(Annexure H-3)

FACULTY OF COMPUTER SCIENCE & IT

SYLLABUS

of

COMPUTER PROGRAMMING & DATA PROCESSING

for

Master of Science (Zoology) Semester–I

(Under Credit Based Continuous Evaluation Grading System)

Session: 2024-25

The Heritage Institution
KANYA MAHA VIDYALAYA
JALANDHAR
(Autonomous)

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

SCHEME AND CURRICULUM OF EXAMINATIONS OF TWO YEAR MASTER DEGREE PROGRAMME

MASTER OF SCIENCE (ZOOLOGY)

Credit Based Continuous Evaluation Grading System (CBCEGS)

Session 2024-25

Master of Science (Zoology) Semester I										
Course Code	**Course Title**	**Course Type**	**Hours per week**	**Credit**		**Marks**				**Examination Time (in Hours)**
			L-T-P	**L-T-P**	**Total**	**Total**	**Ext.**		**CA**	
							L	**P**		
MZOM-1135	Computer Programming and Data Processing	C	2-0-2	2-0-1	3	75	40	20	15	3+3

Master of Science (Zoology) Semester–I
Session 2024-25

COMPUTER PROGRAMMING AND DATA PROCESSING
COURSE CODE: MZOM-1134

COURSE OUTCOME

After passing this course the student will be able to:

CO1: Comprehend computer fundamentals, operating system concepts and office automation software.
CO2: Work with complete office suite for making spreadsheets, documents and presentations.
CO3: Comprehend basics of C Programming Language.
CO4: Apply various control statements and arrays of C Programming Language for designing solutions to different real-world problems.

Master of Science (Zoology) Semester–I
Session 2024-25

COMPUTER PROGRAMMING AND DATA PROCESSING
COURSE CODE: MZOM-1135

Examination Time: (3+3) Hours	**Max. Marks: 75**
	Theory: 40
L-T-P: 2-0-1	**Practical: 20**
Credits: 3	**CA: 15**

Instructions for Paper Setter -

Eight questions of equal marks (8 marks each) are to set, two in each of the four sections (A-D). Questions of Sections A-D should be set from Units I-IV of the syllabus respectively. Questions may be divided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any section.

UNIT - I

Introduction to Computer capabilities, Classifications.
Computer components, Introduction to hardware and software concepts, operating systems, peripherals, I/O devices, Limitations of computer.

UNIT - II

Basic Features and usage of:
Word Processing Software: Creating, Editing, Formatting and Printing document
Spreadsheet Software: Creating, Editing, Formatting and Printing a sheet
Presentation Software: Creating, Editing, Formatting and Printing a presentation

UNIT- III

Introduction to C Programming language.
Program structure, elements, character set, constants, variables, data types, identifiers, operators and expressions.
I/O Statements: printf and scanf statement.

UNIT - IV

Control statements: if, if else, else if ladder, nesting, switch, Looping statements: do while, while, for
Arrays: Basic usage, Declaration, Initialization and Types.

References / Textbooks:

1. Anshuman Sharma, Learn Programming in C, Lakhanpal Publishers, 7th Edition.
2. E Balagurusamy, Programming in ANSI C, Tata McGraw-Hill, 2002.
3. Yashvant Kanetkar, Let Us C, BPB Publications, 2016.
4. Gurwinder Singh, Rachhpal Singh, Fundamentals of Computer and PC Software, Kalyani Publishers, 2015.
5. Anshuman Sharma, Fundamentals of Information Technology, Lakhanpal Publishers, 5th Edition.
6. Byron Gottfried, Schaum's Outline Programming with C, McGraw Hill, 1996.

Note: The latest editions of the books should be followed.