

Lesson Plan Odd Semester (Session 2018-19)

Name of Assistant/Associate Professor
class-M.Sc. (F)

Miss Pooja
Subject Algebraic Coding Theory

July 13, 2018 to July 14, 2018 (Week 1)			
13/07/18		14/07/18	
July 16, 2018 to July 21, 2018(Week 2)			
16/07/18		17/07/18	
18/07/18		19/07/18	
20/07/18	block codes,minimum distance	21/07/18	continue...
July 23, 2018 to July 28, 2018(Week 3)			
23/07/18	continue...	24/07/18	group codes
25/07/18	continue...	26/07/18	continue....
27/07/18	minimum distance of group codes	28/07/18	continue...
July 30, 2018 to August 04, 2018(Week 4)			
30/07/18	continue...	31/07/18	Shahid Udham Singh Shahidi Diwas
01/08/18	Problem discussion	02/08/18	double and repition codes
03/08/18	continue...	04/08/18	continue...
August 06, 2018 to August 11, 2018(Week 5)			
06/08/18	generator matrix	07/08/18	continue...
08/08/18	continue...	09/08/18	dual codes .polynomial codes
10/08/18	continue...	11/08/18	exponent polynomial
August 13, 2018 to August 18, 2018(Week 6)			
13/08/18	continue....	14/08/18	continue....
15/08/18	Independence Day	16/08/18	Problem discussion
17/08/18	hamming codes	18/08/18	continue....
August 20, 2018 to august 25, 2018(Week 7)			
20/08/18	continue...	21/08/18	Problem discussion
22/08/18	Id-UI-Juha	23/08/18	finite field
24/08/18	continue...	25/08/18	primitive element of finite field
August 27, 2018 to September 01, 2018(Week 8)			
27/08/18	continue...	28/08/18	continue....
29/08/18	irreducible polynomial over finite field	30/08/18	continue..
31/08/18	continue...	01/09/18	continue...
September 03, 2018 to September 08, 2018(Week 9)			
03/09/18	Janamashatmi	4/Sep/18	Problem discussion
05/09/18	automorphism of GF	06/09/18	continue....
07/09/18	continue....	08/09/18	continue...

September 10, 2018 to September 15, 2018(Week 10)			
10/09/18	normal basis of GF	11/09/18	continue....
12/09/18	continue...	13/09/18	order of irreducible polynomial
14/09/18	continue	15/09/18	continue....
September 17, 2018 to September 22, 2018(Week 11)			
17/09/18	Problem discussion	09/18/18	bose-chaudhuri-hocqhenghem codes
19/09/18	continue....	20/09/18	continue....
21/09/18	construction of BCH code	22/09/18	continue...
September 24, 2018 to September 29, 2018(Week 12)			
24/09/18	continue...	25/09/18	linear codes,generator matrix
26/09/18	continue...	27/09/18	relation b/w generator and parity matrix
28/09/18	continue	29/09/18	continue
October 01, 2018 to October 06, 2018(Week 13)			
01/10/18	conditional	02/10/18	Gandhi Jayanti
03/10/18	problem discussion	04/10/18	dual code of a linear code
05/10/18	continue	06/10/18	continue
October 08, 2018 to October 13, 2018(Week 14)			
08/10/18	self dual code	09/10/18	continue
10/10/18	Maharaja Aggarsain Jayanti	11/10/18	continue
12/10/18	macwilliams identity of linear codes	13/10/18	continue
October 15, 2018 to October 20, 2018(Week 15)			
15/10/18	MDS CODES and exp	16/10/18	continue
17/10/18	trivial MDS code	18/10/18	Dushehra
19/10/18	continue....	20/10/18	continue...
October 22, 2018 to October 27, 2018(Week 16)			
22/10/18	hadamard matrix	23/10/18	continue...
24/10/18	Mahrishi Valmiki Jayanti	25/10/18	continue...
26/10/18	hadamard codes	27/10/18	continue...
October 29, 2018 to November 03, 2018(Week 17)			
29/10/18	generator polynomial of a cyclic code	30/10/18	continue...
31/10/18	continue...	01/11/18	Haryana Day
2/11/18	check polynomial	3/11/18	continue...
VACATIONS FROM 4 NOV. 2018 TO 11 NOV. 2018			
12/11/18	Theorems	13/11/18	some more theorem
	examples	15/11/18	some more examples
16/11/18	theorems	17/11/18	test

