

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN (SESSION 2019-20)

LESSON PLAN: 19 WEEK (JULY – NOV)

WEEK	DATE	CLASS : M.Sc. (P) Subject :- ADVANCED ABSTRACT ALGEBRA-1
1	16-Jul-19	HAWAN & INAUGURATION SESSION 2019-20
	17-Jul-19	TIME-TABLE DISPLAY & DISCUSSION
	18-Jul-19	ORIENTATION PROGRAMME & LIBRARY VISIT (SCIENCE)
	19-Jul-19	ORIENTATION PROGRAMME & LIBRARY VISIT (COMMERCE)
	20-Jul-19	ORIENTATION PROGRAMME & LIBRARY VISIT (ARTS)
	21-Jul-19	SUNDAY
2	22-Jul-19	Automorphism of groups
	23-Jul-19	Theorems on automorphism of group
	24-Jul-19	Theorems on automorphism of group
	25-Jul-19	Examples
	26-Jul-19	Problem discussion
	27-Jul-19	Test
	28-Jul-19	SUNDAY
3	29-Jul-19	Inner automorphisms of a group G.
	30-Jul-19	Theorems on inner automorphism of group
	31-Jul-19	SHAHEED UDHAM SINGH MARTYRDOM DAY
	1-Aug-19	Group Aut(G)
	2-Aug-19	Group Inn(G)
	3-Aug-19	HARIYALI TEEJ
	4-Aug-19	SUNDAY
4	5-Aug-19	Normalizer of subset of a group
	6-Aug-19	Theorems on normalizer
	7-Aug-19	Examples
	8-Aug-19	Centralizer of subset of a group
4	9-Aug-19	Theorems on centralizer
	10-Aug-19	Examples
	11-Aug-19	SUNDAY
5	12-Aug-19	ID-UL-ZUHA (BAKR-ID)
	13-Aug-19	Problem discussion
	14-Aug-19	Conjugate elements and conjugacy classes.
	15-Aug-19	INDEPENDENCE DAY / RAKSHA BANDHAN
	16-Aug-19	Theorems on conjugate elements
	17-Aug-19	Theorems on conjugacy class
	18-Aug-19	SUNDAY
6	19-Aug-19	Theorems on conjugacy class
	20-Aug-19	Theorems on conjugacy class
	21-Aug-19	Class equation of a finite group
	22-Aug-19	Class equation of a finite group
	23-Aug-19	Application of class equation
	24-Aug-19	JANAMASHTMI
	25-Aug-19	SUNDAY
7	26-Aug-19	Derived group
	27-Aug-19	Derived group
	28-Aug-19	Commutator subgroup
	29-Aug-19	Zassenhau's Lemma
	30-Aug-19	Normal and Composition series
	31-Aug-19	Theorems on normal series

	1-Sep-19	SUNDAY
8	2-Sep-19	Theorems on composition series
	3-Sep-19	Scheier's refinement theorem
	4-Sep-19	Jordan Holder theorem
	5-Sep-19	Jordan Holder theorem
8	6-Sep-19	Cauchy theorem for finite groups
	7-Sep-19	Cauchy theorem for finite groups
	8-Sep-19	SUNDAY
9	9-Sep-19	Sylow p-subgroups
	10-Sep-19	Sylow p-subgroups
	11-Sep-19	Sylow's 1st
	12-Sep-19	Sylow's 2nd theorem
	13-Sep-19	Sylow's 3rd theorem
	14-Sep-19	Characteristic of a ring with unity
	15-Sep-19	SUNDAY
10	16-Sep-19	Prime fields $\mathbb{Z}/p\mathbb{Z}$ and \mathbb{Q} .
	17-Sep-19	Field extensions
	18-Sep-19	Algebraic and transcendental elements
	19-Sep-19	Simple field extensions
	20-Sep-19	Polynomial of an algebraic element.
	21-Sep-19	Polynomial of an algebraic element.
	22-Sep-19	SUNDAY
11	23-Sep-19	SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY
	24-Sep-19	Conjugate elements
	25-Sep-19	Algebraic extensions
	26-Sep-19	Algebraic extensions
	27-Sep-19	Algebraic extensions
	28-Sep-19	Problem discussion
	29-Sep-19	SUNDAY (MAHARAJA AGRASEN JAYANTI)
12	30-Sep-19	Conditional test
	1-Oct-19	Finitely generated algebraic extensions
	2-Oct-19	MAHATMA GANDHI JAYANTI
	3-Oct-19	Finitely generated algebraic extensions
12	4-Oct-19	Algebraic closure
	5-Oct-19	Algebraic closure
	6-Oct-19	SUNDAY
13	7-Oct-19	Splitting fields
	8-Oct-19	DUSSEHRA
	9-Oct-19	Finite fields
	10-Oct-19	Normal extensions
	11-Oct-19	Normal extensions
	12-Oct-19	Examples of normal extension
	13-Oct-19	SUNDAY (MAHARISHI VALMIKI JAYANTI)
14	14-Oct-19	Separable elements
	15-Oct-19	Separable elements
	16-Oct-19	Separable polynomials
	17-Oct-19	KARVA CHAUGH
	18-Oct-19	Separable extensions
	19-Oct-19	primitive element

