

**MAHATMA GANDHI UNIVERSITY
RESTRUCTURED SYLLABUS
M.A SANSKRIT SPECIAL VYAKARANA
PGCSS**

SEMESTER II

COURSE VI CORE VI INFORMATICS

AIM OF THE COURSE:

- *To create overall generic awareness about scope of the field of IT and to impart basic personal computing skills.*
- *To create background knowledge for the various courses in the programme.*

OBJECTIVES OF THE COURSE:

- *To introduce the basic terminology in the field of IT*
- *To impart functional knowledge about PC hardware, operations and concepts*
- *To impart functional knowledge in the use of GUI Operating System*
- *To impart functional knowledge in a standard office package (word processor, spread sheet and presentation softwares) and popular utilities*
- *To impart functional knowledge about networks and internet.*
- *To give an overview of computer application in various fields and an overall generic awareness about the scope of the field of IT*

COURSES OUTLINE:

Module–I: Introduction to programming:

Algorithm & Flow charts: Definitions, symbols used to draw flowcharts, Examples. High-level and Low-level Languages, Generations of Programming Language, Language translators: Assemblers, Compilers, Interpreters (Only concept and differences), Editor, Program Writing – Structure of the Program, top-down design, Source code, Object code, Executable file, Extensions of different files, Program Compilation, Running of a Program; Header file concept.

Module–II: Introduction Data Base & Computer Networks:

Evolution of data base systems, overview of database management systems, Relational data model.

Connecting computers, Requirements for a network, Server, Workstation, Hub/switch, Network interface card, network operating systems; Internet: brief history, World Wide Web, Websites, URL, browsers, search engines, search tips;

Module–III: Sources and Uses of digital Resources:

Academic Websites, Digital Libraries and Archives, Open Access Resources/ Journals. Electronic books, Subject Specific sources. Language Technology, Unicode, Indian Languages in computers.

Module–IV: Applications of Computers in various fields:

Science and technology, defense; Historic evolution of IT; Pioneers in IT; Debates in IT : Computer Creativity, Digital Divide, IT Policy, IT and Development etc; IT in India (major initiatives, key institutions, statistics), IT in Kerala (major initiatives, key institutions, statistics); Careers in IT.

- Alexis Leon & Mathews Leon, *Computers Today*, Leon Vikas
- Alexis Leon & Mathews Leon. *Fundamentals of Information Technology*.
- R Raman Nair & L Sulochana Devi, *Sanskrit Informatics* , CIRD, Publications Division, A4, Ganga /nagar Trivandrum ,