Lesson Plan Odd Semester (Session 2018-19)

Name of Assistant/Associate Professor: Anchal Jain
 Class M.sc.(F) Subject Functional Analysis

July 13, 2018 to July 14, 2018 (Week 1)			
13/07/18		14/07/18	
July 16, 2018 to July 21, 2018(Week 2)			
16/07/18		17/07/18	
18/07/18		19/07/18	
20/07/18	Normed linear spaces, Banach spaces and examples	21/07/18	Examples subspace of a Banach space
July 23, 2018 to July 28, 2018(Week 3)			
23/07/18	Completion of a normed space	24/07/18	Quotient space of a normed linear space
25/07/18	Theorem continued	26/07/18	Product of normed spaces
27/07/18	Finite dimensional normed spaces and subspaces	28/07/18	Theorem continued
July 30, 2018 to August 04, 2018(Week 4)			
30/07/18	Equivalent norms	31/07/18	Shahid Udham Singh Shahidi Diwas
01/08/18	Compactness and finite dimension	02/08/18	F.Riesz's lemma
03/08/18	Bounded and continuous linear operators, difference	04/08/18	Integral operator, bounded linear extension
August 06, 2018 to August 11, 2018(Week 5)			
06/08/18	Linear functionals, bounded linear functionals	07/08/18	Continuity and boundedness
08/08/18	Definite integral, canonical mapping,	09/08/18	Linear operators and functionals
10/08/18	Some more examples	11/08/18	Normed spaces of operators
August 13, 2018 to August 18, 2018(Week 6)			
13/08/18	Some more examples	14/08/18	Dual spaces with examples
15/08/18	Independence Day	16/08/18	Some more examples
17/08/18	Revision	18/08/18	Hahn-Banach theorem for real linear spaces
August 20, 2018 to August 25, 2018(Week 7)			
20/08/18	some more examples	21/08/18	complex linear & normed linear spaces
22/08/18	Id-U-Juha	23/08/18	more examples
24/08/18	application to bounded linear functionals on $C[a, b]$	25/08/18	adjoint operator
August 27, 2018 to September 01, 2018(Week 8)			
27/08/18	Norm of the adjoint operator	28/08/18	Theorem continued
29/08/18	Reflexive spaces	30/08/18	Riesz-representation theorem
31/08/18	Theorem continued	01/09/18	Uniform boundedness theorem
September 03, 2018 to September 08, 2018(Week 9)			
03/09/18	Janamashatmi	04/09/18	Revision
05/09/18	Inner product spaces, Hilbert spaces and their examples	06/09/18	Pythagorean theorem, Apollonius's identity
07/09/18	Schwarz inequality, continuity of inner product	08/09/18	Completion of an inner product space