	20-Oct-19	SUNDAY
15	21-Oct-19	Perfect fields
	22-Oct-19	Perfect fields
	23-Oct-19	Problem discussion
	24-Oct-19	VACATION - I (DIWALI)
	25-Oct-19	VACATION - I (DIWALI)
	26-Oct-19	VACATION - I (DIWALI)
	27-Oct-19	SUNDAY (VACATION - I (DIWALI))
16	28-Oct-19	VACATION - I (DIWALI)
	29-Oct-19	VACATION - I (DIWALI)
	30-Oct-19	VACATION - I (DIWALI)
	31-Oct-19	Conditional test
16	1-Nov-19	HARYANA DAY
	2-Nov-19	Galois extensions
	3-Nov-19	SUNDAY
17	4-Nov-19	Galois extensions
	5-Nov-19	Galois extensions
	6-Nov-19	Dedekind lemma
	7-Nov-19	Frobenius automorphism
	8-Nov-19	Frobenius automorphism
	9-Nov-19	Klein's 4-group
	10-Nov-19	SUNDAY
18	11-Nov-19	Dihedral group
	12-Nov-19	Galois groups of polynomials
	13-Nov-19	Galois radical extensions
	14-Nov-19	Fundamental theorem of Algebra
	15-Nov-19	Solvable groups
	16-Nov-19	Derived series of a group G
	17-Nov-19	SUNDAY
19	18-Nov-19	Roots of unity Cyclotomic polynomials

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LESSON PLAN (SESSION 2019-20)

LESSON PLAN: 19 WEEK (JULY – NOV)

WEEK	DATE	CLASS :- M.Sc. (P) Subject :- Complex Analysis
1	16-Jul-19	HAWAN & INAUGURATION SESSION 2019-20
	17-Jul-19	TIME-TABLE DISPLAY & DISCUSSION
	18-Jul-19	ORIENTATION PROGRAMME & LIBRARY VISIT (SCIENCE)
	19-Jul-19	ORIENTATION PROGRAMME & LIBRARY VISIT (COMMERCE)
	20-Jul-19	ORIENTATION PROGRAMME & LIBRARY VISIT (ARTS)
	21-Jul-19	SUNDAY
2	22-Jul-19	Power series, radius of convergence
	23-Jul-19	Examples Based On Power Series
	24-Jul-19	Sum,product,diff of sum function of power series
	25-Jul-19	Sum,product,diff of sum function of power series
	26-Jul-19	Properties of a diff function with derivative zero
	27-Jul-19	Properties of a diff function with derivative zero
	28-Jul-19	SUNDAY
3	29-Jul-19	Problem discussion
	30-Jul-19	Expz And its Properties
	31-Jul-19	SHAHEED UDHAM SINGH MARTYRDOM DAY
	1-Aug-19	Logarithmic function
	2-Aug-19	Logarithmic function
	3-Aug-19	HARIYALI TEEJ
	4-Aug-19	SUNDAY
4	5-Aug-19	Power of a complex number
	6-Aug-19	Power of a complex number
	7-Aug-19	Definitions related to simple connected and multiple connected domains
	8-Aug-19	Def. related to contour,region,domain
4	9-Aug-19	Complex integration
	10-Aug-19	Cauchy-Goursat theorem
	11-Aug-19	SUNDAY
5	12-Aug-19	ID-UL-ZUHA (BAKR-ID)
	13-Aug-19	Cauchy thm for simply & multiply connected domain
	14-Aug-19	Cauchy thm for simply & multiply connected domain
	15-Aug-19	INDEPENDENCE DAY / RAKSHA BANDHAN
	16-Aug-19	Test
	17-Aug-19	Index or winding number of a closed curve
	18-Aug-19	SUNDAY
6	19-Aug-19	Cauchy integral formula
	20-Aug-19	Cauchy integral formula
	21-Aug-19	Extension of Cauchy integral formula
	22-Aug-19	Extension of Cauchy integral formula
	23-Aug-19	Higher order derivative of Cauchy integral formula
	24-Aug-19	JANAMASHTMI
	25-Aug-19	SUNDAY
7	26-Aug-19	Gauss mean value theorem
	27-Aug-19	Numericals on related theorms
	28-Aug-19	Numericals on related theorms
	29-Aug-19	Numericals on related theorms

