Weekly Lesson Plan (January 2020 - April 2020)

Name of the Paper:-**VECTOR CALCULUS**

Name of the Teacher (Section wise): Ms. GITIKA DUREJA

Class:- B.Sc. I Year

WEEK	DATE	TOPICS
		Inroduction to Vectors
1	January	Definitions and examples on Scalar Triple Product
Ţ	(1 - 4)	Properties of Scalar Triple Product
		Examples on related Topic
		SUNDAY - 05.01.2020
		Examples on related Topic
		Definitions and examples on Vector Triple Product
2	January	Examples on related Topic
2	(6-11)	Examples on related Topic
		Properties of Scalar Triple Product
		Vector Product of four vectors
		SUNDAY - 12.01.2020
		Examples on related Topic
		More Examples
2	January	Reciprocal System of Vectors : Definition and Some Results
5	(13-18)	Properties of Reciprocal System of Vectors
		Examples on related Topic
		More Examples
		SUNDAY - 19.01.2020
		Problems Discussion
		Test
А	January	Differentiation of Vectors
-	(20 -25)	Theorem on Continuity of Vectors
		Some more Theorems
		Related Examples
January -		
26.01.2020		
		Related Examples
		Curves In Space
5	January (27- 31)	Related Examples
	February (1)	Related Examples
		Related Examples
		Total differentials of Vectors
		SUNDAY - 02.02.2020
		Rules for finding Partial Derivative of Vectors
		Related Examples
6	February	The vector Differential Operator
-	(3 -8)	Gradient of a Scalar Field
		Properties of Gradient
		Related Examples

SUNDAY - 09.02.2020			
		Related Examples	
		Problems Discussion	
7	February	Examples on Level Surfaces	
/	(10 -15)	Divergence of a Vector function	
		Properties of Divergence	
		Related Examples	
		SUNDAY - 16.02.2020	
		Related Examples	
		Curl of a Vector Point Function	
Q	February	Properties of Curl	
0	(17-22)	Related Examples	
		Related Examples	
		Laplacian Operator, Harmonic Function	
		SUNDAY - 23.02.2020	
		Related Examples	
		Problems Discussion	
9	February	Test	
5	(24-29)	Curvilinear Co-ordinates	
		Arc length, Volume Element and area element	
		Arc length, Volume Element and area element	
		SUNDAY - 01.03.2020	
		Gradient, divergence and curl in terms of curvilinear co-ordinates	
		Gradient, divergence and curl in terms of curvilinear co-ordinates	
10	March (02 -07)	Spherical Co-ordinates	
	,	Spherical Co-ordinates	
		Cylinderical Co-ordinates	
Cylinderical Co-ordinates			
		SUNDAY - 08.03.2020	
		Holi Vacations	
		Holl Vacations	
11	March (09 -14)		
		Holi Vacations	
		Holi Vacations	
		SUNDAY - 15.03.2020	
		vector integration	
		Some Results for Integration	
12	March (16 -21)	Related Examples	
		Line integrals Related Examples	
		Polatod Examples	
		Related Examples	
	March (23-28)	Problems Discussion	
13			
		Related Examples	
		Related Examples	

SUNDAY - 29.03.2020			
14		Volume Integrals	
		Volume Integrals	
	March (30 -31)	Related Examples	
14	April (1-4)	Related Examples	
		Related Examples	
		Problems Discussion	
		SUNDAY - 05.04.2020	
		Test	
		Gauss's divergence Theorem	
15	April (06 -11)	Gauss's divergence Theorem	
15	//p/ii (00 11)	Some imp Deductions	
		Some imp Deductions	
		Related Examples	
		SUNDAY - 12.04.2020	
		Related Examples	
	April (12-18)	Related Examples	
16		Related Examples	
10	//p/ii (15 10)	Problems Discussion	
		Test	
		Green's Theorem	
		SUNDAY - 19.04.2020	
		Related Examples	
	April (20-25)	Related Examples	
17		Related Examples	
17	/ipin (20 23)	Problems Discussion	
		Stoke's Theorem	
		Stoke's Theorem in Cartesian form	
SUNDAY - 26.04.2020			
18		Related Examples	
	Anril (27-30)	Related Examples	
	Aprii (27-30)	Problems Discussion	
		Test	

Weekly Lesson Plan (January 2020 - April 2020)

Name of the Paper:- Inorganic chemirtry

Name of the Teachers (Section wise): Prof. Shilpa

Class: B.Sc. I Year (A)

