

13.07.2018 to 05.11.2018

Name of the Assistant/ Associate Professor... Parddeep KumarClass and Section: BAI Sec IB.M-113Subject: Mathematics Paper code: Solid Geometry

Week	Date	Topics
1	13-July-18	—
	14-July-18	—
	15-July-18	Sunday
	16-July-18	Orientations
	17-July-18	Orientations
	18-July-18	Revision of +2
	19-July-18	—do—
2	20-July-18	—do—
	21-July-18	—do—
	22-July-18	Sunday
	23-July-18	General eq of second degree. To
	24-July-18	find center, lengths of axes; eccentricity
	25-July-18	city on eq of the axes of general
	26-July-18	equations of second degree.
3	27-July-18	Asymptotes; parabola;
	28-July-18	General Conic; Director Circle
	29-July-18	Sunday
	30-July-18	pole & polar; eq of tangent; eq of chord
	31-July-18	Shaheed Udham Singh's Martyrdom Day

Lesson Plan

Week	Date	Topics
1	01-Aug-18	Chord of Contact; Tracing of Conics
	02-Aug-18	Confocal Conics
	03-Aug-18	Confocal Conics Continue.
	04-Aug-18	polar equation of Conics
2	05-Aug-18	Sunday
	06-Aug-18	eq of line; Circle; Conic's
	07-Aug-18	polar Co-ordinates eq of chord
	08-Aug-18	Joining two pts. Examples & questions
	09-Aug-18	Test.
	10-Aug-18	Sphere; eq examples & questions.
	11-Aug-18	Intersection of line & sphere
3	12-Aug-18	Sunday
	13-Aug-18	Diameter plane; Tangent plane
	14-Aug-18	Conditions of tangency
	15-Aug-18	Independence Day
	16-Aug-18	plane of Contact; polar plane
	17-Aug-18	pole of a given plane
	18-Aug-18	Angle of intersection of spheres
	4	19-Aug-18
20-Aug-18		Conditions of orthogonality of spheres
21-Aug-18		Radical plane; examples and
22-Aug-18		Id-Ul-Zuha
23-Aug-18		questions
24-Aug-18		Cone; Homoc equations; examples
25-Aug-18		& questions
5		26-Aug-18
	27-Aug-18	Right circular Cone; its
	28-Aug-18	equations; examples & questions
	29-Aug-18	Enveloping Cone
	30-Aug-18	Intersection of a line and Cone
	31-Aug-18	Conditions that a Cone may have three mutually perpendicular generators

Lesson Plan

Week	Date	Topics
1	1-Sep-18	Cylinder; examples and questions.
	2-Sep-18	Sunday
	3-Sep-18	Janamshatmi
	4-Sep-18	Right circular cylinder.
2	5-Sep-18	Enveloping cylinder
	6-Sep-18	cylinder as a limiting case of cone
	7-Sep-18	Examples & questions
	✓ 8-Sep-18	Test-2.
	9-Sep-18	Sunday
	10-Sep-18	Conicoid; central conicoid.
3	11-Sep-18	Tracing of central conicoid;
	12-Sep-18	Continue
3	13-Sep-18	Continue
	14-Sep-18	Intersection of a line and conicoid.
	15-Sep-18	Tangent plane; Examples &
	16-Sep-18	Sunday
	17-Sep-18	questions.
	18-Sep-18	Director sphere; Normal to
	4	19-Sep-18
20-Sep-18		Examples & questions
21-Sep-18		polar plane of a point; pole
22-Sep-18		Conditions for two planes to be
23-Sep-18		Sunday/Haryana Heroes' Martyrdom Day
24-Sep-18		Conjugate; examples & questions
25-Sep-18		enveloping cone; cylinder
5		26-Sep-18
	27-Sep-18	Tracing of paraboloid
	28-Sep-18	Hyperboloid; examples &
	29-Sep-18	questions
	30-Sep-18	Sunday

Lesson Plan

Week	Date	Topics
1	1-Oct-18	Normals to an elliptic paraboloid
	2-Oct-18	Mahatma Gandhi Jayanti
	3-Oct-18	Number of normals
	4-Oct-18	plane sections of Conicoid
	5-Oct-18	Area of the central plane sections
	6-Oct-18	Examples & questions,
	7-Oct-18	Sunday
2	8-Oct-18	Generating lines of a hyperboloids ¹ of one sheet.
	9-Oct-18	
	10-Oct-18	Maharaja Agrasen Jyanti
	11-Oct-18	properties of generating lines of hyperboloid of one sheet.
	12-Oct-18	Examples
	13-Oct-18	Examples
	14-Oct-18	Sunday
	3	15-Oct-18
16-Oct-18		questions
17-Oct-18		Test.
18-Oct-18		Dussehra
19-Oct-18		Generating lines of a paraboloids
20-Oct-18		questions & examples.
21-Oct-18		Sunday
4	22-Oct-18	questions
	23-Oct-18	Confocal Conicoids
	24-Oct-18	Maharishi Valmiki's Birthday
	25-Oct-18	Examples & questions
	26-Oct-18	Reductions of second degree equations to ellipsoid;
	27-Oct-18	
	28-Oct-18	Sunday
	5	29-Oct-18
30-Oct-18		two sheets; Cone;
31-Oct-18		Elliptic paraboloids; etc