	30-Aug-19	Morera's theorem
	31-Aug-19	Cauchy inequality
	1-Sep-19	SUNDAY
8	2-Sep-19	Zeros of an entire function, rad. of convergence
	3-Sep-19	Numericals on related topic
	4-Sep-19	Numericals on related topic
	5-Sep-19	Liouville's theorem
8	6-Sep-19	Fundamental theorem of algebra
	7-Sep-19	Taylor's theorem
	8-Sep-19	SUNDAY
9	9-Sep-19	Taylor's theorem
	10-Sep-19	Problem discussion
	11-Sep-19	Test
	12-Sep-19	Max. and min. modulus principle
	13-Sep-19	Max. and min. modulus principle
	14-Sep-19	Schwarz Lemma
	15-Sep-19	SUNDAY
10	16-Sep-19	Schwarz Lemma
	17-Sep-19	Singularity, classification, poles and zeros
	18-Sep-19	Numericals on related topic
	19-Sep-19	Numericals on related topic
	20-Sep-19	Numericals on related topic
	21-Sep-19	Laurent series
	22-Sep-19	SUNDAY
11	23-Sep-19	SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY
	24-Sep-19	Problem discussion
	25-Sep-19	Cassorati weierstrass theorem
	26-Sep-19	Cassorati weierstrass theorem
	27-Sep-19	The argument principle
	28-Sep-19	The argument principle
	29-Sep-19	SUNDAY (MAHARAJA AGRASEN JAYANTI)
12	30-Sep-19	Problem discussion
	1-Oct-19	Rouche's theorem (exp)
	2-Oct-19	MAHATMA GANDHI JAYANTI
	3-Oct-19	Numericals on related topic
12	4-Oct-19	Conditional Test
	5-Oct-19	Rouche's theorem
	6-Oct-19	SUNDAY
13	7-Oct-19	Exp based on Rouché's thm
	8-Oct-19	DUSSEHRA
	9-Oct-19	Exp based on Rouché's thm
	10-Oct-19	Inverse function theorem
	11-Oct-19	Inverse function theorem
	12-Oct-19	Test of inverse function theorem
	13-Oct-19	SUNDAY (MAHARISHI VALMIKI JAYANTI)
14	14-Oct-19	Residue...
	15-Oct-19	Numericals based on residue
	16-Oct-19	Numericals based on residue
	17-Oct-19	KARVA CHAUGH
	18-Oct-19	Numericals based on residue

	19-Oct-19	Numericals based on residue
	20-Oct-19	SUNDAY
15	21-Oct-19	Numericals based on residue
	22-Oct-19	Cauchy residue theorem
	23-Oct-19	Theorms based on residue
	24-Oct-19	VACATION -I (DIWALI)
	25-Oct-19	VACATION -I (DIWALI)
	26-Oct-19	VACATION -I (DIWALI)
	27-Oct-19	SUNDAY (VACATION - I (DIWALI))
16	28-Oct-19	VACATION -I (DIWALI)
	29-Oct-19	VACATION -I (DIWALI)
	30-Oct-19	VACATION -I (DIWALI)
	31-Oct-19	Test On residue
16	1-Nov-19	HARYANA DAY
	2-Nov-19	Problem discussion
	3-Nov-19	SUNDAY
17	4-Nov-19	Problem discussion
	5-Nov-19	Conditional Test
	6-Nov-19	Test discussion
	7-Nov-19	Cross ratio & its preservation under B.T
	8-Nov-19	Bilinear transformation
	9-Nov-19	Theorms based on bilinear transformation
	10-Nov-19	SUNDAY
18	11-Nov-19	Theorms based on bilinear transformation
	12-Nov-19	Flxed point bilinear transformation
	13-Nov-19	Flxed point bilinear transformation
	14-Nov-19	Flxed point bilinear transformation
	15-Nov-19	Conformal mapping
	16-Nov-19	Critical points
	17-Nov-19	SUNDAY
19	18-Nov-19	Problem discussion