WEEK	DATE	TOPICS			
	January	Hydrogen Bonding and Van der Waals forces			
1		Hydrogen Bonding – Definition, types, effects of hydrogen bonding on			
	(1-4)	properties of substances, application			
		SUNDAY - 05.01.2020			
2	January	Brief discussion of various types of Van der Waals forces			
2	(6-11)				
		SUNDAY - 12.01.2020			
		Metallic Bond and semiconductors			
3	January				
5	(13-18)	Metallic bond – Qualitative idea of valence bond and Band theories of metallic			
		bond (conductors, semiconductors, insulators).			
		SUNDAY - 19.01.2020			
4	January	Semiconductors – Introduction, types and applications.			
-	(20 -25)	discussion on application of above topic			
	1	January - 26.01.2020			
		s-Block elements			
5	January (27- 31)	Comparative study of the elements including diagonal relationship, Anomalous			
	February (1)	had a star of the birth of Dan differences and the state of the state of the star			
		behaviour of Lithium and Beryllium compared to other elements in the same			
	group,				
		SUNDAY - 02.02.2020			
6	February (3 -8)	salient reactives of hydrides, oxides, flaides, flydroxides (methods of			
6					
		Chemistry of Noble Gases			
	February				
7	(10 -15)	General physical properties, low chemical reactivity, chemistry of xenon, structure			
		and bonding in fluorides, oxides and oxyfluorides of xenon.			
		SUNDAY - 16.02.2020			
		p-Block elements:			
	February				
8	, (17 -22)	Electronic configration, atomic and ionic size, matallic character, melting point			
	. ,	class test			
SUNDAY - 23.02.2020					
	Fobr esser :				
9	February (24-29)				
		ionization energy, electron affinity, electronegativity, inert pair effect and diagonal			
		relationship.			

	SUNDAY - 01.03.2020			
10		Boron family (13th group):		
	March (02 -07)	Diborane: Preparation, properties and structure (as an example of electron		
		deficient compound and multicenter bonding),		
		SUNDAY - 08.03.2020		
11	March (09 -14)			
	March (09-14)	HOLI BREAK		
		SUNDAY - 15.03.2020		
12	March (16-21)	Borazine chemical properties and		
12		structure, relative strength of Trihalide of Boron as lewis acids, structure of		
		aluminium(III) chloride.		
		SUNDAY - 22.03.2020		
ſ		Carbon family and Nitrogen family (14th and 15th group):		
13	March (23-28)	Catenation, Carbides, fluoro carbons, silicates (structural aspects).		
		Oxides: Structure of oxides of nitrogen and phosphorus,		
		SUNDAY - 29.03.2020		
	March (30 -31) April (1-4)	Oxyacids : Structure and		
14				
14		relative acid strength of oxy acids of nitrogen and phosphorus, structure of white		
		and Red phosphorus.		
		SUNDAY - 05.04.2020		
15	April (06 -11)	Oxygen family (16th group):		
	/(piii (00 ±±)	Oxy acids of sulphur – structure and acidic strength,		
SUNDAY - 12.04.2020				
16	April (13-18)	Hydrogen Peroxide –		
10	April (13-10)	properties and uses.		
SUNDAY - 19.04.2020				
17	April (20-25)	Halogen family (17th group):		
17	April (20 23)	Interhalogen compounds (their properties and structures)		
		SUNDAY - 26.04.2020		
		Hydra and oxy acids of		
18	April (27-30)			
		chlorine – structure and comparison of acid strength, cationic nature of lodine		

Weekly Lesson Plan (January 2020 - April 2020)

Name of the Paper:- English

Class: B.Sc. I Year

Name of the Teachers (Section wise): vandana Rohal

WEEK	DATE	ΤΟΡΙϹS	
		Introduction to the syllabus	
	January	Introduction to the syllabus	
1	(1 - 4)	Introduction to the syllabus	
		Introduction to the syllabus	
		SUNDAY - 05.01.2020	
		ch-1 our civilization introduction	
		ch-1 our civilization introduction	
2	January	ch-1 our civilization introduction	
_	(6-11)	ch-1 our civilization introduction	
		ch-1 our civilization introduction	
		ch-1 our civilization introduction	
	SUNDAY - 12.01.2020		
		ch-1 question answer	
		ch-1 question answer	
3	January (13-18)	ch-1 question answer	
5		ch-1 question answer	
		ch-1 question answer	
		ch-1 question answer	
SUNDAY - 19.01.2020			
		ch-2 it's question time summary	
		ch-2 it's question time summary	
л	January (20 -25)	ch-2 it's question time summary	
		ch-2 it's question time summary	
		ch-2 it's question time summary	
		ch-2 it's question time summary	