Lesson Plan

Week	Date	Topics
	1-Nov-18	Haryana Day
	2-Nov-18	Examples and questions
	3-Nov-18	Revision
	4-Nov-18	Sunday
	5-Nov-18	TEST

Lesson Plan1st Teaching Term (Odd Semester)

13.07.2018 to 05.11.2018

Name of the Assistant/ Associate Professor... Pardeep KumarClass and Section: ... BA / Sec. 5Subject: ... Mathematics Paper code: ... Algebra QM 111

Week	Date	Topics
1	13-July-18	Relation between roots and coeffs.
	14-July-18	Division algorithm Theorems
	15-July-18	Sunday
	16-July-18	Remainder Theorem, Examples &
	17-July-18	questions of Exercise
	18-July-18	Fundamental Theorem of algebra
	19-July-18	Δ Theorem allied to it
2	20-July-18	Theorems
	21-July-18	Examples & questions.
	22-July-18	Sunday
	23-July-18	Relation between roots and coefficients
	24-July-18	Examples and questions from Exercise
	25-July-18	Continuation.
	26-July-18	Common roots, Equal roots
3	27-July-18	Transforms of equations
	28-July-18	Test-I
	29-July-18	Sunday
	30-July-18	Reciprocal equations
	31-July-18	Shaheed Udham Singh's Martyrdom Day

Lesson Plan

Week	Date	Topics
1	01-Aug-18	Examples
	02-Aug-18	Question from Exercise
	03-Aug-18	Roots diminished by a given number
	04-Aug-18	Removal of terms in General
2	05-Aug-18	Sunday
	06-Aug-18	Transformation of cubic eq to std eq
	07-Aug-18	Transformation of biquadratic eq to std eq
	08-Aug-18	Transformation in General.
	09-Aug-18	examples
	10-Aug-18	Question from Exercise.
✓ 11-Aug-18	Test-2	
3	12-Aug-18	Sunday
	13-Aug-18	Solution of cubic & biquadratic eq.
	14-Aug-18	Cardan's method
	15-Aug-18	Independence Day
	16-Aug-18	Irreducible case of Cardan's method
	17-Aug-18	Example
	18-Aug-18	questions
	4	19-Aug-18
20-Aug-18		Test-2
21-Aug-18		Descartes's method for solution
22-Aug-18		Id-UI-Zuha
23-Aug-18		to biquadratic equations
24-Aug-18		Example & question
25-Aug-18		Continue
5		26-Aug-18
	27-Aug-18	Test-3
	28-Aug-18	Ferrari's method of solving
	29-Aug-18	biquadratic
	30-Aug-18	examples & question
	31-Aug-18	Continue

Lesson Plan

Week	Date	Topics
1	1-Sep-18	Revision
	2-Sep-18	Sunday
	3-Sep-18	Janamshatmi
	4-Sep-18	Revision Test
2	5-Sep-18	matrices ; Defining
	6-Sep-18	Theorems ; solutions of systems
	7-Sep-18	of equations
	8-Sep-18	Symmetric & skew symmetric
	9-Sep-18	Sunday
	10-Sep-18	matrices ; Theorems
	11-Sep-18	examples and questions
3	12-Sep-18	Orthogonal & unitary matrices
	13-Sep-18	properties
	14-Sep-18	rank of a matrix
	15-Sep-18	Normal form of a matrix
	16-Sep-18	Sunday
	17-Sep-18	rank of a matrix
	18-Sep-18	Examples & questions
4	19-Sep-18	Continue
	20-Sep-18	Test
	21-Sep-18	characteristic equations of a matrix
	22-Sep-18	Characteristic vector scalar poly and
	23-Sep-18	Sunday/Haryana Heroes' Martyrdom Day
	24-Sep-18	matrix polynomial
	25-Sep-18	Cayley Hamilton Theorem
	26-Sep-18	Minimal polynomial and minimal
5	27-Sep-18	equations of a matrix
	28-Sep-18	Derogatory & Non derogatory
	29-Sep-18	matrices ; Examp and questions
	30-Sep-18	Sunday