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LESSON PLAN (SESSION 2019-20)

LESSON PLAN: 19 WEEK (JULY – NOV)

WEEK	DATE	CLASS :- M.Sc. (P) Subject :- Differential Equation-1
1	16-Jul-19	HAWAN & INAUGURATION SESSION 2019-20
	17-Jul-19	TIME-TABLE DISPLAY & DISCUSSION
	18-Jul-19	ORIENTATION PROGRAMME & LIBRARY VISIT (SCIENCE)
	19-Jul-19	ORIENTATION PROGRAMME & LIBRARY VISIT (COMMERCE)
	20-Jul-19	ORIENTATION PROGRAMME & LIBRARY VISIT (ARTS)
	21-Jul-19	SUNDAY
2	22-Jul-19	Preliminaries
	23-Jul-19	ϵ -approximate Solution
	24-Jul-19	Equicontinuous set of Functions
	25-Jul-19	Ascoli-Arzelà theorem
	26-Jul-19	Ascoli-Arzelà theorem
	27-Jul-19	Cauchy-Peano existence theorem
	28-Jul-19	SUNDAY
3	29-Jul-19	Differential inequalities and Uniqueness
	30-Jul-19	Differential inequalities and Uniqueness
	31-Jul-19	SHAHED UDHAM SINGH MARTYRDOM DAY
	1-Aug-19	Gronwall's Inequality
	2-Aug-19	Gronwall's Inequality
	3-Aug-19	HARIYALI TEEJ
	4-Aug-19	SUNDAY
4	5-Aug-19	Gronwall's Inequality
	6-Aug-19	Maximal interval of existence
	7-Aug-19	Extension theorem
	8-Aug-19	Extension theorem
4	9-Aug-19	Kneser's theorem
	10-Aug-19	Kneser's theorem
	11-Aug-19	SUNDAY
5	12-Aug-19	ID-UL-ZUHA (BAKR-ID)
	13-Aug-19	Kneser's theorem
	14-Aug-19	Revision
	15-Aug-19	INDEPENDENCE DAY / RAKSHA BANDHAN
	16-Aug-19	Linear Differential Systems
	17-Aug-19	Linear Homogeneous Systems
	18-Aug-19	SUNDAY
6	19-Aug-19	Fundamental Matrix
	20-Aug-19	Fundamental Matrix
	21-Aug-19	Augmented Systems
	22-Aug-19	Augmented Systems
	23-Aug-19	Reduction to Smaller Homo. Systems
	24-Aug-19	JANMASHTMI
	25-Aug-19	SUNDAY
7	26-Aug-19	Reduction to Smaller Homo. Systems
	27-Aug-19	Non Homogeneous Systems
	28-Aug-19	Non Homogeneous Systems
	29-Aug-19	Variations of Coefficients