January - 26.01.2020				
		ch-2 question answer		
		ch-2 question answer		
E	January (27- 31)	ch-2 question answer		
5	February (1)	ch-2 question answer		
		ch-2 question answer		
		ch-2 question answer		
		SUNDAY - 02.02.2020		
		translation from English to hindi		
		translation from English to hindi		
G	February	translation from English to hindi		
Ū	(3 -8)	translation from English to hindi		
		translation from English to hindi		
		translation from English to hindi		
		SUNDAY - 09.02.2020		
		ch-3 an interview with Christian Barnard summary		
		ch-3 an interview with Christian Barnard summary		
7	February	ch-3 an interview with Christian Barnard summary		
,	(10 -15)	ch-3 an interview with Christian Barnard summary		
		ch-3 an interview with Christian Barnard summary		
		ch-3 an interview with Christian Barnard summary		
		SUNDAY - 16.02.2020		
		ch-3 question answer		
		ch-3 question answer		
R	February	ch-3 question answer		
0	(17-22)	ch-3 question answer		
		ch-3 question answer		
		ch-3 question answer		
	SUNDAY - 23.02.2020			
		ch-4 untouchability and the caste system summary		
		ch-4 untouchability and the caste system summary		
٥	February (24-29)	ch-4 untouchability and the caste system summary		
5		ch-4 untouchability and the caste system summary		
		ch-4 untouchability and the caste system summary		
		ch-4 untouchability and the caste system summary		

SUNDAY - 01.03.2020					
		precis writing			
		precis writing			
10	March (02, 07)	precis writing			
10	March (02 -07)	precis writing			
		precis writing			
		precis writing			
		SUNDAY - 08.03.2020			
		ch-5 inhumanisation of war summary			
		ch-5 inhumanisation of war summary			
11	March (00, 14)	ch-5 inhumanisation of war summary			
11	March (09 -14)	ch-5 inhumanisation of war summary			
		ch-5 inhumanisation of war summary			
		ch-5 inhumanisation of war summary			
	SUNDAY - 15.03.2020				
	March (16 -21)	ch-4 question answer			
		ch-4 question answer			
12		ch-4 question answer			
12		ch-4 question answer			
		ch-4 question answer			
		ch-4 question answer			
		SUNDAY - 22.03.2020			
		ch-5 question answer			
		ch-5 question answer			
13	March (22,28)	ch-5 question answer			
	March (23-28)	ch-5 question answer			
		ch-5 question answer			
		ch-5 question answer			

SUNDAY - 29.03.2020			
		letter writing	
		letter writing	
14	March (30 -31)	letter writing	
14	April 1-4)	letter writing	
		letter writing	
		letter writing	
		SUNDAY - 05.04.2020	
		ch-6 seven types of gender equality summary	
		ch-6 seven types of gender equality summary	
15	April (06-11)	ch-6 seven types of gender equality summary	
12	April (00 - 11)	ch-6 seven types of gender equality summary	
		ch-6 seven types of gender equality summary	
		ch-6 seven types of gender equality summary	
		SUNDAY - 12.04.2020	
		ch-6 question answer	
		ch-6 question answer	
16	April (12, 19)	ch-6 question answer	
10	Aprii (15-16)	ch-6 question answer	
		ch-6 question answer	
		ch-6 question answer	
		SUNDAY - 19.04.2020	
		grammar revision	
		grammar test	
17	April (20-25)	grammar revision	
17	April (20-23)	grammar test	
		grammar revision	
		grammar test	
SUNDAY - 26.04.2020			
18		lesson revision	
	April (27-30)	lesson revision	
		lesson test	
		lesson test	

Weekly Lesson Plan (January 2020 - April 2020)

Name of the Paper:- Logical Organisation

Class: B.Sc. I Year Sem-2

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Name of the Teachers (Section wise): Deepty juneja

WEEK	DATE	TOPICS
		Number System
1	January	Introduction of Number System, Decimal Number System
-	(1 - 4)	
		SUNDAY - 05.01.2020
		Conversion of Decimal Number to Binary Number
		Conversion of Fractional decimal number to Binary Number
2	January	Octal Number System, Conversion of Decimal Number System to Octal Number System
	(6-11)	
		SUNDAY - 12.01.2020
		Conversion of Octal Number into Binary & vice Versa
3	January (13-18)	Hexadecimal Number System, Conversion of decimal number into hexadecimal & vice versa
		(Binary Arithmetic) Binary Addition & Binary Subtraction
		SUNDAY - 19.01.2020
		Complement Representation of Number
		Binary Subtraction by Complement Method
4	January	Comparisons between 1's & 2's Complement
	(20-25)	