Lesson Plan

Week	Date	Topics
1	1-Oct-18	System of Non homogeneous eq
	2-Oct-18	Mahatma Gandhi Jayanti
	3-Oct-18	Examples & questions
	4-Oct-18	Continue
	5-Oct-18	System of homogeneous eqs
	6-Oct-18	examples and questions
	7-Oct-18	Sunday
2	8-Oct-18	Continue
	9-Oct-18	Bilinear & quadratic forms
	10-Oct-18	Maharaja Agrasen Jyanti
	11-Oct-18	Canonical form of Bilinear forms
	12-Oct-18	Factorizable bilinear forms.
	13-Oct-18	Examples
	14-Oct-18	Sunday
3	15-Oct-18	Quadratic forms
	16-Oct-18	Linear transformations of a quadratic
	17-Oct-18	form; diagonalization of a Quadratic
	18-Oct-18	Dussehra
	19-Oct-18	Examples & questions
	20-Oct-18	Lagrange's method of diagonalization
	21-Oct-18	Sunday
4	22-Oct-18	Factorable Quadratic forms
	23-Oct-18	Revision
	24-Oct-18	Maharishi Valmiki's Birthday
	25-Oct-18	Test -
	26-Oct-18	Revision
	27-Oct-18	Test
	28-Oct-18	Sunday
	5	29-Oct-18
30-Oct-18		Test
31-Oct-18		Revision of unit II

Lesson Plan

Week	Date	Topics
1	1-Nov-18	Haryana Day
	2-Nov-18	Test
	3-Nov-18	Revision unit-3
	4-Nov-18	Sunday
	5-Nov-18	Test

13.07.2018 to 05.11.2018

Name of the Assistant/ Associate Professor... Poojeet KumarClass and Section: BA/BSc IISubject: Mathematics Paper code: Statistics

Week	Date	Topics
1	13-July-18	Preliminaries ; Mechanics & its branches
	14-July-18	definitions
	15-July-18	Sunday
	16-July-18	Principle of independence of forces.
	17-July-18	parallelogram of forces.
	18-July-18	Examples & Exercise
	19-July-18	questions based on N-gon law.
2	20-July-18	Resolution of forces.
	21-July-18	Exercise.
	22-July-18	Sunday
	23-July-18	Exercise
	24-July-18	Triangle law of forces. & Convex.
	25-July-18	A-M Theorem.
	26-July-18	Lami's Theorem, Theorem on Resultant
3	27-July-18	parts and its questions
	28-July-18	Equilibrium of bodies placed on
	29-July-18	Sunday
	30-July-18	smooth inclined plane
	31-July-18	Shaheed Udham Singh's Martyrdom Day

Lesson Plan

Week	Date	Topics
1	01-Aug-18	parallel forces
	02-Aug-18	
	03-Aug-18	
	04-Aug-18	
2	05-Aug-18	Sunday
	06-Aug-18	Moments; Definition; Geometrical
	07-Aug-18	interpretation; units and its questions
	08-Aug-18	Varignon's Theorem.
	09-Aug-18	Resultant of forces
	10-Aug-18	questions
	11-Aug-18	Test
3	12-Aug-18	Sunday
	13-Aug-18	Couples; Definition; Moment of a
	14-Aug-18	Couple; Theorems and questions
	15-Aug-18	Independence Day
	16-Aug-18	Revisions.
	17-Aug-18	questions
	✓ 18-Aug-18	Test.
	4	19-Aug-18
20-Aug-18		Analytical Conditions of equilibrium
21-Aug-18		of Coplanar forces.
22-Aug-18		Id-Ul-Zuha
23-Aug-18		questions
24-Aug-18		questions.
25-Aug-18		questions.
5		26-Aug-18
	27-Aug-18	Frictions; stages and kind
	28-Aug-18	of friction
	29-Aug-18	coefficient of friction.
	30-Aug-18	Theorems
	31-Aug-18	Theorems

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Lesson Plan

Week	Date	Topics
1	1-Sep-18	Examples based on friction
	2-Sep-18	Sunday
	3-Sep-18	Janamshatmi
	4-Sep-18	Exercise
2	5-Sep-18	- do -
	6-Sep-18	- do -
	7-Sep-18	Revision
	8-Sep-18	Test.
	9-Sep-18	Sunday
	10-Sep-18	Center of gravity.
	11-Sep-18	C.G. of thin uniform lamina.
3	12-Sep-18	C.G. of wire bent into the form of a square
	13-Sep-18	Triangle
	14-Sep-18	Examples & Exercise
	15-Sep-18	Exercise
	16-Sep-18	Sunday
	17-Sep-18	To find C.G. of body by integration
	✓ 18-Sep-18	C.G. of uniform circular wire.
4	19-Sep-18	C.G. of a segment of a circle
	20-Sep-18	Example & Exercise
	21-Sep-18	Test.
	22-Sep-18	Virtual work
	23-Sep-18	Sunday/Haryana Heroes' Martyrdom Day
	24-Sep-18	Principals of virtual work.
	25-Sep-18	question of Exercise.
5	26-Sep-18	Examples
	27-Sep-18	Examples.
	28-Sep-18	Exercise
	29-Sep-18	Exercise
	30-Sep-18	Sunday