	30-Aug-19	Variations of Coefficients
	31-Aug-19	Linear Systems with Constant Coefficients
	1-Sep-19	SUNDAY
8	2-Sep-19	Linear Systems with Constant Coefficients
	3-Sep-19	Linear Systems with Constant Coefficients
	4-Sep-19	Linear Systems with Constant Coefficients
	5-Sep-19	Linear Systems With Periodic Coefficients
8	6-Sep-19	Linear Systems With Periodic Coefficients
	7-Sep-19	Floquet theory
	8-Sep-19	SUNDAY
9	9-Sep-19	Floquet theory
	10-Sep-19	Floquet theory
	11-Sep-19	Floquet theory
	12-Sep-19	Revision
	13-Sep-19	L.D.E. of order n
	14-Sep-19	Linear combinations
	15-Sep-19	SUNDAY
10	16-Sep-19	Linear dependence and independence
	17-Sep-19	Wronskian theory
	18-Sep-19	Conditions for L.I. and L.D. of sol. Of HLDE
	19-Sep-19	Conditions for L.I. and L.D. of sol. Of HLDE
	20-Sep-19	Abel's Identity
	21-Sep-19	Fundamental set
	22-Sep-19	SUNDAY
11	23-Sep-19	SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY
	24-Sep-19	Reduction of Order
	25-Sep-19	Variations of parameters
	26-Sep-19	Adjoint Equations
	27-Sep-19	Adjoint Equations
	28-Sep-19	Adjoint Equations
	29-Sep-19	SUNDAY (MAHARAJA AGRASEN JAYANTI)
12	30-Sep-19	Lagrange's Identity
	1-Oct-19	Lagrange's Identity
	2-Oct-19	MAHATMA GANDHI JAYANTI
	3-Oct-19	Lagrange's Identity
12	4-Oct-19	Revision
	5-Oct-19	Conditonal Test
	6-Oct-19	SUNDAY
13	7-Oct-19	Lagrange's Identity
	8-Oct-19	DUSSEHRA
	9-Oct-19	Green's Formula
	10-Oct-19	L.E. with constant coefficients
	11-Oct-19	L.E. with constant coefficients
	12-Oct-19	Maximal and Minimal Solutions
	13-Oct-19	SUNDAY (MAHARISHI VALMIKI JAYANTI)
14	14-Oct-19	Maximal and Minimal Solutions
	15-Oct-19	Differential Inequilities
	16-Oct-19	Differential Inequilities
	17-Oct-19	KARVA CHAUGH
	18-Oct-19	Wintner's Theorem

	19-Oct-19	Wintner's Theorem
	20-Oct-19	SUNDAY
15	21-Oct-19	Wintner's Theorem
	22-Oct-19	Nagumo's Theorem
	23-Oct-19	Nagumo's Theorem
	24-Oct-19	VACATION -I (DIWALI)
	25-Oct-19	VACATION -I (DIWALI)
	26-Oct-19	VACATION -I (DIWALI)
	27-Oct-19	SUNDAY (VACATION - I (DIWALI))
16	28-Oct-19	VACATION -I (DIWALI)
	29-Oct-19	VACATION -I (DIWALI)
	30-Oct-19	VACATION -I (DIWALI)
	31-Oct-19	Nagumo's Theorem
16	1-Nov-19	HARYANA DAY
	2-Nov-19	Nagumo's Theorem
	3-Nov-19	SUNDAY
17	4-Nov-19	Revision
	5-Nov-19	Doubts
	6-Nov-19	Conditional Test
	7-Nov-19	Osgood Theorem
	8-Nov-19	Osgood Theorem
	9-Nov-19	Osgood Theorem
	10-Nov-19	SUNDAY
18	11-Nov-19	Kamke's theorem
	12-Nov-19	Kamke's theorem
	13-Nov-19	Kamke's theorem
	14-Nov-19	PROBLEM DISCUSSION
	15-Nov-19	Dependence of Soln. on Initial conditions
	16-Nov-19	Dependence of Soln. on Initial conditions
	17-Nov-19	SUNDAY
19	18-Nov-19	System of Differential Equations

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LESSON PLAN (SESSION 2019-20)

LESSON PLAN: 19 WEEK (JULY – NOV)

