



# MANNAR THIRUMALAI NAICKER COLLEGE (Autonomous)

(An Autonomous Institution Affiliated to Madurai Kamaraj University)

(Accredited with "A" Grade by NAAC)

Pasumalai, Madurai -625004

Phone: +91-452-2370940 (Aided), +91-452-2371751 (SF) @ Email: [princemtnc@yahoo.co.in](mailto:princemtnc@yahoo.co.in),

[mtncollege.org@live.com](mailto:mtncollege.org@live.com) Website: <https://www.mannarcollege.ac.in/>

Pasumalai Post, Madurai - 625 004

## B.VOC. IN SOFTWARE AND DEVELOPMENT

PO No.	PROGRAMME OUTCOMES
PO-1:	To Provide judicious mix of skills relating to a profession and appropriate content of general education.
PO-2:	To ensure that the students have adequate knowledge and skills, so that they are work ready at each exit point of the programme.
PO-3:	To provide flexibility to students by means of pre-defined entry and multiple exit points.
PO-4:	To integrate NSQF within the undergraduate level of higher education in order to enhance employability of the graduates and meet industry requirements. Such graduates apart from meeting the needs of local and national industry are also expected to e equipped to become part of the global workforce.
PO-5	To provide vertical mobility to students coming out of (a) 10+2 with vocational subject and (b) Community College.

PSO No.	PROGRAMME SPECIFIC OUTCOMES
PSO-1:	To serve as Assistant Software Publisher, System Manager in software development and the role of modeling.
PSO-2:	To analyze, identify and define the technology required to build and implement a web site.
PSO-3:	To work as Programmer, Entry level software developer, web Designer in software industry.
PSO-4:	To apply the skills to edit professionally, create digital content, design print and web-based products, develop and manage writing and editing projects.

Course Title	LIFE SKILLS
Code	18VSWG11
CO No.	Course Outcomes
CO-1	understand concepts, meaning, definitions & fundamentals of life skills.
CO-2	provide them a thorough grounding in the basics of the subject
CO-3	develop and articulate respect for the diversity of talents, ways of knowing and learning



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Course Title	COMMUNICATIVE ENGLISH
Code	18VENG11
CO No.	Course Outcomes
CO-1	acquire the basic language skills.
CO-2	speak and writewithout mistake
CO-3	developt confidence in their voice

Course Title	DISCRETE MATHEMATICS
Code	18VMTG11
CO No.	Course Outcomes
CO-1	know the basic concepts of sets and functions
CO-2	know the concepts of logic
CO-3	know the relationships between the graph theory and networks

Course Title	PROGRAMMING IN C
Code	18VSDS11
CO No.	Course Outcomes
CO-1	Develop programming skills using the fundamentals and basics of C language.
CO-2	Understand the concepts of Arrays and Strings.
CO-3	Learn the basic concepts of structures and unions.

Course Title	WEB DESIGNING
Code	18VSDS12
CO No.	Course Outcomes
CO-1	Develop the skill and knowledge of script languages.
CO-2	Understand the knowledge of Web authoring tools.
CO-3	Gather the knowledge of Flash and website updation.

Course Title	DESKTOP PUBLISHING LAB
Code	18VSDS13
CO No.	Course Outcomes
CO-1	prepare students having skills to work in the field of content designing or desk top publishing.
CO-2	know the basic components of the computer.
CO-3	learn the basic knowledge in Photoshop and PageMaker.



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Course Title	PROFESSIONAL SKILLS
Code	18VSWG21
CO No.	Course Outcomes
CO-1	Acquire skills to manage time and to recognize the importance of motivation and goal setting
CO-2	Understand concepts, meaning of social skills and its importance
CO-3	Apply workplace etiquettes and preparing for the job.

Course Title	PROFESSIONAL ENGLISH
Code	18VENG21
CO No.	Course Outcomes
CO-1	Expand their vocabulary
CO-2	Become effective communicators
CO-3	Acquire the career skills

Course Title	SOFTWARE ENGINEERING
Code	18VSDG21
CO No.	Course Outcomes
CO-1	Understand basic concepts of software engineering.
CO-2	Compare different cost estimation technique in software engineering.
CO-3	Learn the design techniques in software engineering.

Course Title	PROGRAMMING IN C AND C++ LAB
Code	18VSDS21
CO No.	Course Outcomes
CO-1	understand the concept of procedural programming using C++.
CO-2	learn the basic knowledge about pointers.
CO-3	understand the concept of file handling and its operation.

Course Title	WEB TECHNOLOGY LAB
Code	18VSDS22
CO No.	Course Outcomes
CO-1	Understand basic concepts of HTML elements.
CO-2	Analyse the principles of CSS and XSL.
CO-3	Know the essential features of webservises.