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Lesson Plan

Week	Date	Topics
1	1-Oct-18	Test.
	2-Oct-18	Mahatma Gandhi Jayanti
	3-Oct-18	Forces in three dimensions
	4-Oct-18	Theorem :- A system of forces
	5-Oct-18	reduced to single force & couple
	6-Oct-18	Conditions of equilibrium of a body
	7-Oct-18	Sunday
2	8-Oct-18	Poinot's Central axis
	9-Oct-18	Equation of central axis & questions
	10-Oct-18	Maharaja Agrasen Jyanti
	11-Oct-18	Examples
	12-Oct-18	Examples
	13-Oct-18	Examples
	14-Oct-18	Sunday
3	15-Oct-18	Exercise
	16-Oct-18	Exercise.
	17-Oct-18	Test.
	18-Oct-18	Dussehra
	19-Oct-18	Wrenches ; Theorems
	20-Oct-18	Examples
	21-Oct-18	Sunday
4	22-Oct-18	Examples.
	23-Oct-18	Null lines & Null planes
	24-Oct-18	Maharishi Valmiki's Birthday
	25-Oct-18	Theorems
	26-Oct-18	Examples
	27-Oct-18	questions of Exercise.
	28-Oct-18	Sunday
5	29-Oct-18	stable, & unstable
	30-Oct-18	Neutral equilibrium
	31-Oct-18	questions

Lesson Plan

Date	Topics
1-Nov-18	Haryana Day
2-Nov-18	Examples
3-Nov-18	questions of Exercise.
4-Nov-18	Sunday
5-Nov-18	Test

पारंपरिक



13.07.2018 to 05.11.2018

Name of the Assistant/ Associate Professor... Parddeep KumarClass and Section: BA/ BSc TU

BM-351

Subject: Mathematics Paper code: Real Analysis

Week	Date	Topics
1	13-July-18	Admissions
	14-July-18	- do -
	15-July-18	Sunday
	16-July-18	Riemann Integral & questions.
	17-July-18	Darboux's Theorem;
	18-July-18	Integrability of Continuous and monotonic functions.
	19-July-18	Integrability of odd and unbounded functions and its questions.
2	20-July-18	Integral as a limit of sums
	21-July-18	Integral as a limit of sums
	22-July-18	Sunday
	23-July-18	Theorems related with the definition
	24-July-18	questions related to the definition.
	25-July-18	Properties of Riemann integral
	26-July-18	Theorems related to sum, difference, product; division of Riemann functions.
3	27-July-18	product; division of Riemann functions.
	28-July-18	Test
	29-July-18	Sunday
	30-July-18	Revision of the topic
	31-July-18	Shaheed Udham Singh's Martyrdom Day

Lesson Plan

Week	Date	Topics
1	01-Aug-18	The fundamental Theorems of Integral Calculus
	02-Aug-18	Theorems on Continuity & differentiability
	03-Aug-18	of single functions; Primitive Functions
	04-Aug-18	Mean Value Theorem; Examples
2	05-Aug-18	Sunday
	06-Aug-18	Questions of exercise.
	✓07-Aug-18	Test - 2.
	08-Aug-18	Improper integral; Types of
	09-Aug-18	improper integral; Evaluation of improper integral
	10-Aug-18	Comparison of Tests for convergence
	11-Aug-18	of improper integral of first kind
3	12-Aug-18	Sunday
	13-Aug-18	Two important Comparison integral
	14-Aug-18	Questions & Examples.
	15-Aug-18	Independence Day
	16-Aug-18	Questions.
	17-Aug-18	Cauchy's test for improper integral
	18-Aug-18	of first kind.
	4	19-Aug-18
20-Aug-18		Comparison tests for convergence
21-Aug-18		of improper integral of second kind.
22-Aug-18		Id-UI-Zuha
23-Aug-18		Examples or questions of exercise
24-Aug-18		-do-
25-Aug-18		Test - 3.
5		26-Aug-18
	27-Aug-18	Abel's test for convergence.
	28-Aug-18	Dirichlet's test for convergence.
	29-Aug-18	Examples & questions.
	30-Aug-18	-do-
	31-Aug-18	-do-

Lesson Plan

Week	Date	Topics
1	1-Sep-18	Fruelan's integral
	2-Sep-18	Sunday
	3-Sep-18	Janamshatmi
	✓ 4-Sep-18	Test - 4.
2	5-Sep-18	metric space; Definition
	6-Sep-18	Examples of metric space
	7-Sep-18	Examples of metric space
	8-Sep-18	Induced metric space & its example
	9-Sep-18	Sunday
	10-Sep-18	Open sphere; closed spheres
	11-Sep-18	Examples of open & closed spheres.
3	12-Sep-18	Interior pt; and nbd of a point
	13-Sep-18	Theorems of open & closed spheres
	14-Sep-18	A non empty subset G of X is open
	15-Sep-18	iff it is union of open spheres
	16-Sep-18	Sunday
	17-Sep-18	Union & intersection of open spheres
	18-Sep-18	The interior set of a m.s. is
4	19-Sep-18	the largest open set contained in
	20-Sep-18	A . More theorems.
	21-Sep-18	sequence in metric space.
	22-Sep-18	& its cgs. n.d.s.c for a
	23-Sep-18	Sunday/Haryana Heroes' Martyrdom Day
	24-Sep-18	point 'a' to be limit pt of m.s
	25-Sep-18	Cauchy sequence.
5	26-Sep-18	Complete metric space.
	27-Sep-18	Subsequence.
	28-Sep-18	Cantor's Intersections Theorem.
	29-Sep-18	Bayre's Category Theorem.
	✓ 30-Sep-18	Sunday