January - 26.01.2020			
5	January (27- 31) February (1)	Representation of Negative Numbers into Complement system BCD Binary Division, Fixed Point representation of Number	
		SUNDAY - 02.02.2020	
6	February (3 -8)	BCD Codes Error Detecting & Correcting Codes ASCII , EBCDIC	
	[SUNDAT - 09.02.2020	
7	February (10 -15)	Assignment I Introduction Of Boolean Algebra & postulates Boolean Functions	
		SUNDAY - 16.02.2020	
8	February (17-22)	Truth Tables, Canonical & standard form of Boolean functions Canonical & standard form of Boolean functions Venn Diagram	
SUNDAY - 23.02.2020			
9	February (24-29)	K-Map Basic Gates-AND, OR , NOT Universal Gates NAND,NOR	

	SUNDAY - 01.03.2020		
		XOR, XNOR etc.	
		Assignment II	
10	March (02 -07)	Conditional Test	
10		Half Adder, Full Adder	
		SUNDAY - 08.03.2020	
11	March (09 -14)	HOLI BREAK	
		SUNDAY - 15.03.2020	
		Half Subtractor, Full Subtractor	
		Encoder,Decoder	
12	March (16 -21)	Multiplexer	
		SUNDAY - 22.03.2020	
		Demultiplexer, Comparator	
		Code Converter	
13	March (23-28)	Introduction & characteristics of Sequential logic, Introduction of Flip Flop, Clocked SR	
		D- type , JK	
		T- type, Master & Slave	
		SUNDAY - 29.03.2020	
		State Table State Diagram	
	March (30 -31)	Registers, SISO, PIPO etc.	
14	April 1-4)		

SUNDAY - 05.04.2020				
15	April (06 -11)	Synchronize Counters Asynchronies Counters Revision		
		SUNDAY - 12.04.2020		
16	April (13-18)			
		SUNDAY - 19.04.2020		
17	April (20-25)			
	SUNDAY - 26.04.2020			
18	April (27-30)			

Weekly Lesson Plan (January 2020 - April 2020)

Name of the Paper:- Number Theory and Trignometry Class : B.Sc. Ist Year

Name of the Teachers (Section wise): Dr. Arpana Garg (Sec- A,C)

WEEK	DATE	TOPICS	
1	January	De Moivre's Theorem	
		Its Examples and Problems	
	(1 - 4)	Disscusion	
		SUNDAY - 05.01.2020	
		Roots of a Complex Number	
		Theorems Based on Roots of a complex Number	
2	January	Its Examples and Problems	
-	(6-11)	Solution Of Equations	
		Problems	
		Expansion of Trignometric Functions	
		SUNDAY - 12.01.2020	
		Expansion of Trignometric Functions	
		Formation of Equations	
3	January	Its Examples and Problems	
5	(13-18)	Expansion of Powers of Trignometric Functions	
		Expansion of Powers of Trignometric Functions	
		Problems and Test of the Chapter	
		SUNDAY - 19.01.2020	
		Exponential Function of complex Variable	
	January (20 -25)	Problems and discussion	
4		Circular Function of a complex variable	
•		Hyperbolic function	
		Problems	
		Seperation of Functions into real and imaginary part	
		January - 26.01.2020	
		Seperation of Functions into real and imaginary part	
		Logrithmic Function	
5	January (27 -31)	Problems	
Ū.	February (1)	Exponential Function	
		Problems	
SUNDAY - 02.02.2020			
		Inverse Trignometry Function	
		Inverse Trignometry Function	
6	February	Inverse Hyperbolic Function	
-	(3 -8)	Problems	
		Gregory's Series	

SUNDAY - 09.02.2020			
		Summation of series	
7		Summation of series	
	February	Method of Difference	
,	(10 -15)	C+iS method of Summation	
		SUNDAY - 16.02.2020	
		Problems and Discussion	
		Types of C+iS Method Problems	
8	February	Problem Discussion	
	(17-22)	Test	
		SUNDAT - 23.02.2020	
		Principle of Mathematical Induction	
	February	Evamples	
9	(24-29)	Problems	
	(= - = = = = =)	Division Algorithm	
		SUNDAY - 01.03.2020	
		Division Algorithm	
		Examples	
10	March (02 -07)	Fundamental Theorem of Arithmetic	
10	March (02 -07)	Examples	
		Congruences	
	-	SUNDAY - 08.03.2020	
		Holi Break	
		Holi Break	
11	March (09 -14)	Holi Break	
		SUNDAY - 15.03.2020	
		Linear Congruence	
		Examples	
		Problems	
12	March (16 -21)	Diophantine Equation	
		Examples	
		Problems	
		SUNDAY - 22.03.2020	
		Fermat Theorem	
		Examples	
13	March (23-28)	Problems	
		Wilsons Theorem	
		Examples	
		Problems	

