LESSON PLAN (SESSION 2019-20)

LESSON PLAN: 19 WEEK (JULY – NOV)

WEEK	DATE	CLASS: M.Sc. (F) Subject: Algebraic Coding Theory
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:block codes,distance function,weight function
	23-Jul-19	Minimum distance of a code and related questions
	24-Jul-19	Relation between minimum distance and minimum weight
	25-Jul-19	Detected and undetected error
	26-Jul-19	Decoding principle of maximum likelihood
	27-Jul-19	Binary error detecting codes
	28-Jul-19	**SUNDAY**
3	29-Jul-19	Binary error correcting codes
	30-Jul-19	Group codes
	31-Jul-19	**SHAHEED UDHAM SINGH MARTYRDOM DAY**
	1-Aug-19	Generator matrix definition and questions
	2-Aug-19	Coset leader definition and decoding by coset leader
	3-Aug-19	**HARIYALI TEEJ**
	4-Aug-19	**SUNDAY**
4	5-Aug-19	Parity check matrix, encoding and decoding function
	6-Aug-19	Questions of error detection and correction
	7-Aug-19	Construction of binary codes
	8-Aug-19	Double and triple repetition code
4	9-Aug-19	Dual codes
	10-Aug-19	Hamming Codes
	11-Aug-19	**SUNDAY**
5	12-Aug-19	**ID-UL-ZUHA (BAKR-ID)**
	13-Aug-19	Test
	14-Aug-19	Questions related to hamming codes
	15-Aug-19	**INDEPENDENCE DAY / RAKSHA BANDHAN**
	16-Aug-19	Polynomial codes
	17-Aug-19	Some results related to polynomial codes
	18-Aug-19	**SUNDAY**
6	19-Aug-19	Exponent of a polynomial
	20-Aug-19	Results related to exponent of polynomial
	21-Aug-19	Question of finding minimum distance of code
	22-Aug-19	Relation between generator and parity matrix
	23-Aug-19	Finite fields definition and some results
	24-Aug-19	**JANAMASHTMI**
	25-Aug-19	**SUNDAY**
7	26-Aug-19	Construction of finite fields
	27-Aug-19	Primitive element of finite fields
	28-Aug-19	irreducibility of polynomials over finite fields
	29-Aug-19	Primitive polynomials over finite fields
	30-Aug-19	Irreducible polynomials over finite fields

	31-Aug-19	Automorphism group of Galois field
	1-Sep-19	**SUNDAY**
8	2-Sep-19	Construction of finite field
	3-Sep-19	Normal basis ,artin's lemma
	4-Sep-19	Normal basis theorem
	5-Sep-19	Roots and primitive roots of unity
8	6-Sep-19	Number of irreducible polynomial over finite field
	7-Sep-19	Order of irreducible polynomial
	8-Sep-19	**SUNDAY**
9	9-Sep-19	Test
	10-Sep-19	Cyclotomic polynomials and some results
	11-Sep-19	Generator polynomial of a BCH Code
	12-Sep-19	Construction of BCH Codes over finite fields
	13-Sep-19	Related questions
	14-Sep-19	Related questions
	15-Sep-19	**SUNDAY**
10	16-Sep-19	Linear Codes
	17-Sep-19	Generator matrices of linear codes
	18-Sep-19	Self orthogonality of binary and ternary vectors
	19-Sep-19	Dual code of a linear code
	20-Sep-19	Equivqlent codes and permutation matrices
	21-Sep-19	Related questions
	22-Sep-19	**SUNDAY**
11	23-Sep-19	**SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY**
	24-Sep-19	Self dual code
	25-Sep-19	Construction of binary and ternary self dual code
	26-Sep-19	Weight distribution of a linear code
	27-Sep-19	Weight enumerator of a linear code
	28-Sep-19	MDS codes
	29-Sep-19	**SUNDAY (MAHARAJA AGRASEN JAYANTI)**
12	30-Sep-19	Examples of MDS Codes
	1-Oct-19	Characterisation of MDS codes in terms of Generator matrix
	2-Oct-19	**MAHATMA GANDHI JAYANTI**
	3-Oct-19	Characterisation of MDS codes in terms of Parity check matrix
12	4-Oct-19	Conditional test
	5-Oct-19	Dual code of MDS code
	6-Oct-19	**SUNDAY**
13	7-Oct-19	Trivial MDS code
	8-Oct-19	**DUSSEHRA**
	9-Oct-19	Weight distribution of a MDS code
	10-Oct-19	No. of codewords of minimum distance in MDS CODE
	11-Oct-19	Reed solomon code
	12-Oct-19	Related questions
	13-Oct-19	**SUNDAY (MAHARISHI VALMIKI JAYANTI)**
14	14-Oct-19	Related questions
	15-Oct-19	Hadamard transform
	16-Oct-19	Macwilliams identity
	17-Oct-19	**KARVA CHAUTH**
	18-Oct-19	Hadamard matrices
	19-Oct-19	Existence of a hadamard matrix of order n