Lesson Plan

Week	Date	Topics
1	1-Oct-18	Test.
	2-Oct-18	Mahatma Gandhi Jayanti
	3-Oct-18	Continuous functions in metric
	4-Oct-18	Space.
	5-Oct-18	Theorems
	6-Oct-18	Theorems
	7-Oct-18	Sunday
2	8-Oct-18	Theorems.
	9-Oct-18	'Uniform Continuity' is Theorem
	10-Oct-18	Maharaja Agrasen Jyanti
	11-Oct-18	Related 'Uniform Continuity'
	12-Oct-18	Compactness in $m.s$
	13-Oct-18	Sequentially Compact $m.s$
	14-Oct-18	Sunday
3	15-Oct-18	Countably Compact space.
	16-Oct-18	Finite Intersection Property.
	17-Oct-18	n.a.s.c for $m.s$ to be Compact.
	18-Oct-18	Dussehra
	19-Oct-18	Connectedness in $m.s$.
	20-Oct-18	properties of separated sets.
	21-Oct-18	Sunday
4	22-Oct-18	Continuity is Connectedness
	23-Oct-18	Totally disconnected spaces.
	24-Oct-18	Maharishi Valmiki's Birthday
	25-Oct-18	Revision of unit $\rightarrow I$
	26-Oct-18	Revision of unit $\rightarrow II$
	27-Oct-18	Test of unit I & II
	28-Oct-18	Sunday
5	29-Oct-18	Revision of unit $\rightarrow III$
	30-Oct-18	Revision of unit $\rightarrow IV$
	31-Oct-18	Test of unit III & IV

Lesson Plan

Week	Date	Topics
1	1-Nov-18	Haryana Day
	2-Nov-18	Revision & Test
	3-Nov-18	Revision
	4-Nov-18	Sunday
	5-Nov-18	Revision.

13.07.2018 to 05.11.2018

Name of the Assistant/ Associate Professor... Subhash Singh.....Class and Section: B: com I A.....Subject: Mathematics..... Paper code: BC-105.....

Week	Date	Topics	
1	13-July-18	orientation and Hallowam	
	14-July-18	Definition of Log. with examples	
	15-July-18	Sunday	
	16-July-18	Product formula, Quotient formula and others	
	17-July-18	solved examples	
	18-July-18	solved examples	
	19-July-18	unsolved exercise	
	2	20-July-18	Types of logarithms
		21-July-18	solved examples
22-July-18		Sunday	
23-July-18		Log tables and its use	
24-July-18		solved examples	
25-July-18		unsolved exercise	
26-July-18		Finite, infinite series with examples	
3		27-July-18	unsolved exercise
	28-July-18	A-P series	
	29-July-18	Sunday	
	30-July-18	solved examples	
	31-July-18	Shaheed Udham Singh's Martyrdom Day	

Lesson Plan

Week	Date	Topics
1	01-Aug-18	unsolved exercise
	02-Aug-18	Sum to n terms of A.P with examples
	03-Aug-18	unsolved exercise
	04-Aug-18	solved examples
2	05-Aug-18	Sunday
	06-Aug-18	unsolved exercise
	07-Aug-18	A.M between two numbers and their sum
	08-Aug-18	solved examples
	09-Aug-18	G.P series with examples
	10-Aug-18	unsolved exercise
	11-Aug-18	Sum to n terms of G.P with examples
3	12-Aug-18	Sunday
	13-Aug-18	Geometric Mean with examples
	14-Aug-18	unsolved exercise
	15-Aug-18	Independence Day
	16-Aug-18	Derivative of a function with examples
	17-Aug-18	Derivative of x^n and $(ax+b)^n$
	18-Aug-18	solved examples
	4	19-Aug-18
20-Aug-18		Derivatives of sum, difference etc of two functions
21-Aug-18		examples
22-Aug-18		Id-UI-Zuha
23-Aug-18		Rules of differentiation
24-Aug-18		solved examples
25-Aug-18		unsolved exercise
5		26-Aug-18
	27-Aug-18	Definition of a matrix with examples.
	28-Aug-18	Algebra of matrices
	29-Aug-18	Sum and difference of matrices
	30-Aug-18	Different definitions of matrices
	31-Aug-18	examples.

