ASIAN EDUCATIONAL INSTITUTE, PATIALA
SCHOOL OF COMPUTER SCIENCE
Syllabi Scheme of BCA
Session 2025-2026 onwards

BCA – 1st SEMESTER – 1st

Sr. No.	Code	Course Type	Title of Paper	L+T	P	External Marks	Internal Marks	Max. Marks	Credi
1	BCA101T	MAJ CC – 1	Programming Fundamentals using C	4+0	0	70	30	100	4
2	BCA102T	MAJ CC – 2	Computer Fundamentals	4+0	0	70	30	100	4
3	BCA103P	MAJ LAB-1	Software Lab – I (Based on BCA101T)	0	4	35	15	50	2
4	BCA104T	PBI. COMPULSORY	Punjabi (Compulsory) - I	4	0	70	30	100	4
	BCA105T	PBI. COMPULSORY	Punjabi Compulsory - I (Mudla Gyan) *						

DISCIPLINE SPECIFIC ELECTIVE COURSES

Sr. No.	Code	Course Type	Title of Paper	L+T	P	External Marks	Internal Marks	Max. Marks	Credi
1	BAEC11T	AEC1	General English – I	2+ 0	0	35	15	50	2
2	BVAC11T	VAC1	Environmental and Road Safety Awareness	2+ 0	0	35	15	50	2
3	BCA106T	MDE1	Foundation Course on Indian Knowledge System-I	3+0	0	70	30	100	3
4	BCA107P	SEC1	Word Processing Fundamentals	1+0	4	70	30	100	3
Total						455	195	650	24

*Only those students who have not studied Punjabi up to matriculation can opt Mudla Gyan. Other students will study Punjabi Compulsory.

BOS: 29.07.2025

CONTINUOUS ASSESSMENT (THEORY PAPERS)

1. **Two tests will be conducted during the semester** : **60%** of the total marks allotted for continuous assessment.
   Both the tests will be counted for assessment.
2. **Assignment/Quizzes** : **20%** of the total marks allotted for continuous assessment.
3. **Attendance** : **10%** of the total marks allotted for continuous assessment.
4. **Class Participation and behavior** : **10%** of the total marks allotted for continuous assessment.

CONTINUOUS ASSESSMENT (PRACTICAL PAPERS)

1. **Two tests will be conducted during the semester.** : **60%** of the total marks allotted for continuous assessment.
   Both the tests will be counted for assessment.
2. **Lab Assignments** : **20%** of the total marks allotted for continuous assessment.
3. **Attendance** : **10%** of the total marks allotted for continuous assessment.
4. **Practical File** : **10%** of the total marks allotted for continuous assessment.

NOTE: The Chairman of the Committee reserves the discretion to modify the syllabus, subject to changing circumstances or emerging needs.

BOS: 29.07.2025

SEMESTER-I

BCA101T: MAJ CC: PROGRAMMING FUNDAMENTALS USING C

Total Marks: 100
External Examination: 70
Internal Assessment: 30
Credits: 4

Maximum Time: 3 Hrs.
Minimum Pass Marks: 35%
Lectures to be delivered: 55-60 Hrs
L: 4 T:0 P: 0

Instructions for Paper-Setter:
The question paper will consist of three sections: A, B, and C. Sections A and B will each contain four questions based on their respective sections of the syllabus and will carry 30% of the total marks each. Section C will comprise 6 to 12 short answer-type questions, covering the entire syllabus uniformly, and will carry the remaining 40% of the total marks.

Instructions for Candidates:
Candidates are required to attempt any two questions from each of Sections A and B and all questions from Section C.

Course Outcomes:

- Understand the Programming Process: Define problems, develop algorithms, create
- flowcharts, write C code, compile, and debug programs effectively.
- Demonstrate Knowledge of C Basics: Explain the history of C, identify its basic structure,
- and utilize character sets, identifiers, keywords, constants, variables, and data types.
- Apply Operators and Expressions: Use arithmetic, unary, logical, relational, assignment, and conditional operators while understanding operator precedence and type conversion.
- Implement Control Statements: Develop programs using branching (if, if-else, switch), looping (for, while, do- while), and jump statements (break, continue, goto).

SECTION A

Programming Process: Problem definition, Algorithm development, Flowchart, Coding, Compilation and debugging..
Basic structure of C program: History of C, Structure of a C program, Character set, Identifiers and keywords, constants, variables, data types.
Operators and expressions: Arithmetic, Unary, Logical, Relational operators, assignment operators, Conditional operators, Hierarchy of operations type conversion.
Control statements: Branching statements (if, if else, switch), loop statements (for, while and do-while), jump statements (break, continue, go to), nested control structures.

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SECTION B

Functions: Library functions and user defined functions, prototype, definition and call, formal and actual arguments, local and global variables, methods of parameter passing to functions, recursion.

I/O functions: Formatted & unformatted console I/O functions

Arrays: – One dimensional and Two dimensional arrays, Declaration, Initialization, Reading values into an array, displaying array contents. .

Strings: Input/output of strings, string handling functions (strlen, strcpy, strcmp, strcat&strrev)

Text/Reference Books:

1 E. Balagurusamy, Programming in C, Tata McGraw-Hill.

2 Kernighan and Ritchie, The C Programming Language, PHI.

3 Byron Gotfried, Programming in C.

4 Kamathane, Programming in C, Oxford University Press.

5 'ਸੀ' ਭਾਸ਼ਾ ਵਿਚ ਪ੍ਰੋਗਰਾਮਿੰਗ, Madaan publishing House, Patiala.

BOS: 29.07.2025

pranayama and its types.

