

I.B. (PG) COLLEGE, PANIPAT
LESSON PLAN
SESSION 2023-24 (05.08.2023 to 24.11.2023)

Weekly Lesson Plan (Odd Semester)

UG (1st / III / V - Semester)

Name of the Paper:- Mathematical Foundation

Class: BCA-1st

Name of the Teachers (Section Wise) : Manish Kumar

WEEK	DATE	TOPICS
1	August (5)	Basic about Sets
SUNDAY - 06.08.2023		
2	August (7-12)	Sets and their representations
		Empty set, Finite and Infinite set
		Subsets, Equal Sets ,Power Sets
		Universal Sets
		Union and Intersection of Sets
SUNDAY - 13.08.2023		
3	August (14-19)	Differences of Sets
		Symmetric Differences
		Complement of a set
		Venn Diagram
		Examples
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	De-Morgen's Laws
		Applications of De-Morgan's Laws
		Examples
		Examples
		Examples And Doubts
		Class TEST
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	Introduction of Matrices
		Types Of Matrices
		Operations on Matrices
		Symmetric And Skew Symmetric Matrices
		Examples
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	Minors And Co-Factor
		Examples
		Examples
		Determinant of a square Matrix
		Examples
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	Adjoint of a Matrix
		Inverse Of a Matrix
		Examples
		Examples
		Examples
		Examples
SUNDAY - 17.09.2023		
8	September (18-22)	Solution Of a System Of Linear Equation
		Cramer's Rule
		Consistent And Inconsistent Equation
		solution Of a System Of Linear Equation using matrix
		Examples
		Examples

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	Quadratic Equation
		Solution Of a Quadratic Equation
		Examples
		Airthmatic Progression
		Geometric Progression
		Examples
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	Examples
		Harmonic Progression
		Airthmatic Mean, Geometric Mean
		Harmonic Mean
		Examples
SUNDAY - 08.10.2023		
11	October (9-14)	Relation Between A.M.,G.M.,And H.M.,
		Examples and Doubts
		Test
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	Diffrentation
		Concept of Diffrentation
		Diffrentation of Simple Function
SUNDAY - 22.10.2023		
13	October (23, 25-27)	Product rule
		Divide Rule of Diffrentation
		Examples
		Examples
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY -29.10.2023		
14	October (30-31) November (2-4)	Diffrentation of simple Algebraic
		Trigonometric Function
		Examples
		Problem Solving
		Problem Solving
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	Diffrentation of Exponential Function
		Diffrentation of Exponential Function
		Examples
		Problem Solving
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	Problem Solving
		Problem Solving
SUNDAY - 19.11.2023		
17	November (20-24)	Problem Solving
		Problem Solving
		Problem Solving
		Problem Solving
		Problem Solving
25.11.2023 - Examinations		

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LESSON PLAN
SESSION 2023-24 (05.08.2023 to 24.11.2023)

Weekly Lesson Plan (Odd Semester)

UG (1st / III / V - Semester)

Name of the Paper:- Foundations of Computer Science

Class: BCA I

Name of the Teachers (Section Wise) : PREETI MALIK, ANJU

WEEK	DATE	TOPICS
1	August (5)	
SUNDAY - 06.08.2023		
2	August (7-12)	Computer Fundamentals: Evolution of Computers through generations, Characteristics of Computers Strengths and Limitations of Computers, Classification of Computers Functional Components of a Computer System
SUNDAY - 13.08.2023		
3	August (14-19)	Applications of computers in Various Fields. Types of Software: System software, Application software, Utility Software
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	Shareware, Freeware, Firmware, Free Software. Memory Systems: Concept of bit, byte, word, nibble, storage locations and addresses, measuring units of storage capacity access time, concept of memory hierarchy. Primary Memory RAM, ROM. PROM, EPROM
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	Secondary Memory Types of storage devices Magnetic Tape, Hard Disk, Optical Disk, Flash Memory.
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	I/O Devices: I/O Ports of a Desk Top Computer Device Controller, Device Driver
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	Input Devices: classification and use, keyboard, pointing devices-mouse, touch pad and track ball Joystick, magnetic stripes, scanner, digital camera, and microphone Assignment 1
SUNDAY - 17.09.2023		
8	September (18-22)	Output Devices: speaker, monitor Printers: classification, laser, ink jet, dot-matrix. Plotter.

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	Conditional Test
		Introduction to Operating System: Definition, Functions, Features of Operating System
		Icon, Folder, File, Start Button, Task Bar, Status Button
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	Folders, Shortcuts, Recycle Bin, Desktop, My Computer, My Documents, Windows Explorer, Control Panel.
		The Internet: Introduction to networks and internet, history, Internet, Intranet & Extranet, Working of Internet
SUNDAY - 08.10.2023		
11	October (9-14)	Modes of Connecting to Internet. Electronic Mail: Introduction, advantages and disadvantages
		User Ids, Passwords, e-mail addresses, message components, message composition, mailer features
		Browsers and search engines.
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	Assignment 2
		Threats: Physical & non-physical threats, Virus, Worm, Trojan Spyware, Keyloggers, Rootkits
		Adware, Cookies, Phishing. Hacking. Cracking.
SUNDAY - 22.10.2023		
13	October (23, 25-27)	Computer Security Fundamentals: Confidentiality, Integrity
		Authentication, Non-Repudiation, Security Mechanisms, Security Awareness
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY -29.10.2023		
14	October (30-31) November (2-4)	Security Policy, anti-virus software & Firewalls, backup & recovery.
		Revision
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	Revision
		Revision
		Revision
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	
SUNDAY - 19.11.2023		
17	November (20-24)	Revision
		Revision
		Revision
25.11.2023 - Examinations		

