Students problems on the above topics
11/09/2018	
Week 9, Day 3	Power point presentation
12/09/2018	
Week 9, Day 4	Characteristics equations and Characteristics curves of second order P.D.E
13/09/2018	
Week 9, Day 5	Characteristics equations and Characteristics curves of second order
14/09/2018	P.D.Econtinued
Week 9, Day 6	Cauchy's problem for the second order P.D.E
15/09/2018	
Week 10	
Week 10, Day 1	Cauchy's problem for the second order P.D.Econtinued
17/09/2018	
Week 10, Day 2	Cauchy's problem for the second order P.D.Econtinued
18/09/2018	
Week 10, Day 3	Three types of linear second order P.D.E
19/09/2018	Wave equation, heat equation, Laplace equation
Week 10, Day 4	Principle of superposition
20/09/2018	
Week 10, Day 5	Solution of one dimensional wave equation by method of separation of
21/09/2018	variables
Week 10, Day 6	Solution of one dimensional wave equation satisfying the given boundary
22/09/2018	and initial conditions and related examples
Week 11	
Week 11, Day 1	Solution of one dimensional wave equation satisfying the given boundary
24/09/2018	and initial conditions and related examplescontinued
Week 11, Day 2	Students problems on the above topics
25/09/2018	
Week 11, Day 3	Students problems on the above topics
26/09/2018	
Week 11, Day 4	Solution of two dimensional wave equation by method of separation of
27/09/2018	variables
Week 11, Day 5	Sessionals (Tentative)
28/09/2018	
Week 11, Day 6	Sessionals (Tentative)
29/09/2018	
Week 12	Sessionals (Tentative)
Week 12, Day 1	Sessionals (Tentative)
01/10/2018	
Week 12, Day 2	Gandhi Jayanti
02/10/2018	
Week 12, Day 3	Sessionals (Tentative)
03/10/2018	
Week 12, Day 4	Sessionals (Tentative)
04/10/2018	
Week 12, Day 5	Solution of two dimensional wave equation satisfying the given boundary
i	1
05/10/2018	and initial conditions and related examples

06/10/2018	and initial conditions and related examplescontinued
Week 13	1
Week 13, Day 1	Students problems on the above topics
08/10/2018	
Week 13, Day 2	Students problems on the above topics
09/10/2018	
Week 13, Day 3	Aggarsen Jayanti
10/10/2018	
Week 13, Day 4	Solution of one dimensional heat equation by method of separation of
11/10/2018	variables
Week 13, Day 5	Solution of one dimensional heat equation satisfying the given boundary and
12/10/2018	initial conditions and related examples
Week 13, Day 6	Solution of one dimensional heat equation satisfying the given boundary and
13/10/2018	initial conditions and related examplescontinued
Week 14	•
Week 14, Day 1	Students problems on the above topics
15/10/2018	
Week 14, Day 2	Solution of two dimensional heat equation by method of separation of
16/10/2018	variables
Week 14, Day 3	Solution of two dimensional heat equation satisfying the given boundary and
17/10/2018	initial conditions and related examples
Week 4, Day 4	Dussehra
18/10/2018	
Week 14, Day 5	Solution of two dimensional heat equation satisfying the given boundary and
19/10/2018	initial conditions and related examplescontinued
Week 14, Day 6	Students problems on the above topics
20/10/2018	
Week 15	
Week 15, Day 1	Solution of two dimensional Laplace equation by method of separation of
22/10/2018 W 1 15 D 2	variables
Week 15, Day 2 23/10/2018	Solution of two dimensional Laplace equation satisfying the given boundary
	and initial conditions and related examples
Week 15, Day 3 24/10/2018	Valmiki Jayanti
Week 15, Day 4	Solution of two dimensional Laplace equation satisfying the given boundary
25/10/2018	and initial conditions and related examplescontinued
Week 15, Day 5	Solution of two dimensional Laplace equation satisfying the given boundary
26/10/2018	and initial conditions and related examplescontinued
Week 15, Day 6	KarvaChauth
27/10/2018	ALW PROTOCOLOR
Week 16	
Week 16, Day 1	Solution of two dimensional Laplace equation satisfying the given boundary
29/10/2018	and initial conditions and related examplescontinued
Week 16, Day 2	Solution of two dimensional Laplace equation satisfying the given boundary
30/10/2018	and initial conditions and related examplescontinued
Week 16, Day 3	Students problems on the above topics
31/10/2018	
Week 16, Day 4	Haryana Day
01/11/2018	
Week 16, Day 5	Students problems on the above topics
02/11/2018	
Week 16, Day 6	Students problems on the above topics
03/11/2018	DI UD I
Week 17	Diwali Break

04-11/11/2018	
Week 18	Revision
Week 18, Day 1	Revision of Syllabus
12/11/2018	
Week 16, Day 2	Revision of Syllabus
13/11/2018	
Week 16, Day 3	Revision of Syllabus
14/11/2018	
Week 16, Day 4	Revision of Syllabus
15/11/2018	

