Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav Institute of Information Technology
Choice Based Credit System (CBCS) in Light of NEP-2020
Generic Elective Courses (GEC) (2021-2025)

COURSE CODE	CATEGORY	COURSE NAME	TEACHING&EVALUATION SCHEME					L	T	P	CREDITS
			THEORY			PRACTICAL					
			ENDSEM University Exam	Two Term Exam	Teachers Assessment*	ENDSEM University Exam	Teachers Assessment*				
GESVIIT101U	GEC	Computer Fundamentals	60	20	20	30	20	2	0	2	3

Legends: **L** - Lecture; **T** - Tutorial/Teacher Guided Student Activity; **P** – Practical; **C** - Credit;
*__Teacher Assessment__ shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Objectives:
1. Introduce the fundamentals concepts of Computer system
2. Describe the number system and its conversion.
3. Study the basic terminologies of computer programming.
4. Explain the basic terminologies of operating system and internet.

Course Outcomes:
1. Understand the basic terminologies of Computer System.
2. Evaluate the basic terminologies of Number System.
3. Write the basic programs of Computer Programming.
4. Explain the basic terminologies of Operating System and Internet.

Syllabus:

UNIT I

Input Unit - Output Unit - Storage Unit - Arithmetic Logic Unit - Control Unit - Central Processing Unit - System Concept, Primary Memory- RAM & ROM, Secondary Memory-Hard Disc & Floppy, Memory Management. Software- System Software & Application Software.

Chairperson	Chairperson	Controller of Examination	Joint Registrar
Board of Studies	Faculty of Studies	ShriVaishnavVidyapeeth	ShriVaishnavVidyapeeth
ShriVaishnavVidyapeeth	ShriVaishnavVidyapeeth	Vishwavidyalaya, Indore	Vishwavidyalaya, Indore
Vishwavidyalaya, Indore	Vishwavidyalaya, Indore		

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UNIT II

Non-positional Number System - Positional Number System - Binary Number System - Octal Number System - Hexadecimal Number System - Converting from one number system to another - Conversion examples

UNIT III

Planning the computer programme - Algorithm - Flowcharts - Symbols, Rules, Levels, Sample - Advantages and limitations of Flow Charts - Pseudo code - Examples of Pseudo code and Algorithms

UNIT IV

Introduction to Operating System, program, process, Process Management - Multi-programming - Multi-Tasking - Multi-Threading Multi-Processing - Time Sharing - Memory Management - File Management

UNIT V

World Wide Web (WWW), internet browsers e.g., Internet Explorer, Firefox, Opera, Safari, Google Chrome. E-mail, Internet, Extranet, Introduction of IP address, subnet mask and default gateway, Introduction to Network media, topology, and protocol.

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Text Books:
1. P.K. Sinha Computer fundamentals, 6th Edition 2003, BPB Publication.
2. D.P. Nagpal Computer fundamentals, revised edition 1999, S. Chand Publication.
3. B.Ram Fundamental of computer, 5th Edition 2018, New Age International Publisher.
4. V. Rajaraman, Fundamental of computer, 6th Edition 2014, PHI Learning.
5. W. Stallings Computer Networking with Internet Protocols & Technology,1st Edition 2003, Pearson.

Reference Books:
1. J. P. Tremblay and R.B. Bunt, "An Introduction of Computer Science –An Algorithmic Approach",TMH 2015.
2. Faithe Wempen , "Computing Fundamentals: Introduction to Computers ", Wiley 2015.
3. Norton, Peter, "Introduction to Computers", fourth revised, Mc-Graw-Hill 2000.
4. Reema Thareja , "Fundamental of Computers", Oxford University Press, 2014.

List of Practical's: (If Practical Credit Shown in Syllabus)
1. Study the various Input and Output devices of computer system.
2. Study the Primary and Secondary memory of computer system.
3. Experiments for burning the contents into optical disks.
4. Study the various number systems.
5. Study and Perform different MS –DOS Commands (Internal and External).
6. Create the "test" directory in the directory you are currently in using MS-DOS
7. WAP to Sum two integer numbers and print its result.

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8. WAP to find Largest of 3 numbers, Check whether even or odd.
9. WAP to Average of three numbers.
10. Email id creation, sending and receiving of email with attachments.