	20-Oct-19	**SUNDAY**
15	21-Oct-19	Related questions
	22-Oct-19	Hadamard codes
	23-Oct-19	Cyclic codes and their construction
	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	Related questions
16	1-Nov-19	**HARYANA DAY**
	2-Nov-19	Generator polynomial
	3-Nov-19	**SUNDAY**
17	4-Nov-19	Problem discussion
	5-Nov-19	Conditional test
	6-Nov-19	Check polynomial
	7-Nov-19	Check polynomial
	8-Nov-19	Check polynomial
	9-Nov-19	Equivalent and dual code
	10-Nov-19	**SUNDAY**
18	11-Nov-19	Equivalent and dual code
	12-Nov-19	Test
	13-Nov-19	Hamming and BCH code
	14-Nov-19	Hamming and BCH code
	15-Nov-19	Gilbert-varsha move bound
	16-Nov-19	plotkin bound
	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. (F) Subject:- Analytical Mechanics & Calculus Of Variation
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	Introduction
	23-Jul-19	Euler's Theorm And Its Particular Cases
	24-Jul-19	Euler's Theorm And Its Particular Cases
	25-Jul-19	Euler's Theorm And Its Particular Cases
	26-Jul-19	Numericals Based On Euler Theorm
	27-Jul-19	Numericals Based On Euler Theorm
	28-Jul-19	**SUNDAY**
3	29-Jul-19	Shortest Distance Problem
	30-Jul-19	Minimum Surface of Revolution
	31-Jul-19	**SHAHEED UDHAM SINGH MARTYRDOM DAY**
	1-Aug-19	Brachistochrone Problem
	2-Aug-19	Brachistochrone Problem
	3-Aug-19	**HARIYALI TEEJ**
	4-Aug-19	**SUNDAY**
4	5-Aug-19	Isoperimetric Problem
	6-Aug-19	Isoperimetric Problem
	7-Aug-19	Geodesics
	8-Aug-19	Geodesics
4	9-Aug-19	Geodesics
	10-Aug-19	Fundamental Lemma of Cal. of Variation
	11-Aug-19	**SUNDAY**
5	12-Aug-19	**ID-UL-ZUHA (BAKR-ID)**
	13-Aug-19	Generalisation of Euler Eqn To n Dependent Functions
	14-Aug-19	Functional Dep on Higher Order Derivatives
	15-Aug-19	**INDEPENDENCE DAY / RAKSHA BANDHAN**
	16-Aug-19	Numericals
	17-Aug-19	Natural Boundary and Transition Conditions
	18-Aug-19	**SUNDAY**
6	19-Aug-19	Natural Boundary and Transition Conditions
	20-Aug-19	Numericals to Find Extremum
	21-Aug-19	Numericals to Find Extremum
	22-Aug-19	Variational Derivative & Variable End Point
	23-Aug-19	Test
	24-Aug-19	**JANAMASHTMI**
	25-Aug-19	**SUNDAY**
7	26-Aug-19	Generalized Coordinates,Velocity
	27-Aug-19	Generalized Displacement,Force,Potential
	28-Aug-19	Generalized Displacement,Force,Potential
	29-Aug-19	Holonomic and Non-Holonomic Systems