LESSON PLAN

Name of Assistant Professor: Mrs. SHWETA DHAWAN

Class : BSc / B.A. - III

SEMSTER : V

Subject : MATHEMATICS (GROUPS AND RINGS) PAPER

: BM- 352

From July-November 2018

Week 1	GROUPS AND SUBGROUPS:
Week 1, Day 1 16/07/2018	Inaugural Hawan
Week 1, Day 2 17/07/2018	Binary operation, properties of binary operation, Definition of GROUP, SemiGroup, Finite and Infinite Group, Order of a Group
Week 1, Day 3 18/07/2018	Examples based on Group.
Week 1, Day 4 19/07/2018	Examples continued, General properties of Groups, Cancellation Laws.
Week 1, Day 5 20/07/2018	Examples, Order of an element of a Group, Theorems based on order of an element of a Group.
Week 1, Day 6 21/07/2018	Theorems and Examples based on order of an element of a Group.
Week 2	CYCLIC GROUPS:
Week 2, Day 1 23/07/2018	Complexes And subgroups of a Group, Definition of Subgroup, Theorems based on Subgroup.
Week 2, Day 2 24/07/2018	Theorems continued and Examples based on subgroup of aGroup.
Week 2, Day 3 25/07/2018	Cyclic Groups,Some theorems on Cyclic Group.
Week 2, Day 4 26/07/2018	Examples based on Cyclic Group, Definition of a Coset of a Group.
Week 2, Day 5 27/07/2018	Definition of Right Coset and Left Coset of a Group, Theorems on Cosets.
Week 2, Day 6 28/07/2018	Examples based on Coset,Definition of index of a subgroup in a Group.
Week 3	NORMAL SUBGROUP AND QUOTIENT GROUP:
Week 3, Day 1 30/07/2018	Langrange's Theorem, Some other theorems based on order of an element.
Week 3, Day 2 31/07/2018	Shaheed Udham Singh Martyrs' day

Week 3, Day 3 01/08/2018	Test of Group, Subgroup and Cosets.
Week 3, Day 4 02/08/2018	Definition Of Normal Subgroup, Simple Subgroup, Some Theorems On Normal Subgroup.
Week 3, Day 5 03/08/2018	Definition of Quotient Group, Theorems on Quotient Groups.
Week 3, Day 6 04/08/2018	GROUP DISCUSSION ON Group, Subgroup, Coset, Normal Subgroup, Quotient Group.
Week 4	HOMOMORPHISMS AND ISOMORPHISMS OF GROUPS
Week 4, Day 1 06/08/2018	Homomorphisms Of Groups, Isomorphisms Of Groups, Isomorphic Groups, Some Theorems On Homomorphisms.
Week 4, Day 2 07/08/2018	Examples Based On Homomorphisms
Week 4, Day 3 08/08/2018	Definition Of Kernel Of Homomorphisms And Examples Based On Kernel Of Homomorphisms Of Groups
Week 4, Day 4 09/08/2018	Fundamental Theorems Of Homomorphisms Of Groups, Second Theorem Of Isomorphisms
Week 4, Day 5 10/08/2018	Third Theorem Of Isomorphisms, Defintion Of Automormorphisms Of Groups, Examples Based On Automorphisms OF A Group
Week 4, Day 6 11/08/2018	Definition Of Inner Automorphisms, Examples Based On Inner Automorphisms
Week 5	AUTOMORPHISM OF A GROUP
Week 5, Day 1 13/08/2018	Teej
Week 5, Day 2 14/08/2018	Examples Continued, Theorems On Inner Automorphisms
Week 5, Day 3 15/08/2018	Independence Day
Week 5, Day 4 16/08/2018	Group Of Automorphisms Of A Cyclic Group, Examples Based On Cyclic Groups
Week 5, Day 5 17/08/2018	Definition Of Centre Of A Group, Examples And Theorems Based On Centre Of A Group
Week 5, Day 6 18/08/2018	Definition Of Normalizer Of An Element, Theorems Based On Normalizer And Centralizer Of An Element Of A Group
Week 6	AUTOMORPHISM OF A GROUP - CONTINUED
Week 6, Day 1 20/08/2018	Theorems Continued
Week 6, Day 2 21/08/2018	Conjugate Subgroup, Commutator Subgroup, Theorems Based On Commutator Subgroup