BCA102T: MAJ - CC: COMPUTER FUNDAMENTALS

Total Marks: 100
External Examination: 70
Internal Assessment: 30
Credits: 4

Maximum Time: 3 Hrs.
Minimum Pass Marks: 35%
Lectures to be delivered: 55-60 Hrs
L: 4 T:0 P: 0

Instructions for Paper-Setter:
The question paper will consist of three sections: A, B, and C. Sections A and B will each contain four questions based on their respective sections of the syllabus and will carry 30% of the total marks each. Section C will comprise 6 to 12 short answer-type questions, covering the entire syllabus uniformly, and will carry the remaining 40% of the total marks.

Instructions for Candidates:
Candidates are required to attempt any two questions from each of Sections A and B and all questions from Section C.

Course Outcomes:

- Understand Computer Fundamentals: Explain the block diagram of a computer, characteristics of computers, and different generations of computers.
- Classify Computer Categories: Differentiate between various types of computers such as supercomputers, mainframes, network servers, workstations, desktops, notebooks, tablets, handheld PCs, and smartphones.
- Identify Input and Output Devices: Describe the functionalities of input devices (e.g., keyboard, mouse, touch screen, OCR) and output devices (e.g., monitors, printers, plotters).
- Comprehend Memory and Storage Devices: Explain memory hierarchy, types of primary memory (RAM, ROM, Cache), and secondary storage devices (HDD, CD, DVD, Flash memory).
- Distinguish Software Types: Differentiate between system software, application software, and firmware, including operating systems, language translators, and utility programs.

SECTION A

Computer Fundamentals: Block diagram of a computer, characteristics of computers and generations of computers. Categories of Computers - Supercomputer, mainframe computer, network server, Workstation, Desktop computers.
Input Devices: Keyboard, Mouse, Joy stick, Track Ball, Touch Screen, Light Pen, Digitizer, Scanners, Speech Recognition Devices, Optical Recognition devices – OMR, OBR, OCR
Output Devices: Monitors, Impact Printers - Dot matrix, Character and Line printer, Non-Impact Printers – DeskJet and Laser printers, Plotter
Memories: Memory Hierarchy, Primary Memory – RAM, ROM, Cache memory. Secondary

BOS: 29.07.2025

Storage Devices -Hard Disk, Compact Disk, DVD, Flash memory.
Software: Types of Software- System Software, Application Software, Firmware. Type of System Software: Operating Systems, Language Translators, Utility Programs, Communications Software.
Commonly Used Application Software: Word Processor, Spreadsheet, Database, Education, Entertainment Software.

SECTION B

Computer Languages: Machine language, assembly language, high level language, 4GL.
Computer Network: Network types, network topologies.
Internet Related Concepts: Internet, World Wide Web, Hypertext, Uniform Resource Locator, Web Browsers, IP Address, Domain Name, Internet Services Providers, Internet Security, Web Search Engine, Net Surfing.
Introduction to Digital Electronic: Analog vs Digital Signals
Number Systems: Binary, Decimal, Octal, Hexadecimal, Conversions between systems
Logic Gates: AND, OR, NOT NAND, NOR XOR, XNOR Truth Tables and Logic Symbol Representation

Text/Reference Books:

1. Peter Nortorn, Introduction to Computers, Seventh Edition
2. V. Rajaraman, Fundamentals of Computers, PHI.
3. Larry E. Long and Nancy Long, Computers: Information Technology in Perspective, PHI.
4. N. Subramanian, Introduction to Computers, Tata McGraw-Hill.
5. D.H. Sanders, Computers Today, McGraw- Hill.
6. ਸੂਚਨਾ ਤਕਨਾਲੋਜੀ ਦੇ ਤੱਤ, Madaan Publishing House, Patiala.

BOS: 29.01.2025

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BCA103P:-MAJ LAB -1: SOFTWARE LAB – I (BASED ON BCA101T)

Total Marks:50
External Examination: 35
Internal Assessment: 15
Credits: 2

Maximum Time: 3 Hrs.
Minimum Pass Marks: 35%
Lectures to be delivered: 55-60 Hrs
L:0 T:0 P: 4

This laboratory course will comprise as exercises to supplement what is learnt under paper **BCA101:(Programming Fundamental using C)** Students are required to develop the various programs to understand the concepts and a practical file with internal documentation.

The breakup of marks for the practical will be as under

i.	Internal Assessment	30% Marks
ii.	Viva Voce (External Evaluation)	30% Marks
iii.	Lab Record, Program Development and Execution (External Evaluation)	30% Marks
iv.	Lab Attendance	10% Marks

Date: 29.07.2025

BCA-104T Punjabi Compulsory -I

Asian Educational Institute
(An Autonomous College)
ਪੇਪਰ - ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ
PAPER: PUNJABI COMPULSORY
ਬੀ.ਸੀ.ਏ. ਭਾਗ-ਪਹਿਲਾ, ਸਮੈਸਟਰ ਪਹਿਲਾ
ਵਿਸ਼ਾ ਕੋਡ
ACADEMIC SESSION 2025-26