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Weekly Lesson Plan (Odd Semester)

UG (1st Semester)

Name of the Paper:- Logical Organisation of Computers-I

Class: BCA-I

Name of the Teachers (Section Wise) : Ashwani Gupta, Deepty Juneja

WEEK	DATE	TOPICS
1	August (5)	Introduction of the Subject
SUNDAY - 06.08.2023		
2	August (7-12)	Information Representation: Number Systems
		Information Representation: Number Systems
		Information Representation: Number Systems
SUNDAY - 13.08.2023		
3	August (14-19)	Assignment No 1
		Binary Arithmetic
		Binary Arithmetic
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	Leave
		Leave
		Leave
		Leave
		Leave
		Leave
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	Leave
		Leave
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	Binary Arithmetic
		Binary Arithmetic
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	Fixed-point and Floatingpoint representation of numbers
		Fixed-point and Floatingpoint representation of numbers
		Fixed-point and Floatingpoint representation of numbers
SUNDAY - 17.09.2023		
8	September (18-22)	BCD Codes, Error detecting and correcting codes
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HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	Character Representation – ASCII, EBCDIC
		Character Representation – ASCII, EBCDIC
		Character Representation – ASCII, EBCDIC
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	Digital Logic: Basic Gates – AND, OR, NOT,
		Digital Logic: Basic Gates – AND, OR, NOT,
SUNDAY - 08.10.2023		
11	October (9-14)	Universal Gates – NAND, NOR
		Universal Gates – NAND, NOR
		Universal Gates – NAND, NOR
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	XOR, XNOR etc. implementations of digital circuits,
		XOR, XNOR etc. implementations of digital circuits,
		XOR, XNOR etc. implementations of digital circuits,
SUNDAY - 22.10.2023		
13	October (23, 25-27)	Combinational Logic –
		Characteristics, Design Procedures, analysis procedures
		Characteristics, Design Procedures, analysis procedures
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY -29.10.2023		
14	October (30-31) November (2-4)	Binary Logic: Boolean Algebra, Boolean Theorems
		Binary Logic: Boolean Algebra, Boolean Theorems
		Boolean Functions and Truth Tables,
		Canonical and Standard forms of Boolean functions,
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	Venn Diagram, Karnaugh Maps.
		Venn Diagram, Karnaugh Maps.
		Venn Diagram, Karnaugh Maps.
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	Combinational Circuits: Half-Adder, Full-Adder,
		Half-Subtractor, Full-Subtractor
SUNDAY - 19.11.2023		
17	November (20-24)	Decoders, Multiplexers, Demultiplexers
		Comparators, Code Converters.
		Revision
25.11.2023 - Examinations		

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LESSON PLAN

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UG (1st / III / V - Semester)

Name of the Paper:- Programming In C

Class: BCA -I

Name of the Teachers (Section Wise) : Prof. Vinay Bharti, Mohit

WEEK	DATE	TOPICS
1	August (5)	
SUNDAY - 06.08.2023		
2	August (7-12)	Introduction of c programming History important , Structure of c program
SUNDAY - 13.08.2023		
3	August (14-19)	character set constants and variables identifiers and keywords
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	Data types assignment statement, symbolic constant input function viz. scanf(),getch()
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	getche(),getchr(),gets() output functions viz. printf(),putch() putchar(),puts()
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	Operators & Expression : Arithmetic Relational,logical,Bitwise Unary,Assignment ,Conditional operator,operator hierarchy , Arithmetic Expression ,Evaluationof Arithmetic Expression
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	Type casting and conversion Decision making with if statement,if-else statement nested-if statement,else-if ladder,switchand break statement goto statement,loopingstatement : for ,while
SUNDAY - 17.09.2023		
8	September (18-22)	do-while loop ,jumps in loops Array:one dimensional array-declaration,initialization and memoryrepresentation Two -dimensionalarray -decalration ,initialization, and memory management

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	Function:definition , prototype,function call,
		passing argument to a function
		call by value
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	call by reference,
		recursive functions
		String: Declaration and initialization , string I/O,
		Array of string, string manipulation function: string length
SUNDAY - 08.10.2023		
11	October (9-14)	copy, compare, Concatenation etc.
		Search for a substring
		Revised
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	Revised
		test
		Pointers in C: Declaration and initialization pointers,
SUNDAY - 22.10.2023		
13	October (23, 25-27)	accessing address
		value of variables using pointers
		Pointer and array
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY -29.10.2023		
14	October (30-31) November (2-4)	Revised
		User defined data types :Structure -Definition
		Advantages of Structure ,Declaration structure variable
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	accessing structure members,structure variable initialization, Array of structures
		union- union definition,difference between structure and union.
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	
SUNDAY - 19.11.2023		
17	November (20-24)	Revised
		Revised
		Revised
25.11.2023 - Examinations		