Week 6, Day 3 22/08/2018	<i>Id</i>
Week 6, Day 4 23/08/2018	Revision Of Homomorphisms, Isomorphisms And Automorphisms
Week 6, Day 5 24/08/2018	Group Discussion On Normal Subgroup, Simple Group And Quotient Group.
Week 6, Day 6 25/08/2018	Test Of Homomorphisms, Isomorphisms And Automorphisms
Week 7	PERMUTATION GROUPS
Week 7, Day 1 27/08/2018	Definition Of Permutation, Equality Of Permutation, Composition Of Two Functions, Examples Based On Composition Of Two Functions
Week 7, Day 2 28/08/2018	Identity Permutation, Inverse Of A Permutation, Permutation Group, Cyclic Permutation Of A Group
Week 7, Day 3 29/08/2018	Examples Based On Cyclic Permutation, Transposition, Disjoint Cycles
Week 7, Day 4 30/08/2018	Examples Based On Disjoint Cycles, Even And Odd Permutations
Week 7, Day 5 31/08/2018	Alternating Group, Centre Of Permutation Of A Group, Cayley Theorem.
Week 7, Day 6 01/09/2018	Group Discussion On Permutation Groups
Week 8	RINGS AND FIELDS
Week 8, Day 1 03/09/2018	Janamashtmi
Week 8, Day 2 04/09/2018	Definition Of Ring And Types Of Rings, Examples, Rings With Or Without Zero Divisors
Week 8, Day 3 05/09/2018	Talent Show (Tentative)
Week 8, Day 4 06/09/2018	Definition Of Integral Domain, Skew Field And Field, Theorems Based On Integral Domain, Skew Field And Field
Week 8, Day 5 07/09/2018	Examples Based On Integral Domain, Skew Field And Field
Week 8, Day 6 08/09/2018	Examples Continued, Definition Of Subrings
Week 9	SUBRINGS
Week 9, Day 1 10/09/2018	Definition Of Subrings And Theorems Based On Subrings
Week 9, Day 2 11/09/2018	Centre Of A Ring And It's Theorems, Examples

Week 9, Day 3 12/09/2018	Characteristics Of A Ring And Theorems On Characteristics Of A Ring
Week 9, Day 4 13/09/2018	Group Discussion On Ring, Subring, Integral Domain, Skew Field And Field
Week 9, Day 5 14/09/2018	Test Of Ring And Subring
Week 9, Day 6 15/09/2018	Test Of Field, Subfields And Integral Domain
Week 10	IDEALS AND QUOTIENT RINGS
Week 10, Day 1 17/09/2018	Definition Of Ideals,Examples Of Ideals,Sum Of Two Ideals,Ideal Generated By A Set, Product Of Two Ideals.
Week 10, Day 2 18/09/2018	Theorems On Ideals, Definition Of Principal Ideal, Unity Ideal, Maximal Ideal, Theorems Based On It.
Week 10, Day 3 19/09/2018	Theorems Continued
Week 10, Day 4 20/09/2018	Examples Based On Principal Ideal, maximal IdealAnd Prime Ideal.
Week 10, Day 5 21/09/2018	Examples Continued, Definition Of Quotient Ring And Its Examples.
Week 10, Day 6 22/09/2018	Definition Of Ring Homomorphism, Examples And Theorems Based On It, Definition Of Ring Isomorphism.
Week 11	HOMOMORPHISM OF RINGS
Week 11, Day 1 24/09/2018	Kernel Of A Ring Homomorphism, Theorems Based On Kernel And Examples.
Week 11, Day 2 25/09/2018	Fundamental Theorem Of Ring Homomorphism, First Theorem Of Isomorphism.
Week 11, Day 3 26/09/2018	Second Theorem Of Isomorphism, Examples Based On Ring Isomorphism.
Week 11, Day 4 27/09/2018	Embedding Of Rings, Embedded Ring, Set Of Quotient Of A Ring, Theorem On Embedded Ring.
Week 11, Day 5 28/09/2018	Sessionals (Tentative)
Week 11, Day 6 29/09/2018	Sessionals (Tentative)
Week 12	Sessionals (Tentative)
Week 12, Day 1 01/10/2018	Sessionals (Tentative)

Week 12, Day 3 03/10/2018	Sessionals (Tentative)
Week 12, Day 4 04/10/2018	Sessionals (Tentative)
Week 12, Day 5 05/10/2018	Theorems Continued On Embedded Ring And Examples Based On It.
Week 12, Day 6 06/10/2018	Test Of Topic Ideals And Quotient Rings.
Week 13	EUCLIDEAN RINGS:
Week 13, Day 1 08/10/2018	Divisibility In A Commutative Ring, Unit Element, Theorems Based On Unit Element, Associates.
Week 13, Day 2 09/10/2018	Prime Element,Irreducible Elements,Gaussian Integers,Greatest Common Divisor,Least Common Multiple.
Week 13, Day 3 10/10/2018	Aggarsen Jayanti
Week 13, Day 4 11/10/2018	Theorems Based On L.C.M And G.C.D, Euclidean Domain And Its Theorems.
Week 13, Day 5 12/10/2018	Principal Ideal Domain And Its Theorems
Week 13, Day 6 13/10/2018	Theorems Continued And Examples
Week 14	POLYNOMIAL RINGS:
Week 14, Day 1 15/10/2018	Group Discussion On Euclidean Ring, Euclidean Domain, G.C.D, L.C.M.
Week 14, Day 2 16/10/2018	Polynomial Rings, Degree Of A Polynomial, Polynomial Over A Ring, Embedding Of R Into R[X].
Week 14, Day 3 17/10/2018	Polynomials Over An Integral Domain, Theorems Based On Integral Domain.
Week 4, Day 4 18/10/2018	Dussehra
Week 14, Day 5 19/10/2018	Polynomial Over A Field and Theorems Based On It.
Week 14, Day 6 20/10/2018	Ring Of Polynomials In N Variables Over An Integral Domain, Divisibility Of Polynomials Over A Field.
Week 15	POLYNOMIAL RINGS CONTINUED:
Week 15, Day 1 22/10/2018	Divisor, Unit Element, Associates, Proper And Improper Divisors, Reducible And irreducible Element.
Week 15, Day 2 23/10/2018	G.C.D,Relatively Prime, Algorithm For R[X], Remainder Theorem.