	SUNDAY - 29.03.2020			
		Eulers Function		
		Examples		
14	March (30 -31)	Problems		
14	April 1-4)	Residue System		
		Problems		
	T	SUNDAY - 05.04.2020		
		Chinese Remainder Theorem		
		Examples		
15	April (06 -11)	Problems		
		Quadratic Residue		
		Theorems		
		SUNDAY - 12.04.2020		
		Examples		
	April (13-18)	Problems		
16		Quadratic Reciprocality Law		
		Examples		
		Problems		
SUNDAY - 19.04.2020				
		Some Functions of Number Theory		
17	April (20-25)	Examples		
		Antimetic Functions		
SUNDAY 26.04.2020				
		Mobius Function		
18	April (27-30)	Examples		

Weekly Lesson Plan (January 2020 - April 2020)

Name of the Paper:- ORGANIC CHEMISTRY

CLASS: B.Sc I Year

Name of the Teachers (Section wise): PROF.(RANJANA SHARMA)

WEEK	DATE	TOPICS		
1	January (1 - 4)	Alkene s Nomenc lature of alkenes, mechanisms of dehydration of alcohol s and dehydrohalogenation of alkyl halide.		
		SUNDAY - 05.01.2020		
2	January	The Saytzeff rule,		
	(6-11)	Hofmann elimination, physical proper ties and relative stabilities of		
		alkenes.		
		Sunday-12.01.2020		
3	January	Chemica I reactions of alkenes [®] mechanisms involved in		
5	(13-18)	hydrogenation, electrophilic and free radical additions,		
		Markownikoff's rule		
		SUNDAY - 19.01.2020		
л	January (19-25)	hydroboration–oxidation, oxymercurationreduction,		
-		ozonolysis, hydration, hydroxylation and oxidat ion with		
		KMnO4 .		
	January - 26.01.2020			
E	January	Arenes and Aromaticity		
	(26-1)	Nomenc lature of benzene deriva tives : Aromatic nucleus and side		
		chain.		

SUNDAY - 02.02.2020				
6	February (2-8)	Aromaticity: the Huckel rule, aroma tic ions, annulenes up to 10		
		carbon atoms,		
		SUNDAY - 09.02.2020		
7	February	aromatic, anti-aromatic and non-aromatic		
,	(10 -15)	compounds.		
		class test		
		SUNDAY - 16.02.2020		
8	February (17-22)	Aromatic electrophil ic substitut ion 🛛 general pattern of the		
	, <i>,</i>	mechani sm, mechans im of nitration, halogenation,		
		SUNDAY - 23.02.2020		
9	February (23-29)	sulphonation,		
		and Friedel-Crafts reaction. Energy profile diagrams.		
	SUNDAY - 01.03.2020			
	march(2-7)			
10		Activating ,		
10		deactivating substituents and orientation.		
		question discussion with students		
		SUNDAY - 08.03.2020		
11	March (09 -14)			
	iviai (U9 -14)	HOLY BREAK		
	SUNDAY - 15.03.2020			
		Dienes and Alkynes		
12	March (16 -21)	Nomenc lature and classification of dienes: isolated, conjugated and		
		cumulated dienes		
		SUNDAY - 22.03.2020		
13	March (23-28)	Structur e of butadiene. Chemical reactions 🛛 1.2 and 1.4 additions (Electrophilic & free radical mechanism).		
15		Diels-Alder reaction,		

SUNDAY - 29.03.2020				
14	March (30 -31)			
		Nomenclature, structure and bonding in		
	r ,	alkynes. Methods of formation.		
		SUNDAY - 05.04.2020		
15	April (06-11)	Chemical reactions of alkynes,		
12	April (06 -11)	acidity of alkynes. Mechanism of e lectrophilic and nucleophilic		
		addition reactions, hydroboration-oxidation of alkynes.		
		SUNDAY - 12.04.2020		
16	April (13-18)	Alkyl and Aryl Halides		
10		Nomenc lature and classes of alkyl halides, methods of formation,		
		chemical reactions.		
SUNDAY - 19.04.2020				
17	April (20.25)	Mechanisms and stereochemistry of		
17	Aprii (20-25)	nucleophilic substitution reactions of alkyl halides, SN2 and SN1		
		reactions with energy profile diagrams.		
SUNDAY - 26.04.2020				
		Methods of formation and reactions of a ryl halides, The additioneliminat		
		ion and the elimination-addition mechanisms of		
10	April (27.20)	nucleophilic aromatic substitution rea ctions.		
10	Aprii (27-30)	Relative reactivitie s of alkyl halides v s allyl, vinyl and aryl		
		halide		

