SESSION 2020-2021

Weekly Lesson Plan (Odd Semester) Name of the Paper:- Advanced Abstract algebra-I Name of the Teacher : Mansi bansal

(1st Semester)

CLASS : M.Sc. (Mathematics) Previous

WEEK	DATE	TOPICS	
		Automorphism of a group G	
1	December	Inner automorphism of a group G	
1	(22-24) , (26)	The group Aut(G) and Inn(G)	
		Automorphism group of a cyclic group	
HOIDAY - 25.12.2020 (CHRISTMAS)			
SUNDAY - 27.12.2020			
		Normaliser of a non-empty subset of a group	
		Centraliser of a non-empty subset of a group	
2	December (28-31) January	Theorems on normaliser and centraliser	
2	(28-31) January (1-2)	Theorems on normaliser and centraliser	
		Conjugate elements and conjugacy class	
		Class equation of a finite group	
		SUNDAY - 03.01.2021	
Applications of a class equation			
		Derived group	
3	January (4-9)	Perfect group	
3		theorem on perfect group	
		Zassenhau's lemma	
		Normal series	
SUNDAY - 10.01.2021			
		Scheier's refinement theorem	
		Simple group and composition series	
4	January	Theorems on composition series	
4	(11-16)	Theorems on composition series	
		Jorden Holder theorem	
		Composition series of group of order p^n and abelian groups	
SUNDAY - 17.01.2021			
	January (18-19) (21-23)	Cauchy theorem for finite groups	
		p-groups	
5		Sylow theory	
		Sylow theory	
		Sylow theory	
HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)			
SUNDAY - 24.01.2021			

		Problem discussion		
		Characteristic of a ring with unity		
6	January	Prime fields		
	(25) (27-30)	Theorems on prime filed		
		Field extension		
	ŀ	IOLIDAY - 26.01.2021 (Republic Day)		
SUNDAY - 31.01.2021				
		Degree of an extension		
		Algebraic and Transcendental elements		
7	February (1	Problem discussion		
,	6)	Theorems on field extension		
		Theorems on field extension		
		Theorems on field extension		
		SUNDAY - 07.02.2021		
		Simple field extension		
		Theorems on simple field extension		
0	February (8	Theorems on simple field extension		
8	13)	Minimal polynomial of an algebraic extension		
		Problem discussion		
		Conjugate elements		
SUNDAY - 14.02.2021				
		Algebraic extension		
	February	Finitely generated Algebraic extension		
9	(15) (17-20)	Theorems on algebraic extension		
	(13) (17 20)	Theorems on algebraic extension		
		Theorems on algebraic extension		
HOIDAY - 16.02.2021 (Basant Panchami) / (Sir Chotu Ram Jayanti)				
SUNDAY - 21.02.2021				
		Algebraic closure and algebraically closed fields		
	February	Splitting fileds		
10	(22-26)	Theorems on splitting fields		
	()	examples on splitting fields		
		Finite fields		
	НОШ	DAY - 27.02.2021 (Guru Ravidas Jayanti)		
		SUNDAY - 28.02.2021		
		Normal extension		
		Theorem Normal extension		
11	March	Problem discussion		
11	(01-06)	Seperable elements		
		Seperable polynomial and seperable extension		
		Theorems on seperable extension		
SUNDAY - 07.03.2021				