Week 15, Day 3 24/10/2018	Valmiki Jayanti
Week 15, Day 4 25/10/2018	Theorems And Examples Based On Principal Ideal Domain
Week 15, Day 5 26/10/2018	Definition Of Unique Factorization Domain And Theoems Based On U.F.D.
Week 15, Day 6 27/10/2018	KarvaChauth
Week 16	
Week 16, Day 1 29/10/2018	Theorems Continued, Lemma Of Ascending Chain Of Ideals
Week 16, Day 2 30/10/2018	Primitive Polynomials, Irreducible Polynomials, Gauss Lemma, Converse Of Gauss Lemma
Week 16, Day 3 31/10/2018	Theorems On Units Of R And R[X], Theorems Based On Irreducible Elments In R[X]
Week 16, Day 4 01/11/2018	Haryana Day
Week 16, Day 5 02/11/2018	Field Of Quotients Of A U.F.D., Theorems And Lemma Based On It, Eisenstein's Irreducibility Criterion.
Week 16, Day 6 03/11/2018	Test Of Polynomial Rings
Week 17 04-11/11/2018	Diwali Break
Week 18 12-15/11/2018	REVISION

Name of AssistantProfessor: Manju Sharma
Class and Section : B.Sc.(Sem-3)

Subject : Advanced calculus(BM-231)

Prescribed to November 2018

Week 1	
Week 1, Day 1	Inaugural Hawan
16/07/2018	
Week 1,Day 2	Definition of Continuity and Sequential Continuity, Properties of
17/07/2018	continuousfunction
Week 1, Day 3	Definition of Uniform Continuity and examples
18/07/2018	
Week 1, Day 4	Chain rule of differentiability and examples
19/07/2018	
Week 1, Day 5	Rolle's theorem
20/07/2018	
Week 1, Day 6	Revision
21/07/2018	
Week 2	
Week 2, Day 1	Lagrange's Mean Value theorem and their geometrical interpretation
23/07/2018	
Week 2, Day 3	Examples
25/07/2018	
Week 2, Day 4	Taylor's theorem
26/07/2018	
Week 2, Day 5	Examples
27/07/2018	
Week 2, Day 6	Revision
28/07/2018	
Week 3	
Week 3, Day 1	Test
30/07/2018	
Week 3, Day 2	Shaheed Udham Singh Martyrs' day
31/07/2018	
Week 3, Day 3	Various form of Taylor's theorem
01/08/2018	
Week 3, Day 4	Examples
02/08/2018	Desitate in
Week 3, Day 5 03/08/2018	Revision
Week 3, Day 6	Test
04/08/2018	1081
Week 4	
Week 4, Day 1	Darboux theorem
06/08/2018	Duroux moron
Week 4, Day 2	Darboux intermediate value theorem for derivative
07/08/2018	2 modern modern for doll fully
Week 4, Day 3	Intermediate forms
08/08/2018	
Week 4, Day 4	Examples
09/08/2018	
Week 4, Day 5	Group discussin
10/08/2018	

Week 4, Day 6	Test
11/08/2018	Test
Week 5	
Week 5, Day 1	Teej
13/08/2018	Teej
Week 5, Day 2	Limit continuity of real valued functions of two variables
14/08/2018	Limit continuity of real valued functions of two variables
Week 5, Day 3	Independence Day
15/08/2018	Independence Day
Week 5, Day 4	Examples
16/08/2018	Examples
Week 5, Day 5	Partial differentation
17/08/2018	Fatual differentation
Week 5, Day 6	Total differential
18/08/2018	Total differential
Week 6	
	Examples
Week 6, Day 1 20/08/2018	Liamples
Week 6, Day 2	Definition of composite functions and implicit functions
21/08/2018	Definition of composite functions and implicit functions
Week 6, Day 3	Id
22/08/2018	Ia
	Change of variables
Week 6, Day 4 23/08/2018	Change of variables
	Home conseque for etions and examples
Week 6, Day 5 24/08/2018	Homogeneous functions and examples
	Enlare the common Henry Court on
Week 6, Day 6	Euler's theorem on Homogeneous functions
25/08/2018 Week 7	
	Evamples
Week 7, Day 1 27/08/2018	Examples
	Test
Week 7, Day 2 28/08/2018	Test
Week 7, Day 3	Taylor's theorem for functions of two variables
29/08/2018	Taylor's theorem for functions of two variables
	Evamples
Week 7, Day 4 30/08/2018	Examples
Week 7, Day 5	Revision
31/08/2018	INCVISION .
Week 7, Day 6	Group discussion
01/09/2018	Group discussion
Week 8	
Week 8, Day 1	Janamashtmi
03/09/2018	Junumusmmi
Week 8, Day 2	Differentiability of real valued function of two variables
04/09/2018	Differentiability of real variety function of two variables
Week 8, Day 3	TalesyTale(<i>Tentative</i>)
05/09/2018	Talesy Tale(Temante)
Week 8, Day 4	Examples
06/09/2018	Damples
Week 8, Day 5	Schwartz theorem and examples
07/09/2018	Senwartz dicorem and examples
Week 8, Day 6	Young's theorem and examples
08/09/2018	1 oding 8 dicorem and examples
00/07/2010	