September 10, 2018 to September 15, 2018(Week 10)			
10/09/18	Subspace of a Hilbert space	11/09/18	Orthogonal complements and direct sums
12/09/18	More theorem	13/09/18	Projection theorem
14/09/18	Theorem continued	15/09/18	Characterization of sets in Hilbert spaces
September 17, 2018 to September 22, 2018(Week 11)			
17/09/18	Revision	18/09/18	Strong and weak convergence,
19/09/18	Weak convergence in l_p	20/09/18	Convergence of sequences of operators
21/09/18	Uniform operator convergence	22/09/18	Strong and weak operator
September 24, 2018 to September 29, 2018(Week 12)			
24/09/18	Strong and weak* convergence of a sequence of f	25/09/18	Open mapping theorem
26/09/18	Bounded inverse theorem	27/09/18	Closed linear operators, graph theorem
28/09/18	Conditional Test 1	29/09/18	Differential operator
October 01, 2018 to October 06, 2018(Week 13)			
01/10/18	Relation between closedness and boundedness of	02/10/18	Gandhi Jayanti
03/10/18	Revision	04/10/18	Orthonormal sets and sequences
05/10/18	More Examples	06/10/18	Bessel's inequality
October 08, 2018 to October 13, 2018(Week 14)			
08/10/18	series related to orthonormal sequences and sets	09/10/18	Some more Examples
10/10/18	Maharaja Aggarsain Jayanti	11/10/18	total(complete) orthonormal sets
12/10/18	Some more examples	13/10/18	Parseval's identity, separable Hilbert spaces
October 15, 2018 to October 20, 2018(Week 15)			
15/10/18	Representation of functionals on Hilbert spaces	16/10/18	theorem continued
17/10/18	Theorem continued	18/10/18	Dushehra
19/10/18	Sesquilinear form	20/10/18	theorem ctd.
October 22, 2018 to October 27, 2018(Week 16)			
22/10/18	Theorem continued	23/10/18	Hilbert adjoint operator
24/10/18	Mahrishi Valmiki Jayanti	25/10/18	Its existence and uniqueness
26/10/18	Properties of Hilbert adjoint operators	27/10/18	Self adjoint
October 29, 2018 to November 03, 2018(Week 17)			
29/10/18	Conditional Test 2	30/10/18	Unitary operators
31/10/18	Normal operators	01/11/18	Haryana Day
02/11/18	Positive and projection operators	03/11/18	Revision
VACATIONS FROM 4 NOV. 2018 TO 11 NOV. 2018			
12/11/18	Theorems	13/11/18	Some more theorem
14/11/18	Examples	15/11/18	Some more examples
16/11/18	Theorems	17/11/18	Test

Lesson Plan Odd Semester (Session 2018-19)

Name of Assistant/Associate Professor

Class M.Sc.F

Subject Integral equations

July 13, 2018 to July 14, 2018 (Week 1)			
13/07/18		14/07/18	
July 16, 2018 to July 21, 2018(Week 2)			
16/07/18		17/07/18	
18/07/18		19/07/18	
20/07/18	Def.of integral equation	21/07/18	Typeof I.E.
July 23, 2018 to July 28, 2018(Week 3)			
23/07/18	Eigen value and eigen function	24/07/18	discuss on kernal
25/07/18	Special kind of kernal	26/07/18	convolution integral
27/07/18	inner product of two functions	28/07/18	scaler product of two functions
July 30, 2018 to August 04, 2018(Week 4)			
30/07/18	Reduction to system of algebraic equations	31/07/18	Shahid Udham Singh Shahidi Diwas
01/08/18	continue....	02/08/18	test
03/08/18	examples...	04/08/18	examples...
August 06, 2018 to August 11, 2018(Week 5)			
06/08/18	examples...	07/08/18	examples...
08/08/18	examples...	09/08/18	examples...
10/08/18	Fredholm alternative	11/08/18	Fredholm theorem
August 13, 2018 to August 18, 2018(Week 6)			
13/08/18	continue....	14/08/18	Fredholm alternative theorem
15/08/18	Independence Day	16/08/18	continue....
17/08/18	Approximate method	18/08/18	continue....
August 20, 2018 to august 25, 2018(Week 7)			
20/08/18	problem discussion	21/08/18	class test
22/08/18	Id-UI-Juha	23/08/18	Method of succesive approximations
24/08/18	examples...	25/08/18	continue....
August 27, 2018 to September 01, 2018(Week 8)			
27/08/18	Iterative scheme for fredholm	28/08/18	Iterative scheme for volterra
29/08/18	I.E.of second kind	30/08/18	condition of uniform convergence
31/08/18	uniqueness of series solution	01/09/18	Results about resolvent kernal
September 03, 2018 to September 08, 2018(Week 9)			
03/09/18	Janamashatmi	04/09/18	continue....
05/09/18	continue....	06/09/18	continue....
07/09/18	Talent Search Competition	08/09/18	Talent Search Competition