		Theorems on seperable extension	
	March	Theorems on seperable extension	
12		Theorem of primitive element	
	(08-10) (12-13)	Perfect fields	
		Galois extension	
	Hi	OLIDAY - 11.03.2021 (Maha Shivratri)	
SUNDAY - 14.03.2021			
		Galois group of an extension	
		Dedekiond lemma	
13	March	Fundamental theorem of Galois theory	
13	(15-20)	Frobenius automorphism of a finite field	
		Klein's 4-group	
		Diheadral group	
		SUNDAY - 21.03.2021	
		Galois groups of polynomials	
14	March (22) (24-26)	Fundamental theorem of algebra	
14		Problem discussion	
		Solvable groups	
HOLIDAY - 23.03.2021 (Shaheedi Diwas/Martyrdum Day of Bhagat Singh, Rajguru & Sukhdev)			
HOLIDAYS - 27.03.2021 to 31.03.2021 (Holi break)			
		Derived series of a group	
15	April (01-03)	Simplicity of the alternating group An (n>=5)	
		Non-solvability of the symmetric group sn	
		SUNDAY -04.04.2021	
		Non-solvability of the alternating group An	
		Roots of unity cyclotomic polynomials and their irreducibility over Q	
16	April	Radical extension	
10	(05-10)	Galois radical extension	
		Cyclic extension	
		Solvability of polynomials by radicals over Q	
		SUNDAY -11.04.2021	
	April	Construction with ruler and compass only	
17	April (12-13) (15)	Problem discussion	
		Revision	

SESSION 2020-2021

(1st Semester)

Weekly Lesson Plan (Odd Semester) NAME OF PAPER- REAL ANALYSIS-I Name of the Teacher : KOMAL

Class: M.Sc. (Mathematics) Previous

WEEK	DATE	TOPICS			
		Definition and existence of riemann integral function			
1	December	Definition and existence of RIEMANN STIELIES INTEGRAL, and some examples			
	(22-24) , (26)	theorem based on upper sum			
		theorem based on lower sum			
		HOIDAY - 25.12.2020 (CHRISTMAS)			
		SUNDAY - 27.12.2020			
		theorem based on refinement and common refinement			
		theorem based on integration			
2	December	thorem based on differentiation			
2	(28-31) January (1-2)	cauchy criteria for integrability			
		theorem based on differentiation continued.			
		doubt session			
		SUNDAY - 03.01.2021			
first mean value theorem					
		Change of variable			
_	January	fundamental theorem of integral calculus			
3	(4-9)	integration by parts			
		theorem based on integration by parts			
		doubt session			
SUNDAY - 10.01.2021					
		integration by vector valued function			
		examples based on integration by vector valued function			
	January	unit step function(introduction)			
4	(11-16)	rectifiable curves general introduction			
		theorem based on rectifiable curves			
		doubt session			
		SUNDAY - 17.01.2021			
		general introduction to sequence and series			
		convergence of a sequence			
5	January (18-19) (21-23)	convergence of a series			
		pointwise convergence and examples			
		uniform convergence and example based on uniform convergence			
HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)					
SUNDAY - 24.01.2021					

		Cauchy criterion for uniform convergence		
	January	weirstrass M-TEST		
6	(25) (27-30)	Abel's test for uniform convergence		
		Dirichlet's test for uniform convergence		
		doubt session		
		HOLIDAY - 26.01.2021 (Republic Day)		
		SUNDAY - 31.01.2021		
		Uniform continuity		
		examples based on uniform continuity		
	February (1-	RIEMANN STIELTJES INTEGRATION		
7	6)	UNIFORM CONVERGENCE AND DIFFERENTIATION		
		EXISTENCE OF REAL CONTINUOUS NOWHERE DIFFERENTIABLE FUNCTION		
		doubt session		
		07.02.2021		
		Introduction to equicontinuous families of fuctions		
		theorem based of equicontinuous functions		
_	February (8-	weierstrass approximation theorem		
8	13)	doubt session		
		general introduction to variables		
		intro about functions of several variables		
14.02.2021				
		LINEAR TRANSFORMATION		
		THEOREMS BASED ON LINEAR TRANSFORMATION		
9	February(14-20)	derivative in an open subset of R^n		
		definitions of fixed point contration mapping		
		examples of contartion mapping		
	HOIDAY - 16.0	2.2021 (Basant Panchami) / (Sir Chotu Ram Jayanti)		
		SUNDAY - 21.02.2021		
		banach fixed point theoprem(CONTRATION PRINCIPAL)		
		CHAIN RULE		
10	February	DEFINITION OF CONVEX SET and some theorems based on it		
_	(22-26)	partial derivative		
		Differential derivatives		
	НО	IDAY - 27.02.2021 (Guru Ravidas Jayanti)		
		SUNDAY - 28.02.2021		
		INVERSE FUNCTION THEOREM		
		IMPLICIT FUNCTION THEOREM		
	March	JACOBIANS		
11	(01-06)	EXTREME PROBLEMS WITH CONSTRAINTS		
		LAGRANGE'S MULTIPLIER METHOD		
		doubt session		
SUNDAY - 07.03.2021				
SUNDAY - 07.03.2021				