Week 9	
Week 9, Day 1	Implicit function theorem
10/09/2018	Implicit function theorem
Week 9, Day 2	Examples
11/09/2018	Examples
Week 9, Day 3	Revision
12/09/2018	REVISION
Week 9, Day 4	Test
13/09/2018	Test
Week 9, Day 5	Definition of maxima and minima
14/09/2018	
Week 9, Day 6	Example
15/09/2018	Example
Week 10	
Week 10, Day 1	Definition of saddle points of two variables
17/09/2018	Definition of saddle points of two variables
Week 10, Day 2	Lagrange's method of multiplayer
18/09/2018	Lagrange's method of multiplayer
Week 10, Day 3	Examples
19/09/2018	Examples
Week 10, Day 4	Group discussion
20/09/2018	Group discussion
Week 10, Day 5	Examples
21/09/2018	Examples
Week 10, Day 6	Test
22/09/2018	Test
Week 11	
Week 11, Day 1	Definition of tangent
24/09/2018	Definition of tangent
Week 11, Day 2	Definition of principal normals
25/09/2018	Bernitton of principal normals
Week 11, Day 3	Definition of binormals
26/09/2018	Definition of omornals
Week 11, Day 4	Examples
27/09/2018	Enumpres
Week 11, Day 5	Sessionals (Tentative)
28/09/2018	2 5352521112 (2 5211112)
Week 11, Day 6	Sessionals (Tentative)
29/09/2018	· · · · · · · · · · · · · · · · · · ·
Week 12	Sessionals (Tentative)
Week 12, Day 1	Sessionals (Tentative)
01/10/2018	
Week 12, Day 2	Gandhi Jayanti
02/10/2018	
Week 12, Day 3	Sessionals (Tentative)
03/10/2018	
Week 12, Day 4	Sessionals (Tentative)
04/10/2018	
Week 12, Day 5	Serret- Frenet formulae
05/10/2018	
Week 12, Day 6	Examples
06/10/2018	
Week 13	
Week 13, Day 1	Locus of the centre of curvature

08/10/2018	
Week 13, Day 2	Examples
09/10/2018	Examples
Week 13, Day 3	Aggarsen Jayanti
10/10/2018	11gguistii suyunu
Week 13, Day 4	Test
11/10/2018	Test
Week 13, Day 5	Spherical curvature
12/10/2018	Spherical cul value
Week 13, Day 6	Examples
13/10/2018	Examples
Week 14	
Week 14, Day 1	Revision
15/10/2018	Revision
Week 14, Day 2	Locus of center of spherical curvature
16/10/2018	Escus of center of spherical curvature
Week 14, Day 3	Examples
17/10/2018	
Week 4, Day 4	Dussehra
18/10/2018	Dussonia
Week 14, Day 5	Test
19/10/2018	
Week 14, Day 6	Definition of involutes and evoluted
20/10/2018	Definition of involutes and evoluted
Week 15	
Week 15, Day 1	Examples
22/10/2018	
Week 15, Day 2	Bertrand curves
23/10/2018	
Week 15, Day 3	Valmiki Jayanti
24/10/2018	
Week 15, Day 4	Test
25/10/2018	
Week 15, Day 5	Definition of tangent planes
26/10/2018	
Week 15, Day 6	Karva Chauth
27/10/2018	
Week 16	
Week 16, Day 1	Examples
29/10/2018	
Week 16, Day 2	One parameter family of surfaces
30/10/2018	
Week 16, Day 3	Examples
31/10/2018	
Week 16, Day 4	Haryana Day
01/11/2018	
Week 16, Day 5	Envelopes
02/11/2018	
Week 16, Day 6	Revision and test
03/11/2018	
Week 17	Diwali Break
04-11/11/2018	
Week 18	Preparatory Holidays
12-15/11/2018	

Name of Assistant Professor: Manju Sharma Class: B.Sc. III (fifth semester)