Weekly Lesson Plan (January 2020 - April 2020)

Name of the Paper:- Physical chemistry Class : B.Sc. First year

Name of the Teachers (Section wise): Prof. Vikram Kumar

WEEK	DATE	TOPICS			
1	January	Kinetics			
1	(1 - 4)	Rate of reaction, rate equation and its types			
		SUNDAY - 05.01.2020			
	le no como	factors influencing			
2	January (6-11)	the rate of a reaction – concentra tion, temperature, pressure,			
		solvent, light, catalyst.			
		SUNDAY - 12.01.2020			
2	January	Order of a reaction, integrated r ate			
5	(13-18)	expression for zero order,			
	SUNDAY - 19.01.2020				
Δ	January	first order, second and third order			
-	(20 -25)	reactions			
		January - 26.01.2020			
5	January (27- 31) February (1)	Half life period of a reaction.			
5		numerical problems based on half life period			
		SUNDAY - 02.02.2020			
6	February (3 -8)	Effect of temperature on			
Ū		the rate of reaction – Arrhenius equat ion.			
SUNDAY - 09.02.2020					
7	February	Theories of reaction rate			
7	(10 -15)	 Simple collision theory for unimolecular collision 			
		SUNDAY - 16.02.2020			
0	February	Transition			
0	(17-22)	state theory of bimolecular reactions.			

SUNDAY - 23.02.2020			
		Electrochemistry	
9	February (24-29)	Electrolytic conduction,	
	(- · -•)		
		SUNDAY - 01.03.2020	
		factors aff e cting ele ctrolytic conduct ion,	
10	March (02 -07)	specific conductance, molar conductance, equivalent conductanc e	
		and relation among them, their variation with concentration	
		SUNDAY - 08.03.2020	
11	March (09 -14)	holi break	
	<u> </u>	SUNDAY - 15.03.2020	
		Arrhanius theory of ionization	
12	March (16 -21)	Armenius theory of ionization,	
12	March (22, 28)	SONDAT - 22.03.2020	
13	March (23-28)	Ostwald's Dilution Law + class test	
		SUNDAY - 29.03.2020	
	March (30 - 31)	Debye-	
14	April 1-4)	Huckel – Onsager's equation for strong electrolytes (elementary	
		treatment only)	
		SUNDAY - 05.04.2020	
15	April (06 -11)	Applica tion of Kohlr ausch's Law in calculation of	
		conductance of weak electrolytes at infinite dilution.	
SUNDAY - 12.04.2020			
	April (13-18)	Applications	
16		of conductivity measurements: determinat ion of degree of	
		dissociation,	
		SUNDAY - 19.04.2020	
. –		determination of Ka of acids determination of	
17	April (20-25)	solubility product of sparingly soluble salts, conduc tometric	
		titrations. Concepts of pH and pKa	
		SUNDAY - 26.04.2020	
		Buffer solution, Buffer action	
18	April (27-30)	Henderson – Hazel equation. Buffer mechanism of huffer action	
		Henderson – Hazel equation, Buffer mechanism of buffer action.	

Weekly Lesson Plan (January 2020 - April 2020)

Name of the Paper:- Programming in C

Class:-BSC I Year Sem-2

Name of the Teachers (Section wise): Tanu Baweja

WEEK	DATE	TOPICS	
		Overview of C;History,Imoortance and Structure of C program	
1	January	Elements of C;Character set,Identifiers and Keywords.	
L	(1 - 4)		
		SUNDAY - 05.01.2020	
		Data Types;Constants and Variables	
		Assignment Statement ,Symbolic Statements.	
2	January		
	(6-11)		
		SUNDAY - 12.01.2020	
		Input/Output;Unformatted and formatted I/O function	
		Input function and Output function	
3	January		
	(15-16)		
	-	SUNDAY - 19.01.2020	
		Input and output function	
		Operators and Expressions:Operators:Arithmetic,Relational,Logical,	
4	January (20 -25)	Bitwise etc.	
	(20 23)		
January - 26.01.2020			