September 10, 2018 to September 15, 2018(Week 10)			
10/09/18	application of volterra I.E.of second kind	11/09/18	classical fredholms theory
12/09/18	method of solution of fredholm equation	13/09/18	fredholm first theorem
14/09/18	Fredholm second theorem	15/09/18	Fredholm third theorem
September 17, 2018 to September 22, 2018(Week 11)			
17/09/18	problem discussion	18/09/18	Symmetric kernals
19/09/18	Complex Hilbert space	20/09/18	orthonormal system of functions
21/09/18	Riesz-Fisher theorem	22/09/18	complete two dimensional orthonormal
September 24, 2018 to September 29,2018(Week 12)			
24/09/18	Fundamental properties	25/09/18	continue....
26/09/18	continue....	27/09/18	Eigen function and bilinear form
28/09/18	Hilbert-Schmidt theorem	29/09/18	Some immediate consequences
October 01, 2018 to October 06,2018(Week 13)			
01/10/18	Definite kernals	02/10/18	Gandhi Jayanti
03/10/18	Mercers theorem	04/10/18	solution of a symmetric integral equation
05/10/18	continue....	06/10/18	conditional test-1
October 08, 2018 to October 13,2018(Week 14)			
08/10/18	test discussion	09/10/18	Approximation of general L2 kernal
10/10/18	Maharaja Aggarsain Jayanti	11/10/18	continue....
12/10/18	operator method	13/10/18	continue....
October 15, 2018 to October 20,2018(Week 15)			
15/10/18	Rayleigh-Ritz method	16/10/18	continue....
17/10/18	problem discussion	18/10/18	Dushehra
19/10/18	The Abel integral equation	20/10/18	continue....
October 22, 2018 to October 27,2018(Week 16)			
22/10/18	Inversion formula	23/10/18	continue....
24/10/18	Mahrishi Valmiki Jayanti	25/10/18	continue....
26/10/18	examples...	27/10/18	examples...
October 29, 2018 to November 03,2018(Week 17)			
29/10/18	kernal of type $h(s)-h(t)$	30/10/18	cauchy principal value
31/10/18	cauchy-type singular I.E.	01/11/18	Haryana Day
02/11/18	ctd...	03/11/18	ctd...
VACATIONS FROM 4 NOV. 2018 TO 11 NOV. 2018			
12/11/18	Theorems	13/11/18	some more theorem
14/11/18	examples	15/11/18	some more examples
16/11/18	theorems	17/11/18	test

Lesson Plan Odd Semester (Session 2018-19)

Name of Assistant/Associate Professor

Ms. Geetika

Class M.Sc final

Subject Analytical Mechanics & Cal.of Variations

July 13, 2018 to July 14, 2018 (Week 1)			
13/07/18		14/07/18	
July 16, 2018 to July 21, 2018(Week 2)			
16/07/18		17/07/18	
18/07/18		19/07/18	
20/07/18	introduction	21/07/18	euler's theorm and its particular cases
July 23, 2018 to July 28, 2018(Week 3)			
23/07/18	continue...	24/07/18	numericals
25/07/18	continue...	26/07/18	shortest distance problem
27/07/18	Minimum surface of revolution	28/07/18	Brachistochrone problem
July 30, 2018 to August 04, 2018(Week 4)			
30/07/18	continue...	31/07/18	Shahid Udham Singh Shahidi Diwas
01/08/18	Isoperimetric problem	02/08/18	related numericals
03/08/18	Geodesic	04/08/18	continue...
August 06, 2018 to August 11, 2018(Week 5)			
06/08/18	continue...	07/08/18	continue...
08/08/18	continue...	09/08/18	fundamental lemma of cal. of variation
10/08/18	gen. of euler eqn to n dependent functions	11/08/18	functional dep on higher order derivatives
August 13, 2018 to August 18, 2018(Week 6)			
13/08/18	continue...	14/08/18	continue...
15/08/18	Independence Day	16/08/18	natural boundary and transition conditions
17/08/18	continue...	18/08/18	continue...
August 20, 2018 to august 25, 2018(Week 7)			
20/08/18	continue...	21/08/18	numericals to find extremum
22/08/18	Id-UI-Juha	23/08/18	continue...
24/08/18	continue...	25/08/18	variational derivative & variable end point
August 27, 2018 to September 01, 2018(Week 8)			
27/08/18	doubts..	28/08/18	doubts..
29/08/18	Generalized coordinates,velocity	30/08/18	Generalized displacement,force,potential
31/08/18	continue...	01/09/18	Holonomic and Non-Holonomic systems
September 03, 2018 to September 08, 2018(Week 9)			
03/09/18	Janamashatmi	04/09/18	Possible and virtual displacements
05/09/18	D'Alembert's principle	06/09/18	Principle of virtual displacements
07/09/18	Lagrange's equations of first kind	08/09/18	Lagrange's equations of second kind