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Course Title	INTERNSHIP
Code	18VSDS23
CO No.	Course Outcomes
CO-1	
CO-2	
CO-3	
CO-4	
CO-5	
CO-6	

Course Title	LIFE COPING SKILLS
Code	18VSWG31
CO No.	Course Outcomes
CO-1	Demonstrate skills to handle fear and anger
CO-2	Explain the management of conflict
CO-3	Understand the symptoms depression and its management

Course Title	GENERAL BUSINESS COMMUNICATION
Code	18VENG31
CO No.	Course Outcomes
CO-1	Identify the importance of communication in business
CO-2	Acquire communication skills in business.
CO-3	Imitate formal enquiry and elicit formal response

Course Title	ENVIRONMENTAL STUDIES
Code	18VEVG31
CO No.	Course Outcomes
CO-1	Impart knowledge on the importance of environmental education and ecosystem.
CO-2	Acquire knowledge about environmental pollution- sources, effects and control measures of environmental pollution
CO-3	Understand the various energy sources, exploitation and need of alternate energy resources. To acquire knowledge with respect to biodiversity, its threats and its conservation and appreciate the concept of interdependence
CO-4	Make the student to understand the various pollution problems control mechanisms



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Course Title	STATISTICS AND NUMERICAL METHODS
Code	18VMTG31
CO No.	Course Outcomes
CO-1	Develop skills in basic statistical concepts.
CO-2	Understand the concepts of deviation.
CO-3	Learn about various techniques on correlation and regression
CO-4	Understand the concepts to determine approximate solutions to the systems of linear equations.
CO-5	Understand the concepts of Solving Simultaneous equations.

Course Title	COMPUTER ORGANIZATION
Code	18VSDS31
CO No.	Course Outcomes
CO-1	Identify various Number systems and Logic gates.
CO-2	Expose the students with different ways of communicating with I/O devices and standard I/O interfaces.
CO-3	Understand the Basic Structure and Operation of Digital Computer.
CO-4	Familiarize the students with hierarchical memory system including cache memories and virtual memory.

Course Title	MULTIMEDIA TECHNOLOGY
Code	18VSDS32
CO No.	Course Outcomes
CO-1	Understand the basics of multimedia and its components.
CO-2	Identify the basic hardware and software requirements for multimedia development and playback.
CO-3	Develop their animated video using multimedia.

Course Title	PROGRAMMING IN JAVA LAB
Code	18VSDS33
CO No.	Course Outcomes
CO-1	Understand the concept of object oriented programming.
CO-2	Understand the concept of multithreading, package and exception.
CO-3	Acquire programming knowledge in Java



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Course Title	EMPLOYABILITY SKILLS
Code	18VSWG41
CO No.	Course Outcomes
CO-1	Acquire skills in communication
CO-2	Discuss the importance of team work at workplace
CO-3	Demonstrate skills for effective interpersonal relations and emotional intelligence competencies

Course Title	WRITTEN BUSINESS COMMUNICATION
Code	18VENG41
CO No.	Course Outcomes
CO-1	Experiment orders and their executions in business
CO-2	Construct fair complaints
CO-3	Draw variety of letters used in business

Course Title	VALUE EDUCATION
Code	18VVLG41
CO No.	Course Outcomes
CO-1	Inspire students to develop their personality and social values based on the principles of human values.
CO-2	Develop a sense of Love, Peace and Brotherhood at the local, national and international level.
CO-3	Enable the students to understand the social realities and to inculcate essential value system towards building a health society
CO-4	Enable the students to understand the social realities and to inculcate an essential value system towards building a health society

Course Title	ENTERPRISE RESOURCE PLANNING
Code	18VSDG41
CO No.	Course Outcomes
CO-1	Understand the business process of an enterprise
CO-2	Grasp the activities of ERP project management cycle
CO-3	Understand the emerging trends in ERP developments



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Course Title	COMPUTER NETWORKS
Code	18VSDS41
CO No.	Course Outcomes
CO-1	Know about the goals of networking and the web.
CO-2	Know about the Host-to-Host communication, packet switching and the logical connections.
CO-3	Enrich knowledge in various networks legal

Course Title	PROGRAMMING IN PHP LAB
Code	18VSDS42
CO No.	Course Outcomes
CO-1	Learn about creating dynamic web pages
CO-2	Understand the concept of File handling and Managing sessions in PHP
CO-3	Acquire the knowledge of maintaining the database in MySQL

Course Title	INTERNSHIP
Code	18VSDS43
CO No.	Course Outcomes
CO-1	
CO-2	
CO-3	
CO-4	

Course Title	CAREER GUIDANCE
Code	18VSWG51
CO No.	Course Outcomes
CO-1	Know components of career guidance
CO-2	Describe about factors affecting career choice
CO-3	Explain the career planning
CO-4	Discuss the problems of work alcoholics
CO-5	Apply the stress management techniques in working environment



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Course Title	FUNDAMENTALS OF DATA STRUCTURES USING C
Code	18VSDG51
CO No.	Course Outcomes
CO-1	Understand the basic principles of linked lists and its operations.
CO-2	Apply searching on various data structures.
CO-3	Examine the appropriate searching and sorting techniques for various problems.
CO-4	Evaluate problem involving graphs, trees and queues.
CO-5	Formulate various techniques for solving problems like sorting, searching, insertion and deletion of data.