Subject: Real Analysis From July-November 2018

Week 1	
Week 1, Day 1	Inaugural Hawan
16/07/2018	
Week 1, Day 2	Chapter 1:Riemann Integral
17/07/2018	Definition of Partition, Norm of a partition, Refinement of a partition, Upper
	and Lower sums.
Week 1, Day 3	Oscillatory sum, Theorems based on upper and lower sums.
18/07/2018	
Week 1, Day 4	Continue
19/07/2018	
Week 1, Day 5	Definition of Riemann Integral, Related examples
20/07/2018	
Week 1, Day 6	Continue
21/07/2018	
Week 2	
Week 2, Day 1	Darboux Theorem
23/07/2018	
Week 2, Day 2	Theorems based on conditions of integrability
24/07/2018	
Week 2, Day 3	Integrability of continuous functions, Related theorems
25/07/2018	
Week 2, Day 4	Continue
26/07/2018	
Week 2, Day 5	Examples based on it
27/07/2018	
Week 2, Day 6	Integrability of monotonic functions, Integral as a sum of limit
28/07/2018	
Week 3	
Week 3, Day 1	Riemann sum, Second definition of integrability, Related theorems
30/07/2018	
Week 3, Day 2	Shaheed Udham Singh Martyrs' day
31/07/2018	
Week 3, Day 3	Related theorems and examples.
01/08/2018	
Week 3, Day 4	Continue
02/08/2018	
Week 3, Day 5	Continue
03/08/2018	
Week 3, Day 6	Theorems based on properties of Riemann Integral.
04/08/2018	
Week 4	
Week 4, Day 1	Continue
06/08/2018	
Week 4, Day 2	Continue
07/08/2018	
Week 4, Day 3	Continue
08/08/2018	
Week 4, Day 4	Continue

09/08/2018	
	The company on continuity and differentiability of intermable functions
Week 4, Day 5	Theorms on continuity and differentiability of integrable functions.
10/08/2018	
Week 4, Day 6	Primitive of a function, Fundamental theorem of integral calculus.
11/08/2018	
Week 5	
Week 5, Day 1	Teej
13/08/2018	
Week 5, Day 2	Mean value theorems of integral calculus, Related examples
14/08/2018	
Week 5, Day 3	Independence Day
15/08/2018	
Week 5, Day 4	Continue
16/08/2018	
Week 5, Day 5	Continue
17/08/2018	Continue
Week 5, Day 6	Test of chapter 1
	Test of chapter 1
18/08/2018	
Week 6	
Week 6, Day 1	Chapter 2:Improper Integral
20/08/2018	Definition of Improper integral, Types of Improper integral, Convergence of
	Improper integral.
Week 6, Day 2	Related examples.
21/08/2018	
Week 6, Day 3	Id
22/08/2018	
Week 6, Day 4	Continue
23/08/2018	
Week 6, Day 5	Examples based on when improper integral is of second kind.
24/08/2018	
Week 6, Day 6	Comparision tests for convergence of improper integral.
25/08/2018	grand of an experience of the second of the
Week 7	
Week 7, Day 1	Related theorems and examples.
27/08/2018	Related theorems and examples.
Week 7, Day 2	Continue
28/08/2018	Continue
	Continue
Week 7, Day 3	Continue
29/08/2018	Continue
Week 7, Day 4	Continue
30/08/2018	
Week 7, Day 5	Cauchy test, Absolute convergence, Related theorem.
31/08/2018	
Week 7, Day 6	Related examples
01/09/2018	
Week 8	
Week 8, Day 1	Janamashtmi
03/09/2018	
Week 8, Day 2	Comparision tests for convergence at infinity.
04/09/2018	
Week 8, Day 3	Talent Show (Tentative)
05/09/2018	` ′
Week 8, Day 4	Related examples and theorems
06/09/2018	F
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Week 8, Day 5 07/09/2018	Abel test for convergence, Related examples
Week 8, Day 6	Dirchlet test for convergence
08/09/2018	Diremet test for convergence
Week 9	
Week 9, Day 1	Related examples
10/09/2018	
Week 9, Day 2	Frullani"s Integral, Related examples.
11/09/2018	
Week 9, Day 3	Chapter 3:Integral as a function of a parameter
12/09/2018	Continuity of the integral, Leibnitz rule.
Week 9, Day 4	Integral as a function of a parameter
13/09/2018	
Week 9, Day 5	Related examples.
14/09/2018	T
Week 9, Day 6	Test of chapter 2
15/09/2018	1 cot of enapter 2
Week 10	
Week 10, Day 1	Chapter 4:Metric Spaces
17/09/2018	Definition of metric space, Some examples of metric spaces.
Week 10, Day 2	Continue
18/09/2018	Continue
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Week 10, Day 3	Bounded Sequence, Related examples.
19/09/2018	
Week 10, Day 4	Bounded function, Induced metric
20/09/2018	
Week 10, Day 5	Semi-metric spaces, Distance between point and subset
21/09/2018	
Week 10, Day 6	Diameter of a subset, Distance between two subsets, Bounded and
22/09/2018	unbounded metric spaces
Week 11	
Week 11, Day 1	Chapter 5:Open and Closed sets in metric space
24/09/2018	Definition of open and closed ball and related examples.
Week 11, Day 2	Interior point, Neighbourhood of a point, Interior of a set
25/09/2018	
Week 11, Day 3	Open set, Related theorems
26/09/2018	
Week 11, Day 4	Continue
27/09/2018	
Week 11, Day 5	Sessionals (Tentative)
28/09/2018	
Week 11, Day 6	Sessionals (Tentative)
29/09/2018	
Week 12	Sessionals (Tentative)
Week 12, Day 1	Sessionals (Tentative)
01/10/2018	
Week 12, Day 2	Gandhi Jayanti
02/10/2018	
Week 12, Day 3	Sessionals (Tentative)
03/10/2018	
Week 12, Day 4	Sessionals (Tentative)
04/10/2018	
Week 12, Day 5	Adherent point, Limit point, Isolated point, Derived set, Closure of a set.
05/10/2018	
	-