	30-Aug-19	Possible And Virtual Displacements
	31-Aug-19	Lagrange's Equations of First Kind
	1-Sep-19	**SUNDAY**
8	2-Sep-19	Lagrange's Equations of Second Kind
	3-Sep-19	Lagrange's Equations of Second Kind
	4-Sep-19	Uniqueness of Solution
	5-Sep-19	Theorem on variation of total Energy
8	6-Sep-19	Theorem on variation of total Energy
	7-Sep-19	Potential, Gyroscopic and DIssipative Forces
	8-Sep-19	**SUNDAY**
9	9-Sep-19	Lagrange's Eqn For Conservative Fields
	10-Sep-19	Lagrange's Eqn For Conservative Fields
	11-Sep-19	Test
	12-Sep-19	Hamilton's Variables
	13-Sep-19	Donkin's Theorem
	14-Sep-19	Hamilton Canonical Equations
	15-Sep-19	**SUNDAY**
10	16-Sep-19	Hamilton Canonical Equations
	17-Sep-19	Routh's Equations
	18-Sep-19	Cyclic Coordinates Poisson's Bracket
	19-Sep-19	Cyclic coordinates Poisson's Bracket
	20-Sep-19	Poisson's Identity
	21-Sep-19	Poisson's Identity
	22-Sep-19	**SUNDAY**
11	23-Sep-19	**SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY**
	24-Sep-19	Hamilton's Principle
	25-Sep-19	Hamilton's Principle
	26-Sep-19	Poincare-Carton Integral Invariant
	27-Sep-19	Poincare-Carton Integral Invariant
	28-Sep-19	Poincare-Carton Integral Invariant
	29-Sep-19	**SUNDAY (MAHARAJA AGRASEN JAYANTI)**
12	30-Sep-19	Poincare-Carton Integral Invariant
	1-Oct-19	Conditional Test
	2-Oct-19	**MAHATMA GANDHI JAYANTI**
	3-Oct-19	Whitkar Equation
12	4-Oct-19	Whitkar Equation
	5-Oct-19	Whitkar Equation
	6-Oct-19	**SUNDAY**
13	7-Oct-19	Jacobi's Equations
	8-Oct-19	**DUSSEHRA**
	9-Oct-19	Principle of Least Action
	10-Oct-19	Principle of Least Action
	11-Oct-19	Principle of Least Action
	12-Oct-19	Canonical and Free Canonical Transformations
	13-Oct-19	**SUNDAY (MAHARISHI VALMIKI JAYANTI)**
14	14-Oct-19	Canonical and Free Canonical Transformations
	15-Oct-19	Canonical and Free Canonical Transformations
	16-Oct-19	Canonical and Free Canonical Transformations
	17-Oct-19	**KARVA CHAUTH**
	18-Oct-19	Method of sep. of var. to solve Hamilton Jacobi eqn

	19-Oct-19	Method of Sep. of Var. to Solve Hamilton Jacobi Eqn
	20-Oct-19	**SUNDAY**
15	21-Oct-19	Lagrange Brackets and Poisson Brackets
	22-Oct-19	Lagrange Brackets and Poisson Brackets
	23-Oct-19	Lagrange Brackets and Poisson Brackets
	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	Canonical and Free Canonical Transformations
16	1-Nov-19	**HARYANA DAY**
	2-Nov-19	Conditonal Test
	3-Nov-19	**SUNDAY**
17	4-Nov-19	Problem Discussion
	5-Nov-19	Jacobi Theorm
	6-Nov-19	Jacobi Theorm
	7-Nov-19	Theorem on Variation of Total Energy
	8-Nov-19	Theorem on Variation of Total Energy
	9-Nov-19	Theorem on Variation of Total Energy
	10-Nov-19	**SUNDAY**
18	11-Nov-19	Theorem on Variation of Total Energy
	12-Nov-19	Problem Discussion
	13-Nov-19	Invariance of Lagrange And Poisson Brackets
	14-Nov-19	Invariance of Lagrange And Poisson Brackets
	15-Nov-19	Invariance of Lagrange And Poisson Brackets
	16-Nov-19	Invariance of Lagrange And Poisson Brackets
	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 (F) Section Subject Functional 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	Normed linear spaces, Banach spaces, examples subspace of a Banach space,
	23-Jul-19	Examples subspace of a Banach space
	24-Jul-19	Completion of a normed space
	25-Jul-19	Quotient space of a normed linear space
	26-Jul-19	Theorem of Quotient space of a normed linear space
	27-Jul-19	Product of normed spaces
	28-Jul-19	**SUNDAY**
3	29-Jul-19	Finite dimensional normed spaces andsubspaces
	30-Jul-19	Theorem of Finite dimensional normed spaces andsubspaces
	31-Jul-19	**SHAHEED UDHAM SINGH MARTYRDOM DAY**
	1-Aug-19	Equivalent norms
	2-Aug-19	Compactness and finite dimension
	3-Aug-19	**HARIYALI TEEJ**
	4-Aug-19	**SUNDAY**
4	5-Aug-19	F.Riesz's lemma
	6-Aug-19	Bounded and continuous linear operators,differentiation operator
	7-Aug-19	Integral operator,bounded linear extension
	8-Aug-19	Linear functionals, bounded linear functionals
4	9-Aug-19	Continuity andboundedness
	10-Aug-19	Definite integral, canonical mapping,
	11-Aug-19	**SUNDAY**
5	12-Aug-19	**ID-UL-ZUHA (BAKR-ID)**
	13-Aug-19	Linear operators and functionals
	14-Aug-19	Examples of Linear operators and functionals
	15-Aug-19	**INDEPENDENCE DAY / RAKSHA BANDHAN**
	16-Aug-19	Normed spaces of operators
	17-Aug-19	Examples of Normed spaces of operators
	18-Aug-19	**SUNDAY**
6	19-Aug-19	Dual spaces with examples
	20-Aug-19	Examples of Dual spaces
	21-Aug-19	Examples of Dual spaces
	22-Aug-19	Hahn-Banach theorem for real linear spaces
	23-Aug-19	Examples of Hahn-Banach theorem for real linear spaces
	24-Aug-19	**JANAMASHTMI**
	25-Aug-19	**SUNDAY**
7	26-Aug-19	Hahn-Banach theorem for real linear spaces
	27-Aug-19	Examples of Hahn-Banach theorem for real linear spaces
	28-Aug-19	Application to bounded linear functionals on C[a,b]
	29-Aug-19	Adjoint operator