Course Title	BUSINESS INFORMATICS
Code	18VSDG52
CO No.	Course Outcomes
CO-1	Understand the basic principles of Network Infrastructure and locate business information in to internet.
CO-2	Apply cash transactions electronically by using the electronic devices.
CO-3	Examine the various security attacks for saving business information when using online payment.
CO-4	Recommend the Intellectual Property Rights for owning the company.
CO-5	Improve the cash transaction through cash cards by using internet

Course Title	DATABASE MANAGEMENT SYSTEM
Code	18VSDS51
CO No.	Course Outcomes
CO-1	Discover the concepts of Entity Relationship model and relational data manipulation.
CO-2	Determine the use of normalization and functional dependency in designing a database.
CO-3	Compare various data models used in database design.
CO-4	Criticize the importance of database manipulation language.
CO-5	Design queries using SQL and programs using PL/SQL.

Course Title	VISUAL PROGRAMMING LAB
Code	18VSDS52
CO No.	Course Outcomes
CO-1	Summarize the concepts of event driven programming.
CO-2	Identify standard and custom controls of visual studio environment..
CO-3	Analyze the use of looping and decision control structures in visual programming.
CO-4	Make use of intrinsic controls and dialog boxes for simple programming tasks.
CO-5	Design applications using data controls.





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Course Title	TECHNOLOGY TRENDS IN IT
Code	18VSDS53
CO No.	Course Outcomes
CO-1	Discover the building blocks of Internet of Things and characteristics.
CO-2	Computer different applications of IoT.
CO-3	Analyze big data analytics and its approaches in industries.
CO-4	Recommend the importance of wearable technologies.
CO-5	Design and Develop a security architecture for an organization.

Course Title	INTERVIEW SKILLS
Code	18VSWG61
CO No.	Course Outcomes
CO-1	Explain the components of curriculum vitae
CO-2	Prepare for the interview questions
CO-3	Anticipate interview questions according to job requirement
CO-4	Practice interview skills either as an observer, an interviewer, or an interviewee.
CO-5	Use mock situations to develop awareness on interviewing techniques to prepare for future interviews.

Course Title	MANAGEMENT INFORMATION SYSTEMS
Code	18VSDG61
CO No.	Course Outcomes
CO-1	Describe the role of information technology and information system in business and reproduce a working knowledge of concepts related to information technology
CO-2	Apply the knowledge previously acquired of emerging technologies
CO-3	Analyze how information technology impact a firm.
CO-4	Interpret how to use information technology to solve business problem
CO-5	Organize the impact of information system in society

Course Title	.NET PROGRAMMING
Code	18VSDG62
CO No.	Course Outcomes
CO-1	Represent the insights of the Internet programming
CO-2	Demonstrate design and implement complete application over the web
CO-3	Connect MS.NET framework developed by Microsoft.
CO-4	Evaluate the usage of recent platforms like C#, XML, and ASP.Net which is used in the development of web applications
CO-5	Defend the deployment and the security in the .NET framework.



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Course Title	PROGRAMMING IN PYTHON LAB
Code	18VSDS61
CO No.	Course Outcomes
CO-1	Identify the basic programming concepts in Python.
CO-2	Apply functions, conditionals, iteration and recursion to reduce complexity in Python.
CO-3	Analyze the importance of using Lists, Dictionaries and Tuples.
CO-4	Know the importance of built-in methods used in Python to manipulate strings.
CO-5	Design object oriented programs using python classes.

Course Title	PROJECT
Code	18VSDS62
CO No.	Course Outcomes
CO-1	Describe the fundamental principles of software project management.
CO-2	Demonstrate a sound technical knowledge of their selected project topic.
CO-3	Identify the problem, characterize the formulation and confirm a solution.
CO-4	Evaluate and implement a software project using programming languages like Visual Basic, JAVA, PHP, etc.
CO-5	Design solutions to complex problems utilizing a systems approach.

Course Title	INTERNSHIP
Code	18VSDS63
CO No.	Course Outcomes
CO-1	
CO-2	
CO-3	
CO-4	
CO-5	