	Closed set Theorems based on it
Week 12, Day 6 06/10/2018	Closed set, Theorems based on it
Week 13	
Week 13, Day 1	Continue
08/10/2018	
Week 13, Day 2	Exterior points and exterior of a set, Frontier points, Boundary points
09/10/2018	
Week 13, Day 3	Aggarsen Jayanti
10/10/2018	
Week 13, Day 4	Subspaces of a metric space
11/10/2018	
Week 13, Day 5	Chapter 6: Completeness in metric spaces
12/10/2018	Convergence in metric spaces, Cauchy sequences
Week 13, Day 6	Related theorems
13/10/2018	Troiting theorems
Week 14	
Week 14, Day 1	Complete metric space, Related theorems
15/10/2018	Complete metric space, related theorems
Week 14, Day 2	Cantor Intersection theorem, Nowhere dense set
, ,	Cantor intersection theorem, Nowhere dense set
16/10/2018	
Week 14, Day 3	Baire"s category space, Contraction principle in a metric space
17/10/2018	
Week 4, Day 4	Dussehra
18/10/2018	
Week 14, Day 5	Chapter: 7 Continuity and Uniform continuity in metric spaces
19/10/2018	Continuous functions, Related theorems
Week 14, Day 6	Uniform continuity and theorems
20/10/2018	
Week 15	
Week 15, Day 1	Chapter 8:Compactness in metric spaces
22/10/2018	Definition of covers, Compact set and compact metric space
Week 15, Day 2	BWP, Sequentially compact metric space, Related theorems
23/10/2018	
23/10/2018 Week 15, Day 3	Valmiki Jayanti
Week 15, Day 3	Valmiki Jayanti
Week 15, Day 3 24/10/2018	
Week 15, Day 3 24/10/2018 Week 15, Day 4	Valmiki Jayanti Countably compact spaces and theorems
Week 15, Day 3 24/10/2018 Week 15, Day 4 25/10/2018	Countably compact spaces and theorems
Week 15, Day 3 24/10/2018 Week 15, Day 4 25/10/2018 Week 15, Day 5	
Week 15, Day 3 24/10/2018 Week 15, Day 4 25/10/2018 Week 15, Day 5 26/10/2018	Countably compact spaces and theorems Finite Intersection Property, Total boundedness, Related theorems
Week 15, Day 3 24/10/2018 Week 15, Day 4 25/10/2018 Week 15, Day 5 26/10/2018 Week 15, Day 6	Countably compact spaces and theorems
Week 15, Day 3 24/10/2018 Week 15, Day 4 25/10/2018 Week 15, Day 5 26/10/2018 Week 15, Day 6 27/10/2018	Countably compact spaces and theorems Finite Intersection Property, Total boundedness, Related theorems
Week 15, Day 3 24/10/2018 Week 15, Day 4 25/10/2018 Week 15, Day 5 26/10/2018 Week 15, Day 6 27/10/2018 Week 16	Countably compact spaces and theorems Finite Intersection Property, Total boundedness, Related theorems **KarvaChauth**
Week 15, Day 3 24/10/2018 Week 15, Day 4 25/10/2018 Week 15, Day 5 26/10/2018 Week 15, Day 6 27/10/2018 Week 16 Week 16, Day 1	Countably compact spaces and theorems Finite Intersection Property, Total boundedness, Related theorems
Week 15, Day 3 24/10/2018 Week 15, Day 4 25/10/2018 Week 15, Day 5 26/10/2018 Week 15, Day 6 27/10/2018 Week 16, Day 1 29/10/2018	Countably compact spaces and theorems Finite Intersection Property, Total boundedness, Related theorems **KarvaChauth** Continuity in relation with compactness.**
Week 15, Day 3 24/10/2018 Week 15, Day 4 25/10/2018 Week 15, Day 5 26/10/2018 Week 15, Day 6 27/10/2018 Week 16 Week 16, Day 1 29/10/2018 Week 16, Day 2	Countably compact spaces and theorems Finite Intersection Property, Total boundedness, Related theorems **KarvaChauth** Continuity in relation with compactness. Chapter 9: Connectedness in metric spaces
Week 15, Day 3 24/10/2018 Week 15, Day 4 25/10/2018 Week 15, Day 5 26/10/2018 Week 15, Day 6 27/10/2018 Week 16, Day 1 29/10/2018 Week 16, Day 1 29/10/2018 Week 16, Day 2 30/10/2018	Countably compact spaces and theorems Finite Intersection Property, Total boundedness, Related theorems **KarvaChauth** Continuity in relation with compactness. Chapter 9: Connectedness in metric spaces Separated sets, Connected and Disconnected sets
Week 15, Day 3 24/10/2018 Week 15, Day 4 25/10/2018 Week 15, Day 5 26/10/2018 Week 15, Day 6 27/10/2018 Week 16 Week 16, Day 1 29/10/2018 Week 16, Day 2 30/10/2018 Week 16, Day 3	Countably compact spaces and theorems Finite Intersection Property, Total boundedness, Related theorems **KarvaChauth** Continuity in relation with compactness. Chapter 9: Connectedness in metric spaces