Lesson Plan

Week	Date	Topics
1	1-Sep-18	Basic operations on matrices
	2-Sep-18	Sunday
	3-Sep-18	Janamshatmi
	4-Sep-18	Solved examples
2	5-Sep-18	Properties of matrix multiplication with examples
	6-Sep-18	Solved examples
	7-Sep-18	Unsolved exercise
	8-Sep-18	Transpose of a matrix and other definitions
	9-Sep-18	Sunday
	10-Sep-18	Symmetric and skew symmetric matrices
	11-Sep-18	Solved examples
	12-Sep-18	Unsolved exercise
3	13-Sep-18	Maxima and Minima :- Definition with examples
	14-Sep-18	Unsolved examples
	15-Sep-18	Second and Higher order Derivative test.
	16-Sep-18	Sunday
	17-Sep-18	Solved examples
	18-Sep-18	Problems with maxima and Minima
	19-Sep-18	Solved examples
4	20-Sep-18	Solved examples
	21-Sep-18	Unsolved exercise
	22-Sep-18	Functions related to Commerce
	23-Sep-18	Sunday/Haryana Heroes' Martyrdom Day
	24-Sep-18	Solved examples
	25-Sep-18	Unsolved exercise
	26-Sep-18	Determinants :- Definition with examples
5	27-Sep-18	Minors and co-factors
	28-Sep-18	Expansion of Determinants.
	29-Sep-18	Properties of Determinants
	30-Sep-18	Sunday

Lesson Plan

Week	Date	Topics
1	1-Oct-18	examples and exercise
	2-Oct-18	Mahatma Gandhi Jayanti
	3-Oct-18	Adjoint of a matrix with examples
	4-Oct-18	some solved examples
	5-Oct-18	inverse of a matrix by elementary operations
	6-Oct-18	some solved examples
	7-Oct-18	Sunday
2	8-Oct-18	solution of linear equations with examples
	9-Oct-18	unsolved exercise
	10-Oct-18	Maharaja Agrasen Jyanti
	11-Oct-18	Compound interest with examples
	12-Oct-18	solved examples
	13-Oct-18	solved examples
	14-Oct-18	Sunday
3	15-Oct-18	unsolved exercise
	16-Oct-18	unsolved exercise
	17-Oct-18	continuous compounding of interest
	18-Oct-18	Dussehra
	19-Oct-18	unsolved solved examples
	20-Oct-18	unsolved exercise
	21-Oct-18	Sunday
4	22-Oct-18	unsolved exercise
	23-Oct-18	Annuity: Definition and types
	24-Oct-18	Maharishi Valmiki's Birthday
	25-Oct-18	solved examples and exercise
	26-Oct-18	Present value with examples
	27-Oct-18	unsolved exercise
	28-Oct-18	Sunday
5	29-Oct-18	• Practical Problems related to Annuity
	30-Oct-18	solved examples
	31-Oct-18	solved examples

Lesson Plan

Week	Date	Topics
1	1-Nov-18	Haryana Day
	2-Nov-18	homework exercise
	3-Nov-18	class test
	4-Nov-18	Sunday
	5-Nov-18	class test.

13.07.2018 to 05.11.2018

Name of the Assistant/ Associate Professor... Subhash Singh

Class and Section: B.A./B.Sc. 1st Th. Sem.

Subject: Mathematics (Numerical Analysis) Paper code: B.M.-353

Week	Date	Topics
1	13-July-18	orientation and Homework.
	14-July-18	Introduction of Subject
	15-July-18	Sunday
	16-July-18	Finite difference operators and their relations
	17-July-18	Finding the missing terms and effect of error
	18-July-18	Interpolation with equal intervals
	19-July-18	Newton's forward interpolation formula
	20-July-18	Examples
2	21-July-18	Newton's Backward interpolation formula.
	22-July-18	Sunday
	23-July-18	Solved examples
	24-July-18	unsolved exercise
	25-July-18	interpolation with unequal intervals
	26-July-18	Newton's divided difference formula
	27-July-18	Solved examples
	28-July-18	Lagrange's interpolation formula.
3	29-July-18	Sunday
	30-July-18	Solved examples
	31-July-18	Shaheed Udham Singh's Martyrdom Day

Lesson Plan

Week	Date	Topics
1	01-Aug-18	Hermite formula
	02-Aug-18	solved examples
	03-Aug-18	unsolved exercise
	04-Aug-18	class test.
2	05-Aug-18	Sunday
	06-Aug-18	Central differences; Definition with examples
	07-Aug-18	Gauss Seaward interpolation formula
	08-Aug-18	solved examples
	09-Aug-18	Gauss Backward interpolation formula
	10-Aug-18	solved examples
	11-Aug-18	unsolved exercise
3	12-Aug-18	Sunday
	13-Aug-18	Stirling formula
	14-Aug-18	solved examples
	15-Aug-18	Independence Day
	16-Aug-18	Bessel Formula
	17-Aug-18	solved examples
	18-Aug-18	unsolved exercise
	4	19-Aug-18
20-Aug-18		Probability distribution of random variables
21-Aug-18		some examples
22-Aug-18		Id-UI-Zuha
23-Aug-18		Binomial distribution
24-Aug-18		solved examples
25-Aug-18		Poisson distribution
5	26-Aug-18	Sunday/Raksha Bandhan
	27-Aug-18	Normal distribution with examples
	28-Aug-18	Mean and variance with examples
	29-Aug-18	Fitting a Poisson distribution
	30-Aug-18	solved examples
	31-Aug-18	unsolved exercise