		Arithmetic Expressions; Evaluation of arithmetic expressions, Type casting		
		and conversion, operator hierarchy and associativity		
E	January			
5	February (1)			
	<u> </u>			
		SUNDAY - 02.02.2020		
	ĺ	Decision making and branching:Decision making with IF statement, IF-ELSE		
		statement,Nested IF statement,		
6	February			
	(3 -8)			
		SUNDAY - 09.02.2020		
		ELSE-IF ladder,Switch statement,GOTO statement.		
		Revision of statements		
7	February	Assignment1		
	(10-13)			
SUNDAY - 16.02.2020				
		Decision Making and Loo[ping;For,While,Do-While,jump in loops,		
		Break,Continue statement		
8	February (17-22)			
	(1,,			
		50NDAT - 25.02.2020		
		Functions; Definnitions, prototype, passing parameters, recursion		
		Assignment 2		
9	February (24-29)			

	SUNDAY - 01.03.2020		
		torage class.Storage classes in c;Auto,extern,register and static s	
		scope of class	
10	March (02 -07)		
10			
		SUNDAY - 08.03.2020	
11	March (09 -14)	HOLI BREAK	
	, , , , , , , , , , , , , , , , , , ,		
		SUNDAY - 15.03.2020	
		scope of class,storage of class &lifeline	
		Conditinal Test	
12	March (16 -21)		
		SUNDAY - 22.03.2020	
		Arrays;Definitions,types,initializing and processing an array	
		Problems discussion	
13	March (23-28)		
		SUNDAY - 29.03.2020	
		Revision	
		Revision	
14	March (30 -31)	Revision	
	(ד ב יייקי <i>י</i>		

SUNDAY - 05.04.2020					
15	April (06 -11)				
SUNDAY - 12.04.2020					
16	April (13-18)				
SUNDAY - 19.04.2020					
17	April (20-25)				
	SUNDAY - 26.04.2020				
18	April (27-30)				

Weekly Lesson Plan (January 2020 - April 2020)

Name of the Paper:- Ordinary Differential Equations Name of the Teachers (Section wise): Ms. Srishti Jindal Class: B.Sc.-1st Year

TOPICS WEEK DATE Exact Differential Equations, Introduction to Differential Equations, Types of Differential Equations, Formation of Differential Equations, Geometrical January 1 (1 - 4)Meaning, Theorems and Questions based on Formation of Differential Equations. SUNDAY - 05.01.2020 Theorems based on Exact Differential Equations, Definition of Integrating Factor, Rules for finding Integrating Factor and problems based on it, January Finding Integrating Factor by Inspection, Different Methods for Solving 2 (6-11)Exact Differential Equations and Questions based on it and Discussion of Problems. SUNDAY - 12.01.2020 Introduction to Equations of First Order but not of First Degree and Theorems based on it, Methods of solving Equations of First Order with degree higher than one, Solution of Equations solvable for x, Methods of solving equations January 3 (13-18)solvable for y and problems based on it. SUNDAY - 19.01.2020 Introduction to Lagrange's Equation and method for solving such Equations, Introduction to Clairaut's Equation and method for solving such Equations, Januarv Equations reducible to Clairaut's form and problems based on it, 4 (20 - 25)singular Solution, Discriminant, Questions related to p-Discriminant and c-Discriminant and Discussion of Problems. January - 26.01.2020 Introduction to Orthogonal Trajectories, Orthogonal Trajectories in Cartesian Co-ordinates, Methods for finding Orthogonal Trajectories in January Cartesian Co-ordinates, Orthogonal Trajectories in Polar Co-ordinates, 5 (27 - 31)Methods for finding Orthogonal Trajectories in Polar Co-ordinates and February (1) Questions based on it and Discussion of Problems. SUNDAY - 02.02.2020 Introduction to Linear Differential Equations with Constant Coefficients, Differential Operator, Complete solution of Linear Differential Equations, February Auxiliary Equations, Methods for finding roots of Auxiliary Equations and 6 (3 - 8) finding Complete solution of Linear Differential Equations, Inverse operator, Theorems based on Linear Differential Equations. SUNDAY - 09.02.2020 Problems based on finding roots of Auxiliary Equations and finding Complete solution of Linear Differential Equations, Introduction to the February concept of Particular Integral and discussion of different methods of finding 7 (10 - 15)Particular Integral, Questions based on finding solutin of Linear Differential

and Discussion of Problems.