WEEK	DATE	CLASS:- M.Sc. (P) Subject :- REAL ANALYSIS-1
1	16-Jul-19	HAWAN & INAUGURATION SESSION 2019-20
	17-Jul-19	TIME-TABLE DISPLAY & DISCUSSION
	18-Jul-19	ORIENTATION PROGRAMME & LIBRARY VISIT (SCIENCE)
	19-Jul-19	ORIENTATION PROGRAMME & LIBRARY VISIT (COMMERCE)
	20-Jul-19	ORIENTATION PROGRAMME & LIBRARY VISIT (ARTS)
	21-Jul-19	SUNDAY
2	22-Jul-19	Riemann Stieltjes Integral
	23-Jul-19	Riemann Stieltjes Integral
	24-Jul-19	Riemann Stieltjes Integral
	25-Jul-19	Riemann Stieltjes Integral
	26-Jul-19	Riemann Stieltjes Integral
	27-Jul-19	Properties of The Integral
	28-Jul-19	SUNDAY
3	29-Jul-19	Properties of The Integral
	30-Jul-19	Properties of The Integral
	31-Jul-19	SHAHEED UDHAM SINGH MARTYRDOM DAY
	1-Aug-19	Properties of The Integral
	2-Aug-19	Integration and Differentiation
	3-Aug-19	HARIYALI TEEJ
	4-Aug-19	SUNDAY
4	5-Aug-19	Integration and Differentiation
	6-Aug-19	Fundamental Theorem of Calculus
	7-Aug-19	Fundamental Theorem of Calculus
	8-Aug-19	Integration By Parts
4	9-Aug-19	Integration By Parts
	10-Aug-19	Integration of Vector Valued Functions
	11-Aug-19	SUNDAY
5	12-Aug-19	ID-UL-ZUHA (BAKR-ID)
	13-Aug-19	Integration of Vector Valued Functions
	14-Aug-19	Integration of Vector Valued Functions
	15-Aug-19	INDEPENDENCE DAY / RAKSHA BANDHAN
	16-Aug-19	Rectifiable curves
	17-Aug-19	Rectifiable curves
	18-Aug-19	SUNDAY
6	19-Aug-19	Test
	20-Aug-19	Pointwise And Uniform Convergence
	21-Aug-19	Pointwise And Uniform Convergence
	22-Aug-19	Cauchy's Criterion for Uniform Convergence
	23-Aug-19	Weirstrass M-Test
	24-Aug-19	JANAMASHTMI
	25-Aug-19	SUNDAY
7	26-Aug-19	Weirstrass M-Test
	27-Aug-19	Abel's Test and Dirichlet's Test
	28-Aug-19	Abel's Test and Dirichlet's Test
	29-Aug-19	Uniform Convergence and Continuity

	30-Aug-19	U.C. and Riemann Stieltjes Integration
	31-Aug-19	U.C. and Riemann Stieltjes Integration
	1-Sep-19	SUNDAY
8	2-Sep-19	U.C. and Riemann Stieltjes Integration
	3-Sep-19	U.C. and Differentiation
	4-Sep-19	U.C. and Differentiation
	5-Sep-19	Existance of Real Valued Nowhere Diff. Function
8	6-Sep-19	Test
	7-Sep-19	Equicontinuous Family of Functions
	8-Sep-19	SUNDAY
9	9-Sep-19	Equicontinuous Family of Functions
	10-Sep-19	Weierstrass Approximation Theorem
	11-Sep-19	Weierstrass Approximation Theorem
	12-Sep-19	Weierstrass Approximation Theorem
	13-Sep-19	Weierstrass Approximation Theorem
	14-Sep-19	Test
	15-Sep-19	SUNDAY
10	16-Sep-19	Functions Of Several Variables
	17-Sep-19	Functions Of Several Variables
	18-Sep-19	Functions Of Several Variables
	19-Sep-19	Functions Of Several Variables
	20-Sep-19	Derivative in an Open Subset of R^n
	21-Sep-19	Derivative in an Open Subset of R^n
	22-Sep-19	SUNDAY
11	23-Sep-19	SHAHEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY
	24-Sep-19	Chain Rule
	25-Sep-19	Partial Derivatives
	26-Sep-19	Directional Derivatives
	27-Sep-19	Directional Derivatives
	28-Sep-19	Directional Derivatives
	29-Sep-19	SUNDAY (MAHARAJA AGRASEN JAYANTI)
12	30-Sep-19	Revision
	1-Oct-19	conditional TEST
	2-Oct-19	MAHATMA GANDHI JAYANTI
	3-Oct-19	Inverse function theorem
12	4-Oct-19	Inverse function theorem
	5-Oct-19	Contraction Principle
	6-Oct-19	SUNDAY
13	7-Oct-19	Contraction Principle
	8-Oct-19	DUSSEHRA
	9-Oct-19	Implicit Function Theorem
	10-Oct-19	Jacobians
	11-Oct-19	Extremum Problem With Constraints
	12-Oct-19	Lagrange's Multiplier Method
	13-Oct-19	SUNDAY (MAHARISHI VALMIKI JAYANTI)
14	14-Oct-19	Lagrange's Multiplier Method
	15-Oct-19	Lagrange's Multiplier Method
	16-Oct-19	Derivatives of Higher Order
	17-Oct-19	KARVA CHAUGH
	18-Oct-19	Mean Value Theorem

