I.B. (PG) COLLEGE, PANIPAT
(SESSION 2019-20)

Weekly Lesson Plan (January 2020 - April 2020)

Name of the Paper:- Elements of Mathematical Foundations Class : B.C.A 1st year

Name of the Teachers (Section wise):Ms. Soniya

WEEK	DATE	TOPICS
1	January (1 - 4)	Matrix,order of matrix,types of matrix
		Basic operations on matrices
		Properties of addition and multiplication of matrix
		Test
SUNDAY - 05.01.2020		
2	January (6-11)	Multiplication of matrices and their properties
		Problem disscussion
		Determinant of matrix
		Minors and cofactors
		Singular and non singular of matrix,transpose of matrix
		Properties of transpose matrix
SUNDAY - 12.01.2020		
3	January (13-18)	Adjoint of matrix
		Properties of adjoint of matrix
		Inverse of square matrix and related theorems
		Symmetric,skew symmetric matrices
		Hermition, skew hermition matrices
		Problem disscussion
SUNDAY - 19.01.2020		
4	January (20 -25)	Test
		Sub matrix and Rank of a matrix
		Elementary operations
		Equivalent matrices and related theorems
		Row and column echelon matrix
		Problem disscussion
January - 26.01.2020		
5	January (27- 31) February (1)	Test
		Reduction of a matrix into tringular form
		Related theorems based upon triangular form
		Normal form of a matrix
		Theorems based on normal form of matrix
		Using elementary operation find inverse of matrix
SUNDAY - 02.02.2020		
6	February (3 -8)	Problem disscussion
		Test
		To calculate P and Q
		Solution of system of linear non-homogeneous equation using inverse
		Solution of system of linear non-homogeneous equation using inverse
		Related theorems based upon non homogeneous equation

SUNDAY - 09.02.2020		
7	February (10 -15)	Problem disscussion
		Test
		Solution of system of linear homogeneous equation using inverse
		Solution of system of linear homogeneous equation using rank
		Solution of system of linear homogeneous equation using rank
		Problem disscussion
SUNDAY - 16.02.2020		
8	February (17-22)	Solution of system of linear non-homogeneous equation using rank
		Solution of system of linear non-homogeneous equation using rank
		Test
		Characteristic equation of a square matrix
		Cayley-Hamilton theorem
		Eigen values and eigen vector
SUNDAY - 23.02.2020		
9	February (24-29)	Eigen values and eigen vector of symmetric matrix
		Eigen values and eigen vector of skew symmetric matrix
		Problem disscussion
		Test
		Eigen values and eigen vector of hermition matrix
		Diagonalization of a sq. matrix
SUNDAY - 01.03.2020		
10	March (02 -07)	Diagonalization of a sq. matrix
		Logicl statements,Truth table,simple and compound statements.
		Negation of compound statements,implication
		Conditional statement,variants of conditional
		biconditional statements,argument
		Joint denial,Tautologies
SUNDAY - 08.03.2020		
11	March (09 -14)	**Holi Vacations**
		Holi Vacations
		Holi Vacations
		Holi Vacations
		Holi Vacations
		Holi Vacations
SUNDAY - 15.03.2020		
12	March (16 -21)	Problem disscussion
		Test
		logical equivalence,contradiction
		Law of logic
		Law of logic
		Quantifiers,universal quantifiers
SUNDAY - 22.03.2020		
13	March (23-28)	Existential quantifiers,negation of statements with quantifiers
		Problem disscussion
		Test
		Principle of mathematics induction
		Principle of mathematics induction

SUNDAY - 29.03.2020		
14	March (30 -31) April 1-4)	Problem disscussion
		Test
		Binary operation,composite table
		Properties of binary operation
		Group,semi group,finite and infinite group,order of a finite group
		Addition and multiplication modulo m,
SUNDAY - 05.04.2020		
15	April (06 -11)	Order of an elements of a group,general properties of group
		Problem disscussion
		Complexes and sub group
		Theorems based on sub group
		Cosets
		Normal,simple group
SUNDAY - 12.04.2020		
16	April (13-18)	Quotient group
		Homomorphism
		Isomorphism
		Test
		Ring,types of ring
		Integral domain,skew field,field
SUNDAY - 19.04.2020		
17	April (20-25)	Problem disscussion
		Subring
		Characteristic of ring
		Ideals,simple ring
		Maximal ideal,principle ideal
		Prime ideal,nilpotent and nill ideal
SUNDAY - 26.04.2020		
18	April (27-30)	Problem disscussion
		Ring homomorphism
		Kernal of a ring homomorphism
		Test

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Weekly Lesson Plan (January 2020 - April 2020)

Name of the Paper:- **Logical Organization of Computers** **Class: BCA-I II Sem**