ਕੁਲ ਅੰਕ 100
ਅੰਦਰੂਨੀ ਮੁਲਾਂਕਣ 30
ਬਾਹਰੀ ਪ੍ਰੀਖਿਆ 70 ਅੰਕ
ਸਮਾਂ: 3 ਘੰਟੇ

ਵਿਸ਼ੇ ਵਿਚੋਂ ਪਾਸ ਹੋਣ ਲਈ ਅੰਕ 35%
ਅੰਕ ਅਧਿਆਪਨ 06 ਪੀਰੀਅਡ ਪ੍ਰਤੀ ਹਫਤਾ
ਕੁੱਲ 04 ਕ੍ਰੈਡਿਟ

ਪਾਠਕ੍ਰਮ ਅਤੇ ਪਾਠ ਪੁਸਤਕਾਂ

ਭਾਗ - ਓ

ਭਾਗ - ਓ 1 ਬੱਤਖ ਦੇ ਖੰਭਾਂ ਜਿਹੇ ਸਫੈਦ ਦਿਨ (ਨਾਵਲਿਟ)- ਪ੍ਰਗਟ ਸਿੰਘ ਸਿੱਧੂ 12+12=ਅੰਕ

ਭਾਗ - ਅ

ਭਾਗ -ਅ 1. ਨਿਬੰਧ ਰਚਨਾ: ਮਨੁੱਖੀ ਜੀਵਨ ਵਿੱਚ ਕੰਪਿਊਟਰ, ਤਕਨਾਲੋਜੀ, ਵਪਾਰਕ ਪ੍ਰਬੰਧ ਅਤੇ ਸਰਗਰਮੀ ਦੇ ਮਹੱਤਵ ਅਤੇ ਭੂਮਿਕਾ ਬਾਰੇ ਨਾਲ ਸਬੰਧਤ ਨਿਬੰਧ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 12 ਅੰਕ

ਭਾਗ ਅ 2 ਕੰਪਿਊਟਰ ਅਤੇ ਪੰਜਾਬੀ ਭਾਸ਼ਾ:

ਓ) ਕੰਪਿਊਟਰ ਅਤੇ ਇੰਟਰਨੈਟ ਨਾਲ ਸਬੰਧਿਤ ਤਕਨੀਕੀ ਸ਼ਬਦਾਵਲੀ (100 ਸ਼ਬਦ): ਅੰਗਰੇਜ਼ੀ ਸ਼ਬਦਾਂ ਦਾ ਪੰਜਾਬੀ ਅਨੁਵਾਦ ਅਤੇ ਵਾਕਾਂ ਵਿਚ ਵਰਤੋ। 06 ਅੰਕ

ਅ) ਪੰਜਾਬੀ ਵਿੱਚ ਕੰਪਿਊਟਰ ਦੀ ਵਰਤੋਂ ਦੀਆਂ ਸਮੱਸਿਆਵਾਂ ਅਤੇ ਸੰਭਾਵਨਾਵਾਂ: ਗੁਰਮੁਖੀ ਕੀ-ਬੋਰਡ, ਫੋਨੈਟਿਕ, ਰਮਿੰਗਟਨ, ਇਨਸਕ੍ਰਿਪਟ, ਪੰਜਾਬੀ ਅੱਖਰਕਾਰੀ ਦੀ ਇਕਸਾਰਤਾ ਅਤੇ ਫੌਂਟ ਕਨਵਰਟਰ ਦੀਆਂ ਸਮੱਸਿਆਵਾਂ, ਯੂਨੀਕੋਡ ਫੌਂਟ ਪ੍ਰਣਾਲੀ, ਅੱਖਰ ਸੌਫਟਵੇਅਰ ਦਾ ਸਰੂਪ ਦੀ ਵਰਤੋਂ 06 ਅੰਕ

ਭਾਗ - ਏ

ਪਾਠਕ੍ਰਮ ਦੇ ਭਾਗ ਓ ਅਤੇ ਭਾਗ ਅ ਵਿਚੋਂ 11 ਸੰਖੇਪ ਉੱਤਰਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ। 22 ਅੰਕ

ਅੰਕ ਵੰਡ ਅਤੇ ਪੇਪਰ ਸੈੱਟਰ ਲਈ ਹਦਾਇਤਾਂ

1. ਪਾਠਕ੍ਰਮ ਦੇ ਦੇ ਭਾਗ ਓ ਅਤੇ ਅ ਹਨ ਪਰ ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਨੂੰ ਤਿੰਨ ਭਾਗਾਂ ਓ, ਅ ਅਤੇ ਏ ਵਿੱਚ ਵੰਡਿਆ ਜਾਵੇਗਾ।
2. ਭਾਗ ਓ ਵਿੱਚੋਂ (i) ਨਾਵਲਿਟ ਦਾ ਵਿਸ਼ਾ/ਸਾਰ ਜਾਂ ਨਾਵਲਿਟ ਬਾਰੇ ਪਾਠਕੀ ਪ੍ਰਭਾਵ (ਤਿੰਨ ਵਿੱਚੋਂ ਇਕ) 12 ਅੰਕ
   (ii) ਨਾਵਲਿਟ ਦੇ ਪਾਤਰਾਂ ਨਾਲ ਜਾਣ-ਪਛਾਣ (ਚਾਰ ਵਿੱਚੋਂ ਦੋ) 2x6 = 12
3. ਭਾਗ ਅ-1 ਨਿਬੰਧ ਰਚਨਾ ਵਿਚ ਤਿੰਨ ਵਿਸ਼ੇ ਦੇ ਕੇ ਕਿਸੇ ਇਕ ਵਿਸ਼ੇ 'ਤੇ ਨਿਬੰਧ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 12 ਅੰਕ
4. ਭਾਗ ਅ-2 (i) ਵਿੱਚੋਂ ਅੰਗਰੇਜ਼ੀ ਦੇ 10 ਸ਼ਬਦ ਦੇ ਕੇ ਉਨ੍ਹਾਂ ਵਿੱਚੋਂ 6 ਸ਼ਬਦਾਂ ਦਾ ਪੰਜਾਬੀ ਅਨੁਵਾਦ ਕਰਕੇ ਉਨ੍ਹਾਂ ਦੀ ਵਾਕਾਂ ਵਿਚ ਵਰਤੋਂ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 2x6 = 12
5. ਭਾਗ ਅ-2 (ii) ਵਿਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ ਅਤੇ ਵਿਦਿਆਰਥੀ ਨੇ ਦੋਵਾਂ ਵਿਚੋਂ ਇਕ ਪ੍ਰਸ਼ਨ ਕਰਨਾ ਹੋਵੇਗਾ।
6. ਭਾਗ-ਏ ਭਾਗ ਓ ਅਤੇ ਅ ਵਿੱਚੋਂ ਸੰਖੇਪ ਉਤਰਾਂ ਵਾਲੇ 11 (ਨਾਵਲ ਵਿੱਚੋਂ 6 ਤੇ ਕੰਪਿਊਟਰ ਤੇ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਵਿੱਚੋਂ 5) ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਵਿਦਿਆਰਥੀ ਸਭ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਸੰਖੇਪ ਉੱਤਰ ਦੇਵੇਗਾ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ 2 ਅੰਕ ਹੋਣਗੇ। 11x2 = 22