		test of section 1		
12	March	derivative of hiogher order		
	(08-10) (12-13)	mean value theorem for real functions of two variables		
		interchange of the order of differentiation		
		doubt session		
	H	HOLIDAY - 11.03.2021 (Maha Shivratri)		
SUNDAY - 14.03.2021				
		test of section 2		
		differentiation of integrals		
13	March	introduction to power series		
15	(15-20)	examples of power series		
		uniqueness theorem for power series		
		ABEL'S AND TAUBER'S THEOREM		
		SUNDAY - 21.03.2021		
		TAYLOR'S THEOREM		
14	March	Exponential &logarithm fuctions		
14	(22) (24-26)	functions		
		trigonomertic functions		
HOLIDAYS - 27.03.2021 to 31.03.2021 (Holi break)				
		fourier series		
15	April (01-03)	gamma function		
		doubt session		
SUNDAY -04.04.2021				
		test (half section 3)		
		test(remaining half section-3)		
10	April	integration of differtial forms		
16	(05-10)	partitions of unity		
		differential forms		
		STOKES THEOREM		
	•	SUNDAY -11.04.2021		
		Doubt session		
17	April (12-13) (15)	test of section -4(first half portion)		
		test of section -4(second half portion)		
<u> </u>				

I.B. (PG) COLLEGE, PANIPAT SESSION 2020-2021

Weekly Lesson Plan (Odd Semester) Name of the Paper:- Topology

(1st Semester)