SUNDAY - 16.02.2020				
		Introduction to Homogeneous Linear Differential Equations, Discussion		
		of methods of solving Homogeneous Linear Differential Equations,		
8	February	Questions based on solution of Homogeneous Linear Differential Equations		
Ũ	(17-22)	and Discussion of Problems.		
		SUNDAY - 23.02.2020		
		Equations reducible to Homogeneous Linear form and Discussion		
	F abricania	of methods of solving Equations reducible to Homogeneous Linear form,		
9	February (24-29)	Questions based on it and Discussion of Problems.		
		SUNDAY - 01 03 2020		
		Definitin of Linear Differential Equations of Second order and its examples		
		Solution of Linear Differential Equations of Second order and its examples,		
		dependent variable when an integral included in the complementary function		
10	March (02 -07)	is known and questions based on it, solutin of such equations by removing		
		first derivative and changing the dependent variable and problems related		
		to it.		
	<u> </u>	SUNDAY - 08.03.2020		
		Holi Vacations		
		Holi Vacations		
	Manak (00, 14)	Holi Vacations		
11	March (09 -14)	Holi Vacations		
		Holi Vacations		
		Holi Vacations		
		SUNDAY - 15.03.2020		
		Solution of Linear Differential Equations of Second order by changing the		
	March (16 -21)	independent variable and problems related to it and Discussion of		
12		Problems.		
		Introduction to the method of Variation of Parameters and questions based		
		on it.		
		SUNDAY - 22.03.2020		
		Solution of Linear Differential Equations of Second order by the method of		
	March (23-28)	andetermined coefficients, different ways of finding solution of these		
13		equations, questions based of it and Discussion of Problems.		
		SUNDAY - 29.03.2020		
		Introduction to Ordinary Simultaneous Differential Equations- Definition		
		and Examples, Methods of solving Simultaneous Differential Equations		
14	March (30 -31)			
14	March (30 -31)	with constant coefficients and questions related to it, Solution of		
	March (30 -31) April 1-4)	with constant coefficients and questions related to it, Solution of Simultaneous Differential Equations using Differential Operator and problems		
	March (30 -31) April 1-4)	with constant coefficients and questions related to it, Solution of Simultaneous Differential Equations using Differential Operator and problems based on it.		
	March (30 -31) April 1-4)	with constant coefficients and questions related to it, Solution of Simultaneous Differential Equations using Differential Operator and problems based on it.		
	March (30 -31) April 1-4)	with constant coefficients and questions related to it, Solution of Simultaneous Differential Equations using Differential Operator and problems based on it. SUNDAY - 05.04.2020		
	March (30 -31) April 1-4)	with constant coefficients and questions related to it, Solution of Simultaneous Differential Equations using Differential Operator and problems based on it. SUNDAY - 05.04.2020 Solution of Simultaneous Differential Equations using Method of		
	March (30 -31) April 1-4)	with constant coefficients and questions related to it, Solution of Simultaneous Differential Equations using Differential Operator and problems based on it. SUNDAY - 05.04.2020 Solution of Simultaneous Differential Equations using Method of Differentiation, Discussion of some other methods for solving Simultaneous		
15	March (30 -31) April 1-4) April (06 -11)	with constant coefficients and questions related to it, Solution of Simultaneous Differential Equations using Differential Operator and problems based on it. SUNDAY - 05.04.2020 Solution of Simultaneous Differential Equations using Method of Differentiation, Discussion of some other methods for solving Simultaneous Differential Equations and questions related to it, Solution of Simultaneous		
15	March (30 -31) April 1-4) April (06 -11)	with constant coefficients and questions related to it, Solution of Simultaneous Differential Equations using Differential Operator and problems based on it. SUNDAY - 05.04.2020 Solution of Simultaneous Differential Equations using Method of Differentiation, Discussion of some other methods for solving Simultaneous Differential Equations and questions related to it, Solution of Simultaneous Differential Equations using Method of finding the second integral with the		

SUNDAY - 12.04.2020				
16	April (13-18)	Total Differential Equations- Definition and Examples, Theorem for the		
		Integrability of Total Differential Equations and questions based on it,		
		Concept of Condition for Exactness, Solution of Total Differential Equations		
		by using method of inspection and problems related to it.		
SUNDAY - 19.04.2020				
17	April (20-25)	Solution of Total Differential Equations by regarding one variable as constant		
		out of three variables and questions based on it, Method for solving		
		Homogeneous Equations and problems related to it.		
SUNDAY - 26.04.2020				
18	April (27-30)	Solution of Total Differential Equations by using method of Auxiliary Equation		
		and Discussion of Problems.		
		Revision.		