September 10, 2018 to September 15, 2018(Week 10)			
10/09/18	continue...	11/09/18	Uniqueness of solution
12/09/18	Theorem on variation of total Energy	13/09/18	continue...
14/09/18	Potential, Gyroscopic and dissipative forces	15/09/18	lagrange's eqn for for conservative fields
September 17, 2018 to September 22, 2018(Week 11)			
17/09/18	continue...	18/09/18	continue...
19/09/18	doubts..	20/09/18	Hamilton's variables
21/09/18	Don kin's theorem	22/09/18	Hamilton canonical equations
September 24, 2018 to September 29,2018(Week 12)			
24/09/18	continue...	25/09/18	Cyclic coordinates Poisson's Bracket
26/09/18	Cyclic coordinates Poisson's Bracket	27/09/18	Cyclic coordinates Poisson's Bracket
28/09/18	CONDITIONAL...	29/09/18	Poisson's Identity
October 01, 2018 to October 06,2018(Week 13)			
01/10/18	continue...	02/10/18	Gandhi Jayanti
03/10/18	Jacobi-Poisson theorem	04/10/18	hamilton's principle
05/10/18	continue...	06/10/18	continue...
October 08, 2018 to October 13,2018(Week 14)			
08/10/18	Poincare-Carton integral invariant	09/10/18	continue...
10/10/18	Maharaja Aggarsain Jayanti	11/10/18	Whittaker's equations
12/10/18	jacobi's equations	13/10/18	Principle of least action
October 15, 2018 to October 20,2018(Week 15)			
15/10/18	continue...	16/10/18	continue...
17/10/18	doubts..	18/10/18	Dushehra
19/10/18	Canonical and free canonical transformations	20/10/18	Canonical and free canonical transformations
October 22, 2018 to October 27,2018(Week 16)			
22/10/18	jacobi theorem	23/10/18	continue...
24/10/18	Mahrishi Valmiki Jayanti	25/10/18	Method of sep. of var. to solve HamiltonJacobi eqn
26/10/18	continue...	27/10/18	continue...
October 29, 2018 to November 03,2018(Week 17)			
29/10/18	Lagrange brackets and Poisson brackets	30/10/18	CONDITIONAL...
31/10/18	continue...	01/11/18	Haryana Day
02/11/18	continue...	03/11/18	continue...
vacations from 4 nov to 11 nov (week 18)			
12/11/18	invariance of lagrange and poisson brackets	13/11/18	continue...
14/11/18	continue...	15/11/18	continue...
16/11/18	problems	17/11/18	test

Lesson Plan Odd Semester (Session 2018-19)

Name of Assistant/Associate Professor

Manju Kundu

Class M.Sc. Maths (final year)