ਨੋਟ: ਅੰਦਰੂਨੀ ਮੁਲਾਂਕਣ ਦੇ ਅੰਕਾਂ ਵਿਚੋਂ ਅਸਾਈਨਮੈਂਟ ਦੇ ਕਾਰਜ ਲਈ ਪੰਜਾਬੀ ਵਿਚ ਕੰਪਿਊਟਰ ਅਤੇ ਇੰਟਰਨੈੱਟ ਨਾਲ

ਸਬੰਧਿਤ ਅਖਬਾਰੀ ਲੇਖਾਂ, ਮਿਡਲਾਂ ਅਤੇ ਬਲੋਗ-ਰਚਨਾਵਾਂ ਦੀ 20-25 ਪੰਨਿਆਂ ਦੀ ਸਕਰੈਪ ਬੁੱਕ ਤਿਆਰ ਕਰਵਾਈ ਜਾਵੇਗੀ।
ਉਸ ਦੇ ਅਧਾਰ 'ਤੇ ਅਸਾਈਨਮੈਂਟ ਦੇ ਅੰਕ ਲਗਾਏ ਜਾਣਗੇ। ਮੌਲਿਕ ਲੇਖਣੀ ਨੂੰ ਤਰਜ਼ੀਹ ਦਿੱਤੀ ਜਾਵੇ।

ਕੰਪਿਊਟਰ ਤੇ ਇੰਟਰਨੈੱਟ ਨਾਲ ਸਬੰਧਿਤ ਤਕਨੀਕੀ ਸ਼ਬਦਾਵਲੀ:

1.	Abort (ਐਬੋਰਟ)	ਵਿਫਲ ਹੋਣਾ		23.	Auto booting(ਆਟੋ ਬੂਟਿੰਗ)	ਸਵੈ-ਉੱਥਾਨਤਾ
2.	Access (ਐਕਸੈੱਸ)	ਰਸਾਈ, ਪਹੁੰਚ		24.	Automatic error correction (ਆਟੋਮੈਟਿਕ ਐਰਰ ਕਰੈਕਸ਼ਨ)	ਸਵੈ ਤਰੁੱਟੀ ਸੋਧ
3.	Accuracy (ਐਕੁਰੇਸੀ)	ਸ਼ੁੱਧਤਾ		25.	ASCII (ਆਸਕੀ)	ਆਸਕੀ
4.	Account (ਅਕਾਊਂਟ)	ਖਾਤਾ		26.	Ariel (ਏਰੀਅਲ)	ਏਰੀਅਲ
	Activation (ਐਕਟੀਵਸ਼ਨ)	ਕ੍ਰਿਆਸ਼ੀਲ		27.	Audio (ਆਡੀਓ)	ਆਵਾਜ਼
6.	Add file (ਐਡ ਫਾਈਲ)	ਮਿਸਲ ਜੋੜੋ		28.	Auto correct (ਆਟੋ ਕਰੈਕਟ)	ਸਵੈ-ਸੋਧ
7.	Address (ਐਡਰੈੱਸ)	ਸਿਰਨਾਵਾਂ		29.	Background (ਬੈਕਗਰਾਉਂਡ)	ਪਿਛੋਕੜ/ਪਿਠਵਰਤੀ
8.	Administrator (ਐਡਮਨਿਸਟ੍ਰੇਟਰ)	ਪ੍ਰਸ਼ਾਸਕ		30.	Background job (ਬੈਕਗਰਾਉਂਡ ਜਾਬ)	ਪਿੱਠਵਰਤੀ ਕਾਰਜ
9.	Alphanumeric (ਐਲਫਾਨਿਊਮੈਰਿਕ)	ਅੱਖਰ-ਅੰਕੀ		31.	Backup (ਬੈਕਅੱਪ)	ਉਤਾਰਾ ਸੰਭਾਲ/ ਨਕਲ ਸੰਭਾਲ
10.	Alphabetic code (ਐਲਫਾਬੈਟਿਕਕੋਡ)	ਅੱਖਰੀ ਸੰਕੇਤ		32.	Bar (ਬਾਰ)	ਪੱਟੀ
11.	Alignment (ਅਲਾਈਨਮੈਂਟ)	ਸੋਧਬੰਦੀ, ਕਤਾਰਬੰਦੀ		33.	Battery (ਬੈਟਰੀ)	ਊਰਜਾ ਯੰਤਰ
12.	Altering (ਅਲਟਰਿੰਗ)	ਪਰਿਵਰਤਨ ਕਰਨਾ		34.	Bandwidth (ਬੈਂਡਵਿਡਥ)	ਬੈਂਡ ਚੌੜਾਈ
13.	Analogue (ਐਨਾਲੋਗ)	ਅਨੁਰੂਪ		35.	Bar code (ਬਾਰ ਕੋਡ)	ਰੇਖਿਕੀ ਸੰਕੇਤ
14.	Analogue programming (ਐਨਾਲੋਗ ਪ੍ਰੋਗਰਾਮਿੰਗ)	ਅਨੁਰੂਪ ਕ੍ਰਮ-ਆਦੇਸ਼		36.	Binary (ਬਾਇਨਰੀ)	ਦੋ-ਆਧਾਰੀ
15.	Analogue system (ਐਨਾਲੋਗ ਸਿਸਟਮ)	ਅਨੁਰੂਪ ਤੰਤਰ		37.	Binary code (ਬਾਇਨਰੀ ਕੋਡ)	ਦੋ-ਆਧਾਰੀ ਸੰਕੇਤ
16.	Animation (ਐਨੀਮੇਸ਼ਨ)	ਜੀਵੰਤ-ਚਿਤਰ		38.	Binary digit (ਬਾਇਨਰੀ ਡਿਜਿਟ)	ਦੋ-ਆਧਾਰੀ ਅੰਕ
	Anti-virus (ਐਂਟੀ ਵਾਇਰਸ)	ਬਿਗੜ-ਵਿਰੋਧੀ, ਬਿਗੜ-ਰੋਧਕ, ਵਾਇਰਸ-ਰੋਧਕ		39.	Binary number (ਬਾਇਨਰੀ ਨੰਬਰ)	ਦੋ-ਆਧਾਰੀ ਸੰਖਿਆ
18.	Application (ਐਪਲੀਕੇਸ਼ਨ)	ਅਮਲਕਾਰੀ		40.	Block (ਬਲਾਕ)	ਅੜ ਜਾਣਾ, ਫਸ ਜਾਣਾ
19.	Attachment (ਅਟੈਚਮੈਂਟ)	ਨੱਥੀ		41.	Blog (ਬਲਾਗ)	ਚਿੱਠਾ
20.	Arithmetic instruction (ਅਰਿਥਮੈਟਿਕ ਇੰਸਟਰਕਸ਼ਨ)	ਅੰਕਗਿਣਤਕ ਆਦੇਸ਼		42.	Bluetooth (ਬਲੂਟੂੱਥ)	ਲਘੂ-ਪ੍ਰਦਾਨੀ, ਘੱਟ- ਦੂਰੀ - ਤਬਾਦਲਾ -ਤਕਨੀਕ
21.	Artificial Intelligence (ਆਰਟੀਫਿਸ਼ਲ ਇੰਟੈਲੀਜੈਂਸ)	ਗੈਰ-ਕੁਦਰਤੀ ਬੁੱਧੀ		43.	Bold (ਬੋਲਡ)	ਗੂੜ੍ਹਾ
22.	Artificial language (ਆਰਟੀਫਿਸ਼ਲ ਲੈਂਗੂਏਜ਼)	ਗੈਰ-ਕੁਦਰਤੀ ਬੁੱਧੀ ਜਾਂ ਮਸੀਨੀ ਬੁੱਧੀ		44.	Book marks (ਬੁੱਕ ਮਾਰਕਸ)	ਪੰਨਾ ਚਿੰਨ੍ਹ/ਪਹੁੰਚ ਚਿੰਨ੍ਹ