	19-Oct-19	Mean Value Theorem
	20-Oct-19	SUNDAY
15	21-Oct-19	Interchange of Order of Differentiation
	22-Oct-19	Interchange of Order of Differentiation
	23-Oct-19	Interchange of Order of Differentiation
	24-Oct-19	VACATION -I (DIWALI)
	25-Oct-19	VACATION -I (DIWALI)
	26-Oct-19	VACATION -I (DIWALI)
	27-Oct-19	SUNDAY (VACATION - I (DIWALI))
16	28-Oct-19	VACATION -I (DIWALI)
	29-Oct-19	VACATION -I (DIWALI)
	30-Oct-19	VACATION -I (DIWALI)
	31-Oct-19	revision
16	1-Nov-19	HARYANA DAY
	2-Nov-19	conditional TEST
	3-Nov-19	SUNDAY
17	4-Nov-19	Differentiation of Integrals
	5-Nov-19	Differentiation of Integrals
	6-Nov-19	Differentiation of Integrals
	7-Nov-19	Power Series
	8-Nov-19	Uniqueness Theorem for Power Series
	9-Nov-19	Differentiation of Integrals
	10-Nov-19	SUNDAY
18	11-Nov-19	Abel's And Tauber's Theorem
	12-Nov-19	Abel's And Tauber's Theorem
	13-Nov-19	Abel's And Tauber's Theorem
	14-Nov-19	Taylor's Theorem
	15-Nov-19	Exponential and Logarithm Functions
	16-Nov-19	Fourier Series
	17-Nov-19	SUNDAY
19	18-Nov-19	Gamma Function

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN (SESSION 2019-20)

LESSON PLAN: 19 WEEK (JULY – NOV)

WEEK	DATE	CLASS: M.Sc. (P)	SUBJECT: Topology
1	16-Jul-19	HAWAN & INAUGURATION SESSION 2019-20	
	17-Jul-19	TIME-TABLE DISPLAY & DISCUSSION	
	18-Jul-19	ORIENTATION PROGRAMME & LIBRARY VISIT (SCIENCE)	
	19-Jul-19	ORIENTATION PROGRAMME & LIBRARY VISIT (COMMERCE)	
	20-Jul-19	ORIENTATION PROGRAMME & LIBRARY VISIT (ARTS)	
	21-Jul-19	SUNDAY	
2	22-Jul-19	Definition of topology, indiscrete topology, discrete topology	
	23-Jul-19	Cofinite, cocountable topology	
	24-Jul-19	Usual topology, comparison of topologies	
	25-Jul-19	Intersection and union of topologies	
	26-Jul-19	Definition of neighbourhood, neighbourhood system and properties	
	27-Jul-19	Closed set, intersection and union of closed sets	
	28-Jul-19	SUNDAY	
3	29-Jul-19	Interior point, interior set and properties of interior set	
	30-Jul-19	Limit point, derived set and some properties	
	31-Jul-19	SHAHEED UDHAM SINGH MARTYRDOM DAY	
	1-Aug-19	Closure point, closure set	
	2-Aug-19	Relation between interior and closure	
	3-Aug-19	HARIYALI TEEJ	
	4-Aug-19	SUNDAY	
4	5-Aug-19	Dense sets and their characterization	
	6-Aug-19	Separable spaces	
	7-Aug-19	Boundary of a set and relation between interior, closure, boundary	
	8-Aug-19	Base for neighbourhood system	
4	9-Aug-19	Base for topological space	
	10-Aug-19	Characterization of topological space in terms of closed sets	
	11-Aug-19	SUNDAY	
5	12-Aug-19	ID-UL-ZUHA (BAKR-ID)	
	13-Aug-19	Test	
	14-Aug-19	Characterization of topological space in terms of interior operators	
	15-Aug-19	INDEPENDENCE DAY / RAKSHA BANDHAN	
	16-Aug-19	Characterization of topological space in terms of neighbourhoods	
	17-Aug-19	Characterization of topological space in terms of closure operator	
	18-Aug-19	SUNDAY	
6	19-Aug-19	Induced topology	
	20-Aug-19	Results related to induced topology	
	21-Aug-19	First and second countable space	
	22-Aug-19	Lindelof theorem	
	23-Aug-19	Continuity in topological space	
	24-Aug-19	JANAMASHTMI	
	25-Aug-19	SUNDAY	
7	26-Aug-19	Continuity with regard to a subspace	
	27-Aug-19	Inclusion, restriction, open, closed maps and examples	
	28-Aug-19	Homeomorphism, homeomorphic spaces	
	29-Aug-19	Product topology	
	30-Aug-19	Projection maps	