	30-Aug-19	Norm of the adjoint operator
	31-Aug-19	Theoram of Norm of the adjoint operator
	1-Sep-19	**SUNDAY**
8	2-Sep-19	Reflexive spaces
	3-Sep-19	Riesz-representation theorem
	4-Sep-19	Riesz-representation theorem
	5-Sep-19	Uniform boundedness theorem
8	6-Sep-19	Application of above theoram to the space of polynomials&fourier series
	7-Sep-19	Inner product spaces,Hilbert spaces and their examples
	8-Sep-19	**SUNDAY**
9	9-Sep-19	Pythagorean theorem,Apolloniu's identity
	10-Sep-19	Schwarz inequality, continuity of innerproduct
	11-Sep-19	Completion of an inner product space
	12-Sep-19	Subspace of a Hilbert space
	13-Sep-19	Orthogonal complements and direct sums
	14-Sep-19	Theorems of Orthogonal complements and direct sums
	15-Sep-19	**SUNDAY**
10	16-Sep-19	Projection theorem
	17-Sep-19	Projection theorem
	18-Sep-19	Characterization of sets in Hilbert spaces
	19-Sep-19	Characterization of sets in Hilbert spaces
	20-Sep-19	Strong and weak convergence
	21-Sep-19	Weak convergence in lp
	22-Sep-19	**SUNDAY**
11	23-Sep-19	**SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY**
	24-Sep-19	Convergence of sequences ofoperators
	25-Sep-19	Uniform operator convergence
	26-Sep-19	Strong and weak operator
	27-Sep-19	Strong and weak* convergence of a sequence of functionals
	28-Sep-19	Open mapping theorem
	29-Sep-19	**SUNDAY (MAHARAJA AGRASEN JAYANTI)**
12	30-Sep-19	Conditional Test 1
	1-Oct-19	Bounded Inverse theorem
	2-Oct-19	**MAHATMA GANDHI JAYANTI**
	3-Oct-19	Closed linear operators,closed graph theoram
12	4-Oct-19	Differential operator
	5-Oct-19	Relation between closedness and boundedness of a linear operator
	6-Oct-19	**SUNDAY**
13	7-Oct-19	Relation between closedness and boundedness of a linear operator
	8-Oct-19	**DUSSEHRA**
	9-Oct-19	Orthonormal sets and sequences
	10-Oct-19	Examples of Orthonormal sets and sequences
	11-Oct-19	Bessel's inequality
	12-Oct-19	Series related to orthonormal sequences and sets
	13-Oct-19	**SUNDAY (MAHARISHI VALMIKI JAYANTI)**
14	14-Oct-19	Some more Examples
	15-Oct-19	Total(complete) orthonormal sets
	16-Oct-19	Examples of total(complete) orthonormal sets
	17-Oct-19	**KARVA CHAUTH**
	18-Oct-19	Parseval's identity