CLASS : M.Sc. (Mathematics) Previous

Name of the Teacher : Mansi Bansal

CLASS :	IVI.SC.	(iviather	hatics) P	revious

1 Definition of topological space 1 Examples of topological space 1 Examples of topological space 1 Neighbourhood system of a point and its properties 1 HOIDAY - 25.12.2020 (CHRISTMAS) 2 Neighbourhoods 1 Interior point and interior of a point 1 Interior of various topologies 1 Theorems on interior point 1 Interior as an operator and its properties 2 SUNDAY - 03.01.2021 3 Problem discussion 1 Closed set as a complement of open set 1 Limit point of a set 2 Derived set of a set 3 Derived set of a set 3 Derived set of a set					
1(22-24), (26)Examples of topological space Neighbourhood system of a point and its propertiesHOIDAY - 25.12.2020 (CHRISTMAS)SUNDAY - 27.12.2020December (28-31) January (1-2)Neighbourhoods Interior point and interior of a point Interior of various topologiesTheorems on interior point Theorems on interior point Theorems on interior point Interior as an operator and its propertiesSUNDAY - 03.01.2021SUNDAY - 03.01.2021SUNDAY - 03.01.2021Orber discussion Closed set as a complement of open set Limit point of a set Derived set of a set Derived set of a set as a union of the set and its derived points Theorems on limit pointSUNDAY - 10.01.2021					
(22-24), (26) Examples of topological space Neighbourhood system of a point and its properties HOIDAY - 25.12.2020 (CHRISTMAS) SUNDAY - 27.12.2020 Pecember (28-31) January (1-2) Neighbourhoods Interior point and interior of a point Interior of various topologies Theorems on interior point Theorems on interior point Interior as an operator and its properties SUNDAY - 03.01.2021					
HOIDAY - 25.12.2020 (CHRISTMAS) SUNDAY - 27.12.2020 A HOIDAY - 27.12.2020 SUNDAY - 27.12.2020 A Bighbourhoods Interior point and interior of a point Interior of various topologies Theorems on interior point Theorems on interior of open set Limit point of a set Derived set of a set Definition of closure of a set as a union of the set and its derived points Theorems on limit point SUNDAY - 10.01.2021 <th></th>					
SUNDAY - 27.12.2020 Neighbourhoods Interior point and interior of a point Interior of various topologies Theorems on interior point Theorems on colspan="2">Theorems on colspan="2"Theorems on colspan="2"Theorems on colspan="2"Theorems on colspan=					
2 Neighbourhoods 1nterior point and interior of a point Interior of various topologies Theorems on interior point Theorems on interior point Interior as an operator and its properties SUNDAY - 03.01.2021 Problem discussion Closed set as a complement of open set Limit point of a set Derived set of a set Definition of closure of a set as a union of the set and its derived points Theorems on limit point	HOIDAY - 25.12.2020 (CHRISTMAS)				
2 Pecember (28-31) January (1-2) Interior point and interior of a point Interior of various topologies Theorems on interior point Theorems on interior point Interior as an operator and its properties UNDAY - 03.01.2021 Problem discussion Closed set as a complement of open set Limit point of a set Derived set of a set Definition of closure of a set as a union of the set and its derived points Theorems on limit point SUNDAY - 10.01.2021					
2 December (28-31) January (1-2) Interior of various topologies Theorems on interior point Theorems on interior point Interior as an operator and its properties Interior as an operator and its properties SUNDAY - 03.01.2021 January (4-9) January Problem discussion Closed set as a complement of open set Limit point of a set Derived set of a set Derived set of a set as a union of the set and its derived points Theorems on limit point Theorems on limit point					
2 (28-31) January (1-2) Interior of various topologies Theorems on interior point Theorems on interior point Theorems on interior point Interior as an operator and its properties SUNDAY - 03.01.2021 January (4-9) January (4-9) Problem discussion Closed set as a complement of open set Limit point of a set Derived set of a set Derived set of a set as a union of the set and its derived points Theorems on limit point Theorems on limit point					
(1-2) Theorems on interior point Theorems on interior point Theorems on interior point Interior as an operator and its properties Interior as an operator and its properties SUNDAY - 03.01.2021 Problem discussion Closed set as a complement of open set Closed set as a complement of open set January Limit point of a set Derived set of a set Definition of closure of a set as a union of the set and its derived points Theorems on limit point Theorems on limit point					
Image: Second state in the second s					
SUNDAY - 03.01.2021 3 Problem discussion January (4-9) Closed set as a complement of open set Limit point of a set Derived set of a set Derived set of a set Definition of closure of a set as a union of the set and its derived points Theorems on limit point SUNDAY - 10.01.2021					
3 Problem discussion Closed set as a complement of open set Limit point of a set Derived set of a set Definition of closure of a set as a union of the set and its derived points Theorems on limit point SUNDAY - 10.01.2021					
3 January (4-9) Closed set as a complement of open set Limit point of a set Derived set of a set Definition of closure of a set as a union of the set and its derived points Theorems on limit point SUNDAY - 10.01.2021					
3 January (4-9) Limit point of a set Derived set of a set Definition of closure of a set as a union of the set and its derived points Theorems on limit point SUNDAY - 10.01.2021					
3 (4-9) Derived set of a set Definition of closure of a set as a union of the set and its derived points Theorems on limit point SUNDAY - 10.01.2021					
(4-9) Derived set of a set Definition of closure of a set as a union of the set and its derived points Theorems on limit point SUNDAY - 10.01.2021					
Theorems on limit point SUNDAY - 10.01.2021					
SUNDAY - 10.01.2021					
Adherent point of a set					
Closure of a set as set of adherent points					
4 January Properties of closure					
(11-16) Closure as an operator and its properties					
Boundary of a set					
Theorems on boundary of a set					
SUNDAY - 17.01.2021					
Dense set					
Base for topology and its characterization					
5 January (18-19) (21-23) Base for neighbourhood system					
Theorems on base for topology and neighbourhood system					
Sub-base for topology					
HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)					
SUNDAY - 24.01.2021					