45.	Browser (ਬਰਾਊਜ਼ਰ)	ਜਾਲ-ਖੋਜਕ, ਜਾਲ-ਗਾਹੂ		68.	Comment (ਕਮੈਂਟ)	ਟਿੱਪਣੀ
46.	Bug (ਬੱਗ)	ਦੋਸ਼, ਨੁਕਸ		69.	Codes (ਕੋਡਸ)	ਸੰਕੇਤ, ਸੰਕੇਤਾਵਲੀ
47.	Byte(ਬਾਈਟ)	ਬਾਈਟ		70.	Column (ਕਾਲਮ)	ਥੰਮ੍ਹ
48.	Bulleting (ਬੁਲੇਟਿੰਗ)	ਗੋਲਾਕਾਰੀ		71.	Command (ਕਮਾਂਡ)	ਹੁਕਮ
49.	Cafe (ਕੈਫੇ)	ਸੂਚਨਾ ਢਾਬਾ, ਤਕਨੀਕੀ ਢਾਬਾ		72.	Comment (ਕਮੈਂਟ)	ਟਿੱਪਣੀ
50.	Call (ਕਾਲ)	ਸੱਦ		73.	Computer (ਕੰਪਿਊਟਰ)	ਗਣਕ-ਯੰਤਰ
51.	Camera (ਕੈਮੇਰਾ)	ਚਿੱਤਰਕਸ਼ੀ ਯੰਤਰ		74.	Communication Link (ਕਮਿਊਨਿਕੇਸ਼ਨ ਲਿੰਕ)	ਸੰਚਾਰ ਗਤੀ
52.	Career signal (ਕੈਰੀਅਰ ਸਿਗਨਲ)	ਵਾਹਕ ਸੰਕੇਤ		75.	Connection (ਕਨੈਕਸ਼ਨ)	ਮੇਲ
53.	Catalogue (ਕੈਟਾਲਾਗ)	ਕਰਮ ਆਦੇਸ਼ ਸੂਚੀ		76.	Contacts (ਕਾਨਟੈਕਟਸ)	ਸਬੰਧ, ਸੰਪਰਕ
54.	Channel (ਚੈਨਲ)	ਚੈਨਲ		77.	Contact Analysis (ਕਾਨਟੈਕਟ ਐਨਾਲਾਈਸਜ਼)	ਅੰਤਰ ਵਸਤੂ ਵਿਸ਼ਲੇਸ਼ਣ
55.	Central processing unit (ਸੈਂਟਰਲ ਪਰੋਸੈਸਿੰਗ ਯੂਨਿਟ)	ਕੇਂਦਰੀ ਅਮਲਕਾਰੀ ਇਕਾਈ		78.	Control Unit (ਕੰਟਰੋਲ ਯੂਨਿਟ)	ਨਿਯੰਤਰਕ ਇਕਾਈ
56.	Charge (ਚਾਰਜ)	ਊਰਜਾਉਣਾ		79.	Converter (ਕਨਵਰਟਰ)	ਤਬਾਦਲਾਕਾਰ, ਪਲਟਾਊ-ਯੰਤਰ
57.	Charger (ਚਾਰਜਰ)	ਊਰਜਾਊ ਯੰਤਰ		80.	Copy (ਕਾਪੀ)	ਉਤਾਰਾ
58.	Chatting (ਚੈਟਿੰਗ)	ਸ਼ਬਦੀ ਚਰਚਾ		81.	Corpus (ਕਾਰਪਸ)	ਸੰਗ੍ਰਹਿਣ
59.	Check Box (ਚੈੱਕ ਬਾਕਸ)	ਠੀਕਾ ਬਕਸਾ		82.	Cut (ਕੱਟ)	ਹਟਾਉਣਾ
60.	Check point (ਚੈੱਕ ਪੁਆਇੰਟ)	ਜਾਂਚ-ਬਿੰਦੂ		83.	Cut paste (ਕੱਟ ਪੇਸਟ)	ਚੱਕ-ਚੰਮੇੜ, ਹਟਾ-ਰੱਖ
61.	Chip (ਚਿੱਪ)	ਚਿੱਪ, ਪੱਚਰ		84.	Drag and Drop (ਡਰਾਗ ਐਂਡ ਡਰਾਪ)	ਖਿੱਚੋ-ਤੇ-ਰੱਖੋ
62.	Chip Career (ਚਿੱਪ ਕੈਰੀਅਰ)	ਚਿੱਪ ਵਾਹਕ		85.	Data (ਡਾਟਾ)	ਅੰਕੜਾ
63.	Click (ਕਲਿੱਕ)	ਨੱਪਣਾ, ਦੱਬਣਾ		86.	Data Pack (ਡਾਟਾ ਪੈਕ)	ਅੰਕੜਾ ਗੁੱਟ
64.	Cluster (ਕਲੱਸਟਰ)	ਗੁੱਛਾ		87.	Data Base (ਡਾਟਾ ਬੇਸ)	ਅੰਕੜਾ ਸਾਲਾ
65.	Cluster Analysis (ਕਲੱਸਟਰ ਐਨਾਲਾਈਸਸ)	ਗੁੱਛ ਵਿਸ਼ਲੇਸ਼ਣ		88.	Delete (ਡੀਲੀਟ)	ਹਟਾਉਣਾ
66.	Combination (ਕੰਬੀਨੇਸ਼ਨ)	ਸੰਯੋਜਨ		89.	Design (ਡਿਜ਼ਾਈਨ)	ਰੂਪ-ਰੇਖਾ
67.	Command (ਕਮਾਂਡ)	ਆਦੇਸ਼		90.	Display Unit (ਡਿਸਪਲੇਅ ਯੂਨਿਟ)	ਪ੍ਰਦਰਸ਼ਨ ਇਕਾਈ

Pranayama, meaning, definition of pranayama and its types.

1.	Digital (ਡਿਜ਼ੀਟਲ)	ਅੰਕੀ		97.	Drive (ਡਰਾਈਵ)	ਚਾਲਕ
2.	Directory (ਡਾਇਰੈਕਟਰੀ)	ਮੂਲ-ਨਿਰਦੇਸ਼ਕਾ		98.	Edit (ਐਡਿਟ)	ਸੰਪਾਦਨ
3.	Disk (ਡਿਸਕ)	ਤਵਾ		99.	Electrical (ਇਲੈਕਟ੍ਰੀਕਲ)	ਬਿਜਲਈ
4.	Disk Drive (ਡਿਸਕ ਡਰਾਈਵ)	ਤਵਾ-ਚਾਲਕ		100	Electronic (ਇਲੈਕਟ੍ਰੋਨਿਕ)	ਬਿਜਲਾਣਵੀ
5.	Document (ਡਾਕੂਮੈਂਟ)	ਦਸਤਾਵੇਜ਼		101	E-mail (ਈਮੇਲ)	ਬਿਜਲ-ਡਾਕ
6.	Download (ਡਾਊਨਲੋਡ)	ਉਤਾਰਨਾ				

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BCA/

BAEC11T General English - I

ASIAN EDUCATIONAL INSTITUTE
(An Autonomous College)
FOR SESSION:-2025-26
Subject Code :BAEC11T
B.C.A Part—I (Semester I)
General English - I

Total Marks: 50
Credits: 02
Pass Marks 35%.

Duration 1.5 Hours
Written Examination: 35 Marks
Internal Assessment:15 marks

COURSE CONTENT

(UNIT 1) Composition and Writing Skills, Orient Black-swan, 2016,

1 . Section One: Composition
Paragraph Writing
Developing a story
Letter writing (Personal (or Informal))

2. Section Two: Vocabulary
Basie Vocabulary- List A (Pages 149-152)

(UNIT II) The following texts are prescribed:
Interchange, 5th Edition (with digital page vol 1. Cambridge University Press 2021
(Units 1·-8):

a. Unit-I Where are you from'?
b. Unit-2 What do you do?
c. Unit- -3 How much are these'?
d. Unit-4 Do you play the guitar'?
e. Unit-5 What an interesting family

English Grammar in Use, 5 th Edition by Raymond Murphy, Cambridge University Press, 2019,
The following units are to be studied:
Unit 69-81 and appendices I to 4. Additional exercises from the book that are relevant to the prescribed Units.