Lesson Plan

Week	Date	Topics
1	1-Sep-18	class test
	2-Sep-18	Sunday
	3-Sep-18	Janamshatmi
	4-Sep-18	Numerical Differentiation with examples
2	5-Sep-18	Derivatives using Forward Difference formula.
	6-Sep-18	Derivatives using Backward Difference formula.
	7-Sep-18	Derivatives of Stirling formula
	8-Sep-18	Derivatives of Bessel Bessel formula.
	9-Sep-18	Sunday
	10-Sep-18	Solved examples
	11-Sep-18	Unsolved exercise
3	12-Sep-18	Eigen value Problems; Definitions
	13-Sep-18	Power method with examples
	14-Sep-18	Jacobis method with examples
	15-Sep-18	Gauss method with examples
	16-Sep-18	Sunday
	17-Sep-18	House - Halder's method
	18-Sep-18	Solved examples
	19-Sep-18	Lanzos method
4	20-Sep-18	Solved examples
	21-Sep-18	Unsolved exercise
	22-Sep-18	class test
	23-Sep-18	Sunday/Haryana Heroes' Martyrdom Day
	24-Sep-18	Numerical integration - Introduction
	25-Sep-18	Newton-Cotes quadrature formula
	26-Sep-18	Trapezoidal Rule, Simpson's one third rule.
5	27-Sep-18	Simpson's True Eighth rule
	28-Sep-18	Boole's rule. Weddle's rule
	29-Sep-18	Solved examples
	30-Sep-18	Sunday

Lesson Plan

Week	Date	Topics
1	1-Oct-18	solved examples
	2-Oct-18	Mahatma Gandhi Jayanti
	3-Oct-18	Chebyshev's quadrature formula
	4-Oct-18	solved examples
	5-Oct-18	unsolved exercise
	6-Oct-18	class test
	7-Oct-18	Sunday
2	8-Oct-18	solution of differential equation; initial and Boundary
	9-Oct-18	Euler's method
	10-Oct-18	Maharaja Agrasen Jyanti
	11-Oct-18	solved examples
	12-Oct-18	modified Euler's method
	13-Oct-18	solved examples
	14-Oct-18	Sunday
	3	15-Oct-18
16-Oct-18		unsolved exercise
17-Oct-18		single step method, Taylor's series method
18-Oct-18		Dussehra
19-Oct-18		R-K-method
20-Oct-18		solved examples
21-Oct-18		Sunday
4	22-Oct-18	solved examples
	23-Oct-18	Picard's method
	24-Oct-18	Maharishi Valmiki's Birthday
	25-Oct-18	solved examples
	26-Oct-18	solved examples
	27-Oct-18	unsolved exercise
	28-Oct-18	Sunday
	5	29-Oct-18
30-Oct-18		solved examples
31-Oct-18		Adams - Bashforth method

Lesson Plan

Week	Date	Topics
1	1-Nov-18	Haryana Day
	2-Nov-18	solved examples
	3-Nov-18	unsolved exercise
	4-Nov-18	Sunday
	5-Nov-18	class test

13.07.2018 to 05.11.2018

Name of the Assistant/ Associate Professor..... Subhash Singh.....

Class and Section: B.A/B.Sc. 4th Sem.....

Subject: Mathematics (Groups and Rings) Paper code: B.M. 352.....

Week	Date	Topics
1	13-July-18	Howam and orientation
	14-July-18	Introduction of Subject
	15-July-18	Sunday
	16-July-18	Definition of group with examples.
	17-July-18	Properties of groups
	18-July-18	Examples of groups
	19-July-18	Some more examples of groups
2	20-July-18	1 st exercise
	21-July-18	Revision of 1 st exercise
	22-July-18	Sunday
	23-July-18	Integral Powers of an element
	24-July-18	General Properties of integral Powers
	25-July-18	Solved examples
	26-July-18	order of an element of group
3	27-July-18	Some theorems of order of an element.
	28-July-18	Examples
	29-July-18	Sunday
	30-July-18	Exercise 1-2
	31-July-18	Shaheed Udham Singh's Martyrdom Day