	19-Oct-19	Separable Hilbert spaces
	20-Oct-19	**SUNDAY**
15	21-Oct-19	Representation of functionals on Hilbert spaces
	22-Oct-19	Representation of functionals on Hilbert spaces
	23-Oct-19	Sesquilinear form
	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 2
16	1-Nov-19	**HARYANA DAY**
	2-Nov-19	Sesquilinear form theorem
	3-Nov-19	**SUNDAY**
17	4-Nov-19	Sesquilinear form theorem
	5-Nov-19	Hilbert adjoint operator
	6-Nov-19	Its existence and uniqueness
	7-Nov-19	Properties of Hilbert adjointoperators,Self adjoint
	8-Nov-19	Unitary operators, Normal operators
	9-Nov-19	Unitary operators, Normal operators
	10-Nov-19	**SUNDAY**
18	11-Nov-19	Positive and projection operators
	12-Nov-19	Theorems of Positive and projection operators
	13-Nov-19	Theorems of Positive and projection operators
	14-Nov-19	Examples of Positive and projection operators
	15-Nov-19	Examples of Positive and projection operators
	16-Nov-19	Theorems of Positive and projection operators
	17-Nov-19	**SUNDAY**
19	18-Nov-19	Revision

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LESSON PLAN (SESSION 2019-20)
LESSON PLAN: 19 WEEK (JULY – NOV)

WEEK	DATE	CLASS:-M.Sc.(F) Subject:-INTEGRAL EQUATIONS
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	Def. of integral equation
	23-Jul-19	Type of I.E.
	24-Jul-19	Eigen value and eigen function
	25-Jul-19	Discuss on kernal
	26-Jul-19	Special kind of kernal
	27-Jul-19	Convolution integral
	28-Jul-19	**SUNDAY**
3	29-Jul-19	Inner product of two functions
	30-Jul-19	Scaler product of two functions
	31-Jul-19	**SHAHEED UDHAM SINGH MARTYRDOM DAY**
	1-Aug-19	Reduction to system of algebric equations
	2-Aug-19	Reduction to system of algebric equations
	3-Aug-19	**HARIYALI TEEJ**
	4-Aug-19	**SUNDAY**
4	5-Aug-19	Test
	6-Aug-19	Related Example
	7-Aug-19	Related Example
	8-Aug-19	Related Example
4	9-Aug-19	Related Example
	10-Aug-19	Related Example
	11-Aug-19	**SUNDAY**
5	12-Aug-19	**ID-UL-ZUHA (BAKR-ID)**
	13-Aug-19	Related Example
	14-Aug-19	Fredholm alternative
	15-Aug-19	**INDEPENDENCE DAY / RAKSHA BANDHAN**
	16-Aug-19	Fredholm theorem
	17-Aug-19	Fredholm theorem
	18-Aug-19	**SUNDAY**
6	19-Aug-19	Fredholm alternative theorem
	20-Aug-19	Fredholm alternative theorem
	21-Aug-19	Approximate method
	22-Aug-19	Approximate method
	23-Aug-19	problem discussion
	24-Aug-19	**JANAMASHTMI**
	25-Aug-19	**SUNDAY**
7	26-Aug-19	Class test
	27-Aug-19	Method of succesive approximations
	28-Aug-19	Related Example
	29-Aug-19	Related Example