		Induced topology and subspace of a topological space		
		Alternate methods of defining a topology		
6	January	Kuratowski closure operator		
	(25) (27-30)	First countable space		
		Second countable space		
		HOLIDAY - 26.01.2021 (Republic Day)		
		SUNDAY - 31.01.2021		
		Seperable space		
		Complete lattice		
_	February (1-	Problem discussion		
7	6)	Continuous function		
		Composition of continuous functions		
		Open and closed functions		
		SUNDAY - 07.02.2021		
		Homeomorphism		
		Embedding		
8	February (8-	Tychonoff product topology in terms of standard subbase		
0	13)	Projection maps		
		Characterisation of product topology as the smallest topology with projections		
		Continuity of a function from a space into product of spaces		
		SUNDAY - 14.02.2021		
		T0 ,T1 SPACE		
	February	T2,T3 Space		
9	(15) (17-20)	Hereditary property		
	(, (,	Quotent topology w.r.t. a map		
		About Hausdorffness of quotent space		
	HOID	AY - 16.02.2021 (Basant Panchami) / (Sir Chotu Ram Jayanti)		
	•	SUNDAY - 21.02.2021		
		Problem discussion		
	February	Completely regular and tychonoff space		
10	(22-26)	Hereditary properties		
		Productive properties		
		Embedding lemma		
HOIDAY - 27.02.2021 (Guru Ravidas Jayanti)				
SUNDAY - 28.02.2021				

		Embedding theorem		
		Normal and T4 spaces		
11	March (01-06)	Examples		
	(01-08)	Urysohn's lemma		
		Complete regularity of a regular normal space		
		T4 implies tychonoff space, TIETZE'S EXTENSION THEOREM		
		SUNDAY - 07.03.2021		
		Filters on a set		
	March	Collection of all filters on a set as a p.o. set		
12	(08-10) (12-13)	Finer filter		
		Ultra filter and its characterization		
		Ultra filter principle		
		HOLIDAY - 11.03.2021 (Maha Shivratri)		
		SUNDAY - 14.03.2021		
		Image of filter under a function		
		Convergence of filters		
13	March	Limit point and limit of a filter		
15	(15-20)	Continuity in terms of convergence of filters		
		Hausdrorffness anf filter convergence		
		Problem discussion		
SUNDAY - 21.03.2021				
		Compactness		
	March	Definition of a compact subset oa a compact subspace		
14	(22) (24-26)	Relation of open cover of a subset of a topological space in the sub-space with that		
		Compactness in terms of finite intersection property		
HOLIDAY - 23.03.2021 (Shaheedi Diwas/Martyrdum Day of Bhagat Singh, Rajguru & Sukhdev)				
		HOLIDAYS - 27.03.2021 to 31.03.2021 (Holi break)		
		Continuity and compact sets		
15	April	Closedness of compact subset		
	(01-03)	Hausdorff space and its consequence		
		SUNDAY -04.04.2021		
		Regularity and normality of a comact hausdorff space		
		Compactness and filter convergence		
	April	Convergence of filters in a product space		
16	(05-10)	Tychonoff product theorem using filters		
		Hausdroff Compactification		
		Stone-cech compactification		
		SUNDAY -11.04.2021		
		Problem discussion		
17	April	Revision		
	(12-13) (15)	Revision		
<u> </u>				

SESSION 2020-2021

Weekly Lesson Plan (Odd Semester)