TESTING
UNIT-I

1. There will be one lengthy question with internal choice on paragraph writing or developing a story based on themes like introducing oneself/someone, describing daily schedules, making invitations and excuses, talking about abilities and describing past experiences etc. The answer should be in about 350-400 words. (6 marks)
2. This question will carry an internal alternative and will be based on Personal (or Informal) letter Writing. (6 Marks

UNIT-II

3. This question will carry six incomplete sentences to be set from prescribed units of English Grammar in Use. The students will complete the given sentences. Each shall carry one mark. (6 marks)

4. This question will pertain to answering questions based on a Unseen passage .Each question shall carry one mark. (6 marks)

UNIT-III

5. Read the situation and complete the conversation. The conversation will carry six incomplete sentences that can be set from one of the prescribed texts. (6 marks)

6. students will use given five words to make sentences that shall be set from the Basic Vocabulary-List A from Composition and Writing Skills. Each sentence shall carry I mark. (5 marks)

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Semester-I

(2025 - 2026)

Environment and Road Safety

Subject Code: BEVS101

B(VAC) 111 T

Max. Marks: 50

Credits: 02

End-Semester Exam: 35 marks

Total load: 30 Hours

Internal Evaluation: 15 marks

Pass Marks: 35%

Instructions for Paper Setter:

The end-semester examination will be of 35 marks and of 1.5 hours duration. The question paper will consist of three sections, namely Section A, B and C. Section A and B will have four questions each from the respective sections of syllabus. Each question will carry 06 marks and may be segregated into sub-parts. Section C will be compulsory with 11 short- answer type questions of 1 mark each covering the entire syllabus.

Instructions for students:

Students have to attempt four questions in all from Section A and B by selecting 2 questions from each Section. Section C will be compulsory, Use of scientific calculator is allowed.

Section-A

Introduction to environmental studies: The multidisciplinary nature of environmental studies, definition, scope and importance, concept of Biosphere-Lithosphere, hydrosphere, atmosphere.

Ecosystem & biodiversity conservation: Ecosystem and its components, types of Ecosystems Biodiversity-definition and Value, Threats to biodiversity and its conservation Level of biological diversity, genetic, species and ecosystem diversity; bio-geographic zones of India; biodiversity patterns and global biodiversity hot spots, India as Mega-biodiversity nation; Endangered and endemic species of India. Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and informational value.

Natural resources-renewable and non-renewable resources: Land resources and land use change; land degradation soil erosion and desertification, Deforestation causes and impacts due to mining, dam building on environment, Forests, Biodiversity and tribal populations. Water: use and over-exploitation of surface and ground water floods droughts conflicts over water (international & inter-state) Energy resources: renewable and non-renewable energy sources. Use of alternate energy sources, growing energy need case studies.

Environmental Pollution Environmental Pollution: types, causes, effects and controls: Air, water, soil and noise pollution, Nuclear hazards and human health risks, Solid waste management, Source Segregations: Control measures of urban and Industrial waste, Pollution case studies.

Section-B

Environmental protection laws in India: Environmental protection act for: Air (Prevention and control of pollution), Water (Prevention and Control of pollution), Wild life Forest Conservation, Issues involved in the enforcement of environmental, legislation role of an individual in prevention of pollution, Environmental policies & Practices; Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture.

Human Communities and the Environment: Human population growth: Impacts on environment human health and welfare Sanitation & Hygiene, Resettlement and rehabilitation of project affected persons: case studies, Disaster management: floods, earthquake cyclones and landslides, Environment movements: Chipko. Silent valley, Bishops of Rajasthan Environmental ethics: Role of Indian and other religions and cultures in environmental conservation for a Clean green pollution free state, Environmental communication and public awareness case studies (e g CNG vehicles in Delhi)

Road safety awareness: Concept and significance of Road safety, Traffic signs, Traffic rules, Traffic Offences and penalties, How to obtain license, Role of first aid in Road Safety Stubble, Burning, Meaning of Stubble burning, Impact on health & environment, Management and alternative uses of crop stubble, Environmental Legislations and Policies for Restriction of Agriculture Residue Burning in Punjab.

Field Work

1. Visit to an area to document environ1mental assets: river Forest Flora Fauna etc.
2. Visit to Local polluted site urban/Rural Industrial Agricultural
3. Study of common Plants Insects, Birds and basic principles of identification
4. Study of simple ecosystems-pond river, Delhi Ridge etc.

Reference Books

1. Carson. R. 2002 Silent Spring Houghton Miflin larcourt.
2. Gadgil Miuha R 1993 Thislissured 1 and: An cological History of India of California Press.
3. MCe ully, P. 1996. Rivers no more: the environmental effects of dans (pp.29 64). Zed Books
4. Raven. P.H., Hassenzahl. D.M & Berg R. 2012. Environment 8Th edition John
5. Wiles & Sons 13. Rosencranz A Divan. S., & Nobie. ML. 2001. Environmental law and policy in India Tripathi 1992.
6. Singh. J.S., Singh, S.P. and Gupta, S.R. 2014. Ecology. Environmental Sience and Conservation. S. Chand Publishing. New Delhi.