	31-Aug-19	T0,T1 spaces and their hereditary properties
	1-Sep-19	SUNDAY
8	2-Sep-19	T2,T3 and regular space
	3-Sep-19	Continuity,openness,closedness
	4-Sep-19	Definition and examples of filters
	5-Sep-19	Partial order relation,partially ordered set
8	6-Sep-19	Ultra filter and its characterization
	7-Sep-19	Finite intersection property
	8-Sep-19	SUNDAY
9	9-Sep-19	Intersection of filters
	10-Sep-19	Image of filter and ultra filter under a function
	11-Sep-19	Ultra filter principle
	12-Sep-19	Base of filter and freschet filter
	13-Sep-19	Limit point of a filter,sequence convergence in topological space
	14-Sep-19	Convergence of filter
	15-Sep-19	SUNDAY
10	16-Sep-19	Continuity in terms of convergence of filters
	17-Sep-19	Definition:open cover,compact space and examples
	18-Sep-19	Non-compact space and examples
	19-Sep-19	Reducibility of cover
	20-Sep-19	Definition:compact subspace and examples
	21-Sep-19	Compactness in terms of FIP
	22-Sep-19	SUNDAY
11	23-Sep-19	SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY
	24-Sep-19	Continuity and compact sets
	25-Sep-19	Finite and arbitrary union of compact sets
	26-Sep-19	Compactness and separation properties
	27-Sep-19	Closedness of compact subset
	28-Sep-19	Closedness of continuous map between compact and T2 space
	29-Sep-19	SUNDAY (MAHARAJA AGRASEN JAYANTI)
12	30-Sep-19	Consequences of closeness of continuous map
	1-Oct-19	Characterization of compactness in terms of filters
	2-Oct-19	MAHATMA GANDHI JAYANTI
	3-Oct-19	Conditional test
12	4-Oct-19	Compactness and filter convergence
	5-Oct-19	Tychonoff theorem
	6-Oct-19	SUNDAY
13	7-Oct-19	Convergence of filter in a product space
	8-Oct-19	DUSSEHRA
	9-Oct-19	Completely regular space and some examples
	10-Oct-19	Definition and examples of tychnoff space
	11-Oct-19	Hereditary properties of CR space
	12-Oct-19	Hereditary properties of Tychonoff space
	13-Oct-19	SUNDAY (MAHARISHI VALMIKI JAYANTI)
14	14-Oct-19	Normal space
	15-Oct-19	Problem discussion
	16-Oct-19	Test
	17-Oct-19	KARVA CHAUGH
	18-Oct-19	Hereditary properties of normal space
	19-Oct-19	T4 space:definition and examples

	20-Oct-19	SUNDAY
15	21-Oct-19	Hereditary properties of T4 space
	22-Oct-19	Urysohn's lemma
	23-Oct-19	Urysohn's lemma
	24-Oct-19	VACATION -I (DIWALI)
	25-Oct-19	VACATION -I (DIWALI)
	26-Oct-19	VACATION -I (DIWALI)
	27-Oct-19	SUNDAY (VACATION - I (DIWALI))
16	28-Oct-19	VACATION -I (DIWALI)
	29-Oct-19	VACATION -I (DIWALI)
	30-Oct-19	VACATION -I (DIWALI)
	31-Oct-19	Hausdorffness and filter convergence
16	1-Nov-19	HARYANA DAY
	2-Nov-19	Problem discussion
	3-Nov-19	SUNDAY
17	4-Nov-19	Conditional test
	5-Nov-19	Tietze's extension theorem
	6-Nov-19	Infimum and supremum of a collection of topologies on a set
	7-Nov-19	Collection of topologies on a set as a complete lattice
	8-Nov-19	Quotient topology
	9-Nov-19	Quotient topology
	10-Nov-19	SUNDAY
18	11-Nov-19	Problem discussion
	12-Nov-19	Embedding lemma
	13-Nov-19	Embedding theorem
	14-Nov-19	Stone-cech compactification
	15-Nov-19	Stone-cech compactification
	16-Nov-19	Problem discussion
	17-Nov-19	SUNDAY
19	18-Nov-19	Problem discussion