AMCV

(1st Semester)

CLASS : M.Sc. (Mathematics) Previous

Name of the Teacher : SOURAV

Name of the Paper:-

WEEK	DATE	TOPICS		
		POWER SET INTRO		
	December	SAME		
1	(22-24) , (26)	CONVERGENCE OF POWER SERIES		
		RADIUS OF CONVERGENCE		
HOIDAY - 25.12.2020 (CHRISTMAS)				
SUNDAY - 27.12.2020				
		example based on above		
		problem discion		
2	December (28-31) January	sum product of differentibility		
2	(28-31) January (1-2)	sum function on power series		
		do		
		do		
		SUNDAY - 03.01.2021		
		property of function with derivetive		
		exp. And log function		
3	January (4-9)	power of complex number		
5		branch with analyticity		
		path in region		
		smooth path		
SUNDAY - 10.01.2021				
		simple connected region		
		multiple connected region		
4	January (11-16)	bounded variation		
-	(11-16)	total variation		
		complex integration		
		problem discion		
		SUNDAY - 17.01.2021		
		class test		
	January	cauchy goursat theorem		
5	(18-19) (21-23)	CAUCHY THEOREM FOR multiplre connected region'		
		do		
	problem discion			
HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)				
SUNDAY - 24.01.2021				

		index of winding number		
		closed curve with simple property		
6	January	cauchy intergral formula		
	(25) (27-30)	extension of above		
		propertites		
	ŀ	IOLIDAY - 26.01.2021 (Republic Day)		
SUNDAY - 31.01.2021				
		higher order derivative		
		gauss mean value theroem		
_	February (1	do		
7	6)	problem discion		
		morera's theorem		
		test		
		SUNDAY - 07.02.2021		
		cauchy's inequality		
		zero of analytics function		
	February (8	entire function		
8	13)	radious of convergence		
		liouvalle's theorem		
		problem discion		
SUNDAY - 14.02.2021				
fundamental theorem of algebra				
	F . b	taylor's thoerem		
9	February (15) (17-20)	extension of above		
	(13) (17-20)	problem discion		
		class test		
	HOIDAY - 16.02	.2021 (Basant Panchami) / (Sir Chotu Ram Jayanti)		
	SUNDAY - 21.02.2021			
		maximum modulus princple		
	P = 1	minimum miodulus principle		
10	February (22-26)	schwartz lemma		
	(22-20)	properties		
		problem discion		
	НОП	DAY - 27.02.2021 (Guru Ravidas Jayanti)		
		SUNDAY - 28.02.2021		
		singularity		
		classification		
11	March	pole of ordr		
11	(01-06)	function of order		
		laurent series		
		problem discion		
	SUNDAY - 07.03.2021			

		class test			
12	March (08-10) (12-13)	cassorati theorem			
		meromorphic function			
		poles			
		zero of meromorphic			
	L H(OLIDAY - 11.03.2021 (Maha Shivratri)			
	SUNDAY - 14.03.2021				
		the argument princple			
	March (15-20)	rouche's theorem			
		inverse of function			
13		problem discion			
		class test			
		residue			
	L	SUNDAY - 21.03.2021			
		residue of singularity			
	March (22) (24-26)	residue at simple pole			
14		residue at infinty			
		cauchy residue			
HOLIDAY -	23.03.2021 (Shahe	eedi Diwas/Martyrdum Day of Bhagat Singh, Rajguru & Sukhdev)			
	HOLIDAY - 23.03.2021 (Shaheedi Diwas/Martyrdum Day of Bhagat Shigh, Kajguru & Sukhdev) HOLIDAYS - 27.03.2021 to 31.03.2021 (Holi break)				
	April (01-03)	definte integral			
15		integral of different type			
		do			
SUNDAY -04.04.2021					
	April (05-10)	integral on trignometry fun.			
		do			
15		problem discion			
16		ple on real number			
		do			
		do			
17	April (12-13) (15)	complete revision			
		test			
		problem desion			

