

Bhujbal Knowledge City
MET's Institute of Engineering, Adgaon Nashik-422003
Department of MCA

Course Outcomes		
FYMCA Semester-I		
310901 & C++ Programming	310901.1	Students will be able to write logic for solving programming problems.
	310901.2	Students can develop C & C++ application.
	310901.3	Students will acquire the knowledge of Object Oriented Features.
	310901.4	Students can create applications for File Handling.
310902 Computer Oraganization	310902.1	Students can understand concept of digital computer.
	310902.2	Understanding of combinational and sequential circuits.
	310902.3	Students can understand types of memory,buses used in computer system.
	310902.4	Students can understand microprocessor concepts with architechture and organisation of different units with its function.
310903 Priciples of Programming Practices	310903.1	To be able to express computational solutions in the main programming idioms.
	310903.2	To be able to select an appropriate programming language for solving a computational problem, with justification.
	310903.3	To know and understand the principal programming abstractions & functional programming language.
310904 Discreate Mathematics	310904.1	To understand the notion of mathematical thinking, mathematical proofs and algorithmic thinking and be able to apply them in problem solving.
	310904.2	To use effectively algebraic techniques to analyze basic descrete structures and algorithms.
	310904.3	To understand some basic properties of graphs and related descrete structures and be able to relate these to practical examples.
	310904.4	Students should be able to formulate problems precisely, solve the problems, apply formal proof techniques, and explain their reasoning clearly.
310905 Probability & Statistics	310905.1	Effective use of probability & statistics in process improvement.
	310905.2	Proper understanding of variation and quality of a product. & Detailed knowledge of basic concepts of probability and statistics.
	310905.3	Proper understanding of regression analysis. & Improved ability to study design of experiments.
	310905.4	Effective use of the subject to understand statistical process control and process capability.
310906 Business Communications	310906.1	Students coming from various graduation disciplines lack the awareness of the professional culture.It provides them understanding of professional life.
	310906.2	The professional working environment of current times expects effective and efficient business communication.It helps to enhance their communication skills.
	310906.3	To enable students to plan and draft communication documents such as letters, reports, presentations etc.
	310