Lesson Plan

Week	Date	Topics
1	01-Aug-18	Revision of exercise 1.2
	02-Aug-18	Sub groups with examples
	03-Aug-18	Theorems
	04-Aug-18	Theorems.
2	05-Aug-18	Sunday
	06-Aug-18	Solved examples of Sub groups
	07-Aug-18	Exercise 1.3
	08-Aug-18	cyclic groups with examples
	09-Aug-18	Theorems of cyclic groups.
	10-Aug-18	Examples
	11-Aug-18	Exercise 1.4.
3	12-Aug-18	Sunday
	13-Aug-18	chapter 2 Cosets :- Definition with examples.
	14-Aug-18	Theorems
	15-Aug-18	Independence Day
	16-Aug-18	Solved examples
	17-Aug-18	Congruence relation of a subgroup in a group.
	18-Aug-18	Lagrange's Theorem and solved examples
	4	19-Aug-18
20-Aug-18		Normal Subgroups and Theorems.
21-Aug-18		Quotient group with Theorems and examples
22-Aug-18		Id-Ul-Zuha
23-Aug-18		Homomorphisms, isomorphisms etc. with Theorems
24-Aug-18		Kernel of homomorphism with theorems
25-Aug-18		Automorphisms and inner automorphisms with examples
5		26-Aug-18
	27-Aug-18	Theorems
	28-Aug-18	Theorems and examples.
	29-Aug-18	Centre of a group with Theorems.
	30-Aug-18	Examples and exercise.
	31-Aug-18	Normalizers of an element and Theorems.

Lesson Plan

Week	Date	Topics
1	1-Sep-18	Permutation of groups :- definition with examples
	2-Sep-18	Sunday
	3-Sep-18	Janamshatmi
	4-Sep-18	Caley Theorem with some other definitions
2	5-Sep-18	Definition and types of Rings with examples.
	6-Sep-18	Some solved examples.
	7-Sep-18	Integral domain, Division Rings and Theorems.
	8-Sep-18	Solved examples of Rings.
	9-Sep-18	Sunday
	10-Sep-18	Sub-ring and its Theorems.
	11-Sep-18	Centre of a ring with solved examples
3	12-Sep-18	characteristic of a ring and Theorems.
	13-Sep-18	Ideals :- Definition and Theorems.
	14-Sep-18	Product of two ideals and its Theorems.
	15-Sep-18	Principal ideal ring and Theorems
	16-Sep-18	Sunday
	17-Sep-18	simple ring, Principal ideal and Theorems
	18-Sep-18	maximal ideal, Prime ideal and Theorems
4	19-Sep-18	solved examples and exercise.
	20-Sep-18	Quotient Rings and Theorems.
	21-Sep-18	Definition of ring homomorphism with examples and Theorems
	22-Sep-18	Kernel of ring homomorphism with examples
	23-Sep-18	Sunday/Haryana Heroes' Martyrdom Day
	24-Sep-18	Theorems
	25-Sep-18	Fundamental theorem of homomorphism and converse
	26-Sep-18	Some other theorems of homomorphism
5	27-Sep-18	solved examples
	28-Sep-18	Embedding of Rings and Theorems
	29-Sep-18	solved examples and unsolved exercise
	30-Sep-18	Sunday

Lesson Plan

Week	Date	Topics
1	1-Oct-18	Euclidean Rings, and Theorems
	2-Oct-18	Mahatma Gandhi Jayanti
	3-Oct-18	Prime element, irreducible element and theorems
	4-Oct-18	G.C.D and L.C.M and Theorems
	5-Oct-18	Theorems of Euclidean and other ideals
	6-Oct-18	Solved examples.
	7-Oct-18	Sunday
2	8-Oct-18	Unsolved exercise.
	9-Oct-18	Polynomial Ring: Definition with examples
	10-Oct-18	Maharaja Agrasen Jyanti
	11-Oct-18	Polynomial ring over a ring, embedding of R into $R[x]$
	12-Oct-18	Polynomial over a field and Theorem.
	13-Oct-18	Some solved examples.
	14-Oct-18	Sunday
3	15-Oct-18	Theorems on Polynomials
	16-Oct-18	Some more theorems
	17-Oct-18	Unique Factorization domain and Theorems
	18-Oct-18	Dussehra
	19-Oct-18	Theorems of U.F.D.
	20-Oct-18	Some more theorems on U.F.D.
	21-Oct-18	Sunday
4	22-Oct-18	Gauss Lemma. and its converse.
	23-Oct-18	Some theorems on integral domains
	24-Oct-18	Maharishi Valmiki's Birthday
	25-Oct-18	Lemma on UFD and Primitive Polynomials
	26-Oct-18	Theorems
	27-Oct-18	Theorems
	28-Oct-18	Sunday
5	29-Oct-18	Solved examples of Polynomial Rings
	30-Oct-18	Solved examples
	31-Oct-18	Unsolved exercise

Lesson Plan

Week	Date	Topics
1	1-Nov-18	Haryana Day
	2-Nov-18	Revision and test
	3-Nov-18	Revision and test
	4-Nov-18	Sunday
	5-Nov-18	Revision and test.