BCA106T: MDE -1: FOUNDATION COURSE ON INDIAN KNOWLEDGE SYSTEM

Total Marks: 100 **Maximum Time: 3 Hrs.**

External Examination: 70 **Minimum Pass Marks: 35%**

Internal Assessment: 30 **Lectures to be delivered: 40-45Hrs**

Credits: 3 **L: 3 T:0 P: 0**

Instructions for Paper-Setter:

The question paper will consist of three sections: A, B, and C. Sections A and B will each contain four questions based on their respective sections of the syllabus and will carry 30% of the total marks each. Section C will comprise 6 to 12 short answer-type questions, covering the entire syllabus uniformly, and will carry the remaining 40% of the total marks.

Instructions for Candidates:

Candidates are required to attempt any two questions from each of Sections A and B and all questions from Section C.

Course Outcomes:

- Define the scope and meaning of IKS and identify its primary sources such as the Vedas, Upanishads, and Puranas.
- Describe the key characteristics and unique traditions of Indian knowledge.
- Explain the core ideas of the six classical schools of Indian philosophy.
- Discuss fundamental concepts like Dharma, Karma, and Moksha and their role in Indian worldview.
- Understand the Indian perspectives on morality, truth, and epistemology

Section A: Fundamentals of Indian Knowledge System

Unit 1: Introduction to Indian Knowledge System

- Meaning and scope of Indian Knowledge System (IKS)
- Sources of knowledge: Vedas, Upanishads, Puranas
- Key characteristics of Indian knowledge traditions

Unit 2: Indian Philosophy and Ethical Thought

- Introduction to six schools of Indian philosophy
- Concepts of Dharma, Karma, Moksha

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- Indian approach to morality, truth, and knowledge

Unit 3: Traditional Indian Education System

- Gurukul system and role of the teacher
- Ancient universities: Nalanda, Takshashila, Vikramashila
- Learning methods: oral tradition, memorization, debate

Section B: Indian Contributions and Cultural Heritage

Unit 4: Indian Contributions to Science and Technology

- Achievements in mathematics (Zero, decimal, algebra)
- Contributions in astronomy, medicine (Ayurveda), and metallurgy
- Ancient Indian environmental awareness

Unit 5: Indian Art, Literature, and Culture

- Introduction to Indian classical music, dance, painting
- Sanskrit and regional literature
- Importance of festivals and cultural unity

Unit 6: Holistic Living – Yoga, Ayurveda, and Sustainability

- Basics of Yoga and meditation
- Principles of Ayurveda and balanced living
- Indian values on harmony with nature and sustainable lifestyle

Text/Reference Books:

1) **"Introduction to Indian Knowledge System: Concepts and Applications"**
Author: V. SrinivasaChakravarthy
Publisher: IIT Madras / PHI Learning
2) **"The Indian Knowledge System"**
*Editor:*Kapil Kapoor
Publisher: Indian Institute of Advanced Study (IIAS)
3) **"Ancient Indian Knowledge and Its Relevance Today"**

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BCA107P: SEC1 – WORD PROCESSING FUNDAMENTALS

Total Marks: 100
External Examination: 70
Internal Assessment: 30
Credits: 3

Maximum Time: 3 Hrs.
Minimum Pass Marks: 35%
Lectures to be delivered: 55-60 Hrs
L:1 T:0 P: 4

Module 1: Getting Started with Word Processing

- Introduction to the Word Processor Interface (e.g., MS Word / LibreOffice Writer / Google Docs)
- Creating, Saving, Opening, and Closing Documents
- Typing and Editing Text
- Using Undo, Redo, Cut, Copy, and Paste
- File Management (Creating folders, renaming, deleting, saving in different formats like .docx, .pdf)

Module 2: Formatting Text and Paragraphs

- Font Styles, Sizes, and Colors
- Bold, Italic, Underline, Strikethrough
- Text Alignment (Left, Right, Center, Justify)
- Line and Paragraph Spacing
- Bullets and Numbering
- Borders and Shading

Module 3: Working with Pages

- Page Setup (Margins, Orientation, Size)
- Page Breaks, Section Breaks
- Headers, Footers, and Page Numbers
- Inserting Date, Time, and Symbols

Module 4: Tables and Layouts

- Inserting and Formatting Tables
- Merging, Splitting Cells
- Table Borders and Shading
- Sorting Data in Tables

Module 5: Inserting Objects and Graphics

- Inserting Pictures, Shapes, Icons, and SmartArt
- Wrapping Text around Images
- Inserting and Formatting Charts
- Adding Watermarks, Backgrounds

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Module 6: Tools for Efficient Document Creation

- Using Spell Check, Grammar Check, and Thesaurus
- Find and Replace
- Using Styles and Themes
- Creating and Applying Templates
- Track Changes and Comments

Module 7: Advanced Features

- Working with Columns
- Inserting Hyperlinks and Bookmarks
- Creating Table of Contents
- Creating Mail Merge for Letters/Envelopes/Labels

Module 8: Printing and Exporting

- Print Preview and Page Setup for Printing
- Printing Options (All pages, odd/even, specific page ranges)
- Saving and Exporting Documents as PDF

Suggested Practical Exercises

- Draft a formal letter and format it professionally
- Create a resume using a template
- Design an invitation card using shapes and text boxes
- Create a table for student marks and sort data
- Perform a mail merge for sending letters to multiple recipients
- Generate a mini project report with a table of contents, header/footer, and images

Assessment Criteria

- Accuracy and formatting
- Creative use of features (tables, images, styles, etc.)
- Layout design and presentation
- Completion and organization of content

The breakup of marks for the course:

i.	Internal Assessment	30 Marks
ii.	Viva Voce (External Evaluation)	30 Marks
iii.	Lab Record, Program Development and Execution (External Evaluation)	30 Marks
iv.	Lab Attendance	10 Marks

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