

Course Outcome B.Voc S/W Development

Subject: B.Voc Semester I

Name of the Course: Problem Solving through C

Course Code B23-CAP-101 (Common with B23-CAI-101, B23-CDS 101, B23-CTS-101)

Course Type: (CC/MCC/MDC/CCM/DSEC/VOC/DSE/PC/AEC/VAC)- CC

Course Learning Outcomes (CLO)- After completing this course, the learner will be able to:

CO1	Learn the basics of C program, data types and input/output statements.
CO2	Understand different types of operators, their hierarchies and also control statements of C.
CO3	Implement programs using arrays and strings.
CO4	Get familiar with advanced concepts like structures, union etc. in C language.
CO5	To implement the programs based on various concepts of C.

Subject: B.Voc Semester I

Name of the Course: Foundations of Computer Science

Course Code B23-CAP-102

Course Type: (CC/MCC/MDC/CCM/DSEC/VOC/DSE/PC/AEC/VAC)- CC

Course Learning Outcomes (CLO)- After completing this course, the learner will be able to:

CO1	Understand the basics of computer
CO2	Learn about I/O devices and operating systems
CO3	Understand internet and its services
CO4	Learn about the threats and security concepts on computers
CO5	To understand the working of operating system, internet and security related concepts.

Subject: B.Voc Semester I

Name of the Course: Logical Organization of Computer

Course Code B23-CAP-103

Course Type: (CC/MCC/MDC/CCM/DSEC/VOC/DSE/PC/AEC/VAC)- CC

Course Learning Outcomes (CLO)- After completing this course, the learner will be able to:

CO1	Understand number systems, error detecting correcting code and representations of numbers in a computer system.
CO2	Understand computer arithmetic and Boolean algebra and simplification of Boolean expressions.
CO3	Understand working of logic gates and design various combinational circuits using these logic gates.
CO4	Understand working of different types of flip-flops and design different types of registers.
CO5	To understand the practical aspects of logical organization of computer..

Subject: B.Voc Semester I

Name of the Course: Mathematical Foundations for Computer Science-I

Course Code B23-CAP-104

Course Type: (CC/MCC/MDC/CCM/DSEC/VOC/DSE/PC/AEC/VAC)- CC-M

Course Learning Outcomes (CLO)- After completing this course, the learner will be able to:

CO1	Gain the knowledge of set theory, types of sets and operations on sets. Understand various concepts of matrices and determinants, and acquire the cognitive skills to apply different operations on matrices and determinants.
CO2	Have the knowledge of the basic concepts of complex numbers and acquire skills to solve linear quadratic equations.
CO3	Gain the knowledge of the concepts of Arithmetic progression, Geometric progression and Harmonic progression, and find A.M., G.M. and H.M. of given numbers.
CO4	Understand the concept of differentiation
CO5	Attain the skills to make use of the learnt concepts of Introductory Mathematics in multidisciplinary learning contexts and to know their applications

Subject: COMPUTER SCIENCE Semester I

Name of the Course: Essentials of Python

Course Code B23-SEC-104

Course Type: (CC/MCC/MDC/CCM/DSEC/VOC/DSE/PC/AEC/VAC)- SEC

Course Learning Outcomes (CLO)- After completing this course, the learner will be able to:

CO1	Understand the basic concepts of Python
CO2	Learn the syntax and semantics of Python Programming Language.
CO3	Illustrate the process of structuring the data using lists, tuples and dictionaries.
CO4	Write Python functions to facilitate code reuse and manipulate strings.
CO5	Understand the basic concepts of Python Programming practically.