Name of the Teacher (Section wise): Ashwani Gupta

WEEK	DATE	TOPICS
1	January (1 - 4)	Sequential Logic: Characteristics, Flip-Flops, Clocked RS, D type, JK,
		T type and Master-Slave flip-flops. State table, state diagram.
		Flip-flop excitation tables
SUNDAY - 05.01.2020		
2	January (6-11)	
		Sequential Logic: Characteristics, Flip-Flops, Clocked RS, D type, JK,
		T type and Master-Slave flip-flops. State table, state diagram.
		Flip-flop excitation tables
SUNDAY - 12.01.2020		
3	January (13-18)	
		Sequential Logic: Characteristics, Flip-Flops, Clocked RS, D type, JK,
		T type and Master-Slave flip-flops. State table, state diagram.
		Flip-flop excitation tables
SUNDAY - 19.01.2020		
4	January (20 -25)	
		Sequential Logic: Characteristics, Flip-Flops, Clocked RS, D type, JK,
		T type and Master-Slave flip-flops. State table, state diagram.
		Flip-flop excitation tables
January - 26.01.2020		
5	January (27- 31) February (1)	Sequential Circuits: Designing registers – Serial Input Serial Output (SISO), Serial InputParallel Output (SIPO), Parallel Input Serial Output (PISO), Parallel Input Parallel Output
		(PIPO) and shift registers
SUNDAY - 02.02.2020		
6	February (3 -8)	Sequential Circuits: Designing registers – Serial Input Serial Output (SISO), Serial InputParallel Output (SIPO), Parallel Input Serial Output (PISO), Parallel Input Parallel Output
		(PIPO) and shift registers

SUNDAY - 09.02.2020		
7	February (10 -15)	**Designing counters – Asynchronous and Synchronous Binary**
		Counters, Modulo-N Counters and Up-Down Counters
SUNDAY - 16.02.2020		
8	February (17-22)	**Designing counters – Asynchronous and Synchronous Binary**
		Counters, Modulo-N Counters and Up-Down Counters
SUNDAY - 23.02.2020		
9	February (24-29)	**Memory & I/O Devices: Memory Parameters, Semiconductor RAM, ROM**
SUNDAY - 01.03.2020		
10	March (02 -07)	
		Memory & I/O Devices: Memory Parameters, Semiconductor RAM, ROM
SUNDAY - 08.03.2020		
11	March (09 -14)	
		Magnetic and Optical Storage devices,
		Flash memory, I/O Devices and their controllers.
SUNDAY - 15.03.2020		
12	March (16 -21)	
		Magnetic and Optical Storage devices,
		Flash memory, I/O Devices and their controllers.
SUNDAY - 22.03.2020		
13	March (23-28)	**Instruction Design & I/O Organization: Machine instruction, Instruction set selection,**
		Instruction cycle, Instruction Format and Addressing Modes. I/O Interface, Interrupt structure

SUNDAY - 29.03.2020		
14	March (30 -31) April 1-4)	**Instruction Design & I/O Organization: Machine instruction, Instruction set selection,**
		Instruction cycle, Instruction Format and Addressing Modes. I/O Interface, Interrupt structure
SUNDAY - 05.04.2020		
15	April (06 -11)	
		Program-controlled, Interrupt-controlled & DMA transfer, I/O Channels, IOP.
SUNDAY - 12.04.2020		
16	April (13-18)	
		Program-controlled, Interrupt-controlled & DMA transfer, I/O Channels, IOP.
SUNDAY - 19.04.2020		
17	April (20-25)	
		Revision
SUNDAY - 26.04.2020		
18	April (27-30)	
		Revision

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Weekly Lesson Plan (January 2020 - April 2020)

Name of the Paper:- OFFICE AUTOMATION Class:- BCA I Sem-2

Name of the Teachers (Section wise): TANU BAWEJA

WEEK	DATE	TOPICS
1	January (1 - 4)	Concept ,Need of Desktop Publishing
SUNDAY - 05.01.2020		
2	January (6-11)	Applications of Desktop Publishing, H/S requirement of DTP
		comparison between DTP Packages
		Features of DTP
SUNDAY - 12.01.2020		
3	January (13-18)	Features & system requirement of Page Maker
		Components of Page Maker Window
		Menu ,Tool Bar
		Page Maker References
SUNDAY - 19.01.2020		
4	January (20 -25)	PageMaker,Setting Page Size, Placing the Text
		Character Specification , Paragraph settings(Specification ,paragraph rules,spacing)
		Character Specification , Paragraph settings(Specification ,paragraph rules,spacing)

January - 26.01.2020		
5	January (27- 31) February (1)	Paragraph settings(Idents/Tab, Define Styles,Hyphenation,Header & Footer)
		Paragraph settings(Idents/Tab, Define Styles,Hyphenation,Header & Footer)
		Page Numbering, Saving & Closing Publication
SUNDAY - 02.02.2020		
6	February (3 -8)	Editing Publication(Open a Publication, Story Editor, Find & change the Text)
		Change Character & Paragraph Attributes, Spell Checking
		Selecting Text, Copy, Paste, Cut, Paste Multiple, Working with columns
SUNDAY - 09.02.2020		
7	February (10 -15)	Discussion about Difficult topics
		Assignment 1
		Introduction to Office Automation, Creating & Editing Document
SUNDAY - 16.02.2020		
8	February (17-22)	Formatting Document, Auto Text, Auto Correct
		Spelling & Grammar Tool, Document Dictionary
		Page Formatting
SUNDAY - 23.02.2020		
9	February (24-29)	Bookmark, Mail Merge
		Macros and tables
		Assignment II

SUNDAY - 01.03.2020		
10	March (02 -07)	File Management
		Conditional Test
		Printing Style, linking & embedding object
SUNDAY - 08.03.2020		
11	March (09 -14)	
		HOLI BREAK
SUNDAY - 15.03.2020		
12	March (16 -21)	Problems Discussion
		Introduction about Power Point & Presentation
		Creating, Manipulating &Enhancing Slides
SUNDAY - 22.03.2020		
13	March (23-28)	Charts in Power Point
		Problem Discussion
		Problem Discussion
SUNDAY - 29.03.2020		
14	March (30 -31) April 1-4)	Revision
		Revision
		Revision

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)	