SESSION 2020-2021

Weekly Lesson Plan (Odd Semester)

(1st Semester) CLASS : M.Sc (Mathematics) Previous

Name of the Paper:-DIFFERENTIAL EQUATION

Name of the Teacher : MANISH KUMAR

WEEK	DATE	TOPICS		
1		Basic about differential equation		
	December	degree and order, type of differential equation		
	December (22-24) , (26)	Related examples		
		HOIDAY - 25.12.2020 (CHRISTMAS) SUNDAY - 27.12.2020		
Initial value problem				
	December (28-31) January			
2		approximation solution		
		equicontinuous set of function		
	(1-2)	Related examples		
	Γ	SUNDAY - 03.01.2021		
		Cauchy euler theorem		
	January (4-9)	Ascoli arzela theorem		
3		cauchy peano existence theorem and its corollary		
-		Lipschtiz condition		
		Related examples		
		SUNDAY - 10.01.2021		
	January (11-16)	Differential inequalties and uniquness		
		gronwell inequality		
		succesive approximation		
4		Related examples		
SUNDAY - 17.01.2021				
5	January (18-19) (21-23)	Picard lindelof theorem		
		continuation of solution		
		maximal interval of existence		
HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)				
SUNDAY - 24.01.2021				

	January	Kneser theorem				
		extension theorem				
6		theorems				
	(25) (27-30)	Related examples				
		doubts				
HOLIDAY - 26.01.2021 (Republic Day)						
		SUNDAY - 31.01.2021				
	February (1	linear differential system				
		linear homogenous system				
7		fundamental matrix				
/	6)	Related examples				
		Adjoint system				
SUNDAY - 07.02.2021						
		Reduction to smaller homogrnous system				
		non homogenous linear system				
8	February (8	variation of constant				
0	13)	Related examples				
		theorems				
		SUNDAY - 14.02.2021				
		linear system with constant coefficient				
	February	linear system with periodic coefficients				
9	(15) (17-20)	Related examples				
	(theorems				
	HOIDAY - 16.02	2.2021 (Basant Panchami) / (Sir Chotu Ram Jayanti)				
		SUNDAY - 21.02.2021				
	February (22-26)	Floquet theory				
		Related examples				
10		theorems				
		doubts				
		class test				
	НОШ	DAY - 27.02.2021 (Guru Ravidas Jayanti)				
		SUNDAY - 28.02.2021				
	March (01-06)	Higher order equations				
		linear differential equation of order n				
11		linear combinations				
**		linear depandence, independence of solution				
		wronskian theory				
SUNDAY - 07.03.2021						

12	March	necessary and sufficient condition of solution				
		Abels identity				
		Related examples				
	(08-10) (12-13)	fundamental set				
	HOLIDAY - 11.03.2021 (Maha Shivratri)					
	SUNDAY - 14.03.2021					
	March (15-20)	more wronksian theory				
		reduction of order				
13		theorems				
15		Related examples				
		variation of parameters				
		Adjoint equation				
		SUNDAY - 21.03.2021				
		Lagranges identity				
14	March (22) (24-26)	green formula				
14		linear equation of order n with constant coefficients				
		Related examples				
HOLIDAY -	23.03.2021 (Shahe	eedi Diwas/Martyrdum Day of Bhagat Singh, Rajguru & Sukhdev)				
	HOLIDA	YS - 27.03.2021 to 31.03.2021 (Holi break)				
	April (01-03)	system of differential equation				
15		dependance of solution on initial conditions				
		continuity and differentiability				
	SUNDAY -04.04.2021					
	April (05-10)	maximal and minimal solution				
		differential inequalities				
16		wintner theorem				
10		kamke theorem				
		nagumo theorem				
SUNDAY -11.04.2021						
	April (12-13) (15)	Osgood theorem				
17		Related examples				
		class test				