Subject Number Theory

July 13, 2018 to July 14, 2018 (Week 1)			
13/07/18		14/07/18	
July 16, 2018 to July 21, 2018(Week 2)			
16/07/18		17/07/18	
18/07/18		19/07/18	
20/07/18	Simultaneous linear equations	21/07/18	theorems
July 23, 2018 to July 28, 2018(Week 3)			
23/07/18	some more theorem	24/07/18	examples
25/07/18	examples	26/07/18	problem discussion
27/07/18	some more theorem	28/07/18	theorems
July 30, 2018 to August 04, 2018(Week 4)			
30/07/18	some more theorem	31/07/18	Shahid Udham Singh Shahidi Diwas
01/08/18	examples	02/08/18	problem discussion
03/08/18	division algorithm	04/08/18	theorems
August 06, 2018 to August 11, 2018(Week 5)			
06/08/18	examples	07/08/18	Pythagorean triangles
08/08/18	theorems	09/08/18	examples
10/08/18	problem discussion	11/08/18	assorted examples
August 13, 2018 to August 18, 2018(Week 6)			
13/08/18	theorems	14/08/18	some more theorem
15/08/18	Independence Day	16/08/18	examples
17/08/18	problem discussion	18/08/18	more theorems based on the topic
August 20, 2018 to august 25, 2018(Week 7)			
20/08/18	theorems	21/08/18	some more theorem
22/08/18	Id-UI-Juha	23/08/18	problem discussion
24/08/18	examples	25/08/18	ternary quadratic forms
August 27, 2018 to September 01, 2018(Week 8)			
27/08/18	theorems	28/08/18	some more theorem
29/08/18	some more theorem	30/08/18	examples
31/08/18	examples continued	01/09/18	articles
September 03, 2018 to September 08, 2018(Week 9)			
03/09/18	Janamashatmi	04/09/18	theorems
05/09/18	some more theorem	06/09/18	problem discussion
07/09/18	rational points on curves	08/09/18	theorems

September 10, 2018 to September 15, 2018(Week 10)			
10/09/18	some more theorem	11/09/18	examples
12/09/18	Elliptic curves	13/09/18	articles based on the topic
14/09/18	Factorization using elliptic curves	15/09/18	theorems
September 17, 2018 to September 22, 2018(Week 11)			
17/09/18	curves of genus greater than 1.	18/09/18	Farey sequence
19/09/18	some more theorem	20/09/18	examples
21/09/18	rational approximations	22/09/18	theorems
September 24, 2018 to September 29,2018(Week 12)			
24/09/18	examples	25/09/18	Hurwitz theorem,
26/09/18	irrational numbers	27/09/18	some more theorem
28/09/18	examples	29/09/18	problem discussion
October 01, 2018 to October 06,2018(Week 13)			
01/10/18	conditional test I	02/10/18	Gandhi Jayanti
03/10/18	examples	04/10/18	problem discussion
05/10/18	Geometry of numbers	06/10/18	some more theorem
October 08, 2018 to October 13,2018(Week 14)			
08/10/18	examples	09/10/18	Blichfeldt's principle
10/10/18	Maharaja Aggarsain Jayanti	11/10/18	Minkowski's Convex body theorem
12/10/18	Lagrange's four square theorem	13/10/18	Euclidean algorithm
October 15, 2018 to October 20,2018(Week 15)			
15/10/18	Euclidean algorithm	16/10/18	infinite continued fractions
17/10/18	irrational numbers	18/10/18	Dushehra
19/10/18	approximations to irrational numbers	20/10/18	Best possible approximations
October 22, 2018 to October 27,2018(Week 16)			
22/10/18	Periodic continued fractions	23/10/18	some more theorem
24/10/18	Mahrishi Valmiki Jayanti	25/10/18	examples
26/10/18	Partitions and Ferrers Graphs	27/10/18	Formal power series
October 29, 2018 to November 03,2018(Week 17)			
29/10/18	bounds on $P(n)$ and Jacobi's formula	30/10/18	Euler's formula
31/10/18	Conditional test II	01/11/18	Haryana Day
02/11/18	bounds on $P(n)$ and Jacobi's formula	03/11/18	A divisibility property
VACATIONS FROM 4 NOV. 2018 TO 11 NOV. 2018			
12/11/18	Theorems	13/11/18	some more theorem
14/11/18	examples	15/11/18	some more examples
16/11/18	theorems	17/11/18	test