Week 15, Day 3 24/10/2018 Week 15, Day 4 25/10/2018 Week 15, Day 5 26/10/2018 Week 15, Day 6 27/10/2018 Week 16, Day 1 29/10/2018 Week 16, Day 1 29/10/2018 Week 16, Day 2 30/10/2018 Week 16, Day 3 31/10/2018	Countably compact spaces and theorems Finite Intersection Property, Total boundedness, Related theorems **KarvaChauth** Continuity in relation with compactness. Chapter 9: Connectedness in metric spaces Separated sets, Connected and Disconnected sets Properties of separated sets, Related theorems
Week 15, Day 3 24/10/2018 Week 15, Day 4 25/10/2018 Week 15, Day 5 26/10/2018 Week 15, Day 6 27/10/2018 Week 16, Day 1 29/10/2018 Week 16, Day 2 30/10/2018 Week 16, Day 3 31/10/2018 Week 16, Day 3	Countably compact spaces and theorems Finite Intersection Property, Total boundedness, Related theorems **KarvaChauth** Continuity in relation with compactness. Chapter 9: Connectedness in metric spaces Separated sets, Connected and Disconnected sets
Week 15, Day 3 24/10/2018 Week 15, Day 4 25/10/2018 Week 15, Day 5 26/10/2018 Week 15, Day 6 27/10/2018 Week 16 Week 16, Day 1 29/10/2018 Week 16, Day 2 30/10/2018 Week 16, Day 3 31/10/2018 Week 16, Day 3 401/11/2018	Countably compact spaces and theorems Finite Intersection Property, Total boundedness, Related theorems **KarvaChauth** Continuity in relation with compactness. Chapter 9: Connectedness in metric spaces Separated sets, Connected and Disconnected sets Properties of separated sets, Related theorems
Week 15, Day 3 24/10/2018 Week 15, Day 4 25/10/2018 Week 15, Day 5 26/10/2018 Week 15, Day 6 27/10/2018 Week 16, Day 1 29/10/2018 Week 16, Day 1 29/10/2018 Week 16, Day 2 30/10/2018 Week 16, Day 3 31/10/2018 Week 16, Day 3 Week 16, Day 4 01/11/2018 Week 16, Day 5	Countably compact spaces and theorems Finite Intersection Property, Total boundedness, Related theorems **KarvaChauth** Continuity in relation with compactness. Chapter 9: Connectedness in metric spaces Separated sets, Connected and Disconnected sets Properties of separated sets, Related theorems
Week 15, Day 3 24/10/2018 Week 15, Day 4 25/10/2018 Week 15, Day 5 26/10/2018 Week 15, Day 6 27/10/2018 Week 16, Day 1 29/10/2018 Week 16, Day 1 29/10/2018 Week 16, Day 2 30/10/2018 Week 16, Day 3 31/10/2018 Week 16, Day 4 01/11/2018 Week 16, Day 5 02/11/2018	Countably compact spaces and theorems Finite Intersection Property, Total boundedness, Related theorems **KarvaChauth** Continuity in relation with compactness. Chapter 9: Connectedness in metric spaces Separated sets, Connected and Disconnected sets Properties of separated sets, Related theorems **Haryana Day** Related theorems , Components
Week 15, Day 3 24/10/2018 Week 15, Day 4 25/10/2018 Week 15, Day 5 26/10/2018 Week 15, Day 6 27/10/2018 Week 16, Day 1 29/10/2018 Week 16, Day 1 29/10/2018 Week 16, Day 2 30/10/2018 Week 16, Day 3 31/10/2018 Week 16, Day 4 01/11/2018 Week 16, Day 5 02/11/2018 Week 16, Day 6	Countably compact spaces and theorems Finite Intersection Property, Total boundedness, Related theorems **KarvaChauth** Continuity in relation with compactness. Chapter 9: Connectedness in metric spaces Separated sets, Connected and Disconnected sets Properties of separated sets, Related theorems **Haryana Day**
Week 15, Day 3 24/10/2018 Week 15, Day 4 25/10/2018 Week 15, Day 5 26/10/2018 Week 15, Day 6 27/10/2018 Week 16, Day 1 29/10/2018 Week 16, Day 1 29/10/2018 Week 16, Day 2 30/10/2018 Week 16, Day 3 31/10/2018 Week 16, Day 4 01/11/2018 Week 16, Day 5 02/11/2018	Countably compact spaces and theorems Finite Intersection Property, Total boundedness, Related theorems **KarvaChauth** Continuity in relation with compactness. Chapter 9: Connectedness in metric spaces Separated sets, Connected and Disconnected sets Properties of separated sets, Related theorems **Haryana Day** Related theorems , Components

Week 17	Diwali Break
04-11/11/2018	
Week 18	Revision
12-15/11/2018	