	30-Aug-19	Iterative scheme for fredholm
	31-Aug-19	Iterative scheme for volterra
	1-Sep-19	**SUNDAY**
8	2-Sep-19	I.E.of second kind
	3-Sep-19	Condition of uniform convergence
	4-Sep-19	Uniqueness of series solution
	5-Sep-19	Results about resolvent kernal
8	6-Sep-19	Results about resolvent kernal
	7-Sep-19	Results about resolvent kernal
	8-Sep-19	**SUNDAY**
9	9-Sep-19	Results about resolvent kernal
	10-Sep-19	application of volterra I.E.of second kind
	11-Sep-19	Classical fredholms theory
	12-Sep-19	Method of solution of fredholm equation
	13-Sep-19	Fredholm first theorem
	14-Sep-19	Fredholm second theorem
	15-Sep-19	**SUNDAY**
10	16-Sep-19	Fredholm third theorem
	17-Sep-19	Problem discussion
	18-Sep-19	Symmetric kernals
	19-Sep-19	Complex Hilbert space
	20-Sep-19	Orthonormal system of functions
	21-Sep-19	Riesz-Fisher theorem
	22-Sep-19	**SUNDAY**
11	23-Sep-19	**SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY**
	24-Sep-19	Complete two dimensional orthonormal
	25-Sep-19	Complete two dimensional orthonormal
	26-Sep-19	Complete two dimensional orthonormal
	27-Sep-19	Fundamental properties
	28-Sep-19	Fundamental properties
	29-Sep-19	**SUNDAY (MAHARAJA AGRASEN JAYANTI)**
12	30-Sep-19	Fundamental properties
	1-Oct-19	Eigen function and bilinear form
	2-Oct-19	**MAHATMA GANDHI JAYANTI**
	3-Oct-19	Eigen function and bilinear form
12	4-Oct-19	Eigen function and bilinear form
	5-Oct-19	Conditional-1
	6-Oct-19	**SUNDAY**
13	7-Oct-19	Hilbert-Schmidt theorem
	8-Oct-19	**DUSSEHRA**
	9-Oct-19	Some immediate consequances
	10-Oct-19	Definite kernals
	11-Oct-19	Mercers theorem
	12-Oct-19	Solution of a symmetric integral equation
	13-Oct-19	**SUNDAY (MAHARISHI VALMIKI JAYANTI)**
14	14-Oct-19	Solution of a symmetric integral equation
	15-Oct-19	Approximation of general L2 kernal
	16-Oct-19	Approximation of general L2 kernal
	17-Oct-19	**KARVA CHAUTH**
	18-Oct-19	Approximation of general L2 kernal

	19-Oct-19	Approximation of general L2 kernal
	20-Oct-19	**SUNDAY**
15	21-Oct-19	Rayleigh-Ritz method
	22-Oct-19	Rayleigh-Ritz method
	23-Oct-19	Rayleigh-Ritz method
	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	Operator method
16	1-Nov-19	**HARYANA DAY**
	2-Nov-19	Operator method
	3-Nov-19	**SUNDAY**
17	4-Nov-19	Operator method
	5-Nov-19	problem discussion
	6-Nov-19	conditional-2
	7-Nov-19	The Abel integral equation
	8-Nov-19	The Abel integral equation
	9-Nov-19	Inversion formula
	10-Nov-19	**SUNDAY**
18	11-Nov-19	Inversion formula
	12-Nov-19	Examples...
	13-Nov-19	Kernal of type h(s)-h(t)
	14-Nov-19	Cauchy principal value
	15-Nov-19	Cauchy-type singular I.E.
	16-Nov-19	Cauchy-type singular I.E.
	17-Nov-19	**SUNDAY**
19	18-Nov-19	examples...

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN (SESSION 2019-20)
LESSON PLAN: 19 WEEK (JULY – NOV)

WEEK	DATE	CLASS: M.Sc. (F) Subject:NUMBER THEORY
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	Divisibility and properties
	23-Jul-19	Division Algorithm
	24-Jul-19	Properties of divisibility
	25-Jul-19	Lcm and Gcd
	26-Jul-19	The linear diaphontine equation
	27-Jul-19	Numericals on related topic
	28-Jul-19	**SUNDAY**
3	29-Jul-19	Theorems based on diaphontine equations
	30-Jul-19	Examples based on diaphontine equations
	31-Jul-19	**SHAHEED UDHAM SINGH MARTYRDOM DAY**
	1-Aug-19	Congruences
	2-Aug-19	Related theorems
	3-Aug-19	**HARIYALI TEEJ**
	4-Aug-19	**SUNDAY**
4	5-Aug-19	Examples on congruences
	6-Aug-19	Unimodular matrix
	7-Aug-19	Results
	8-Aug-19	Pythagorean triplet
4	9-Aug-19	Related Theorems
	10-Aug-19	Primitive solution
	11-Aug-19	**SUNDAY**
5	12-Aug-19	**ID-UL-ZUHA (BAKR-ID)**
	13-Aug-19	Test
	14-Aug-19	Theorems based on Primitive solution
	15-Aug-19	**INDEPENDENCE DAY / RAKSHA BANDHAN**
	16-Aug-19	Theorems based on Primitive solution
	17-Aug-19	Examples on related topic
	18-Aug-19	**SUNDAY**
6	19-Aug-19	Farey sequences
	20-Aug-19	Theorm based on Farey sequences
	21-Aug-19	Examples based on Farey sequences
	22-Aug-19	Examples based on Farey sequences
	23-Aug-19	Examples based on Farey sequences
	24-Aug-19	**JANAMASHTMI**
	25-Aug-19	**SUNDAY**
7	26-Aug-19	Rational approximation
	27-Aug-19	Rational approximation
	28-Aug-19	Rational approximation
	29-Aug-19	Irrational numbers

	30-Aug-19	Examples
	31-Aug-19	Blichfeldt's principal
	1-Sep-19	**SUNDAY**
8	2-Sep-19	Blichfeldt's principal
	3-Sep-19	Blichfeldt's principal
	4-Sep-19	Lagrangian Four square equation
	5-Sep-19	Lagrangian Four square equation
8	6-Sep-19	Hurwitz theorem
	7-Sep-19	Hurwitz theorem
	8-Sep-19	**SUNDAY**
9	9-Sep-19	Test
	10-Sep-19	Minkowski Convex body theorem
	11-Sep-19	Minkowski Convex body theorem
	12-Sep-19	Test
	13-Sep-19	Related questions
	14-Sep-19	Related questions
	15-Sep-19	**SUNDAY**
10	16-Sep-19	Continued Fraction
	17-Sep-19	Related examples
	18-Sep-19	Theorems on continued fraction
	19-Sep-19	Theorems on continued fraction
	20-Sep-19	Infinite continued fraction
	21-Sep-19	Related theorems
	22-Sep-19	**SUNDAY**
11	23-Sep-19	**SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY**
	24-Sep-19	Related theorems
	25-Sep-19	Related theorems
	26-Sep-19	Related theorems
	27-Sep-19	Examples on continued fraction
	28-Sep-19	Examples on continued fraction
	29-Sep-19	**SUNDAY (MAHARAJA AGRASEN JAYANTI)**
12	30-Sep-19	Examples on continued fraction
	1-Oct-19	Examples on continued fraction
	2-Oct-19	**MAHATMA GANDHI JAYANTI**
	3-Oct-19	Approximation to irrational number
12	4-Oct-19	Conditional test
	5-Oct-19	Related theorem
	6-Oct-19	**SUNDAY**
13	7-Oct-19	Related theorem
	8-Oct-19	**DUSSEHRA**
	9-Oct-19	Hurwitz theorem
	10-Oct-19	Related examples
	11-Oct-19	Related theorems
	12-Oct-19	Related examples
	13-Oct-19	**SUNDAY (MAHARISHI VALMIKI JAYANTI)**
14	14-Oct-19	Peroidic continued fraction
	15-Oct-19	Peroidic continued fraction
	16-Oct-19	Test
	17-Oct-19	**KARVA CHAUTH**
	18-Oct-19	Partition

	19-Oct-19	Ferres graph
	20-Oct-19	**SUNDAY**
15	21-Oct-19	Ferres graph
	22-Oct-19	Ferres graph
	23-Oct-19	Formal power series
	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	Formal power series
16	1-Nov-19	**HARYANA DAY**
	2-Nov-19	Formal power series
	3-Nov-19	**SUNDAY**
17	4-Nov-19	Problem discussion
	5-Nov-19	Conditional test
	6-Nov-19	Functions and euler identity
	7-Nov-19	Functions and euler identity
	8-Nov-19	Functions and euler identity
	9-Nov-19	Problem discussion
	10-Nov-19	**SUNDAY**
18	11-Nov-19	Euler formula
	12-Nov-19	Euler formula
	13-Nov-19	Euler formula
	14-Nov-19	Bounds on P(n)
	15-Nov-19	Jaacobi formula
	16-Nov-19	Divisibility and properties
	17-Nov-19	**SUNDAY**
19	18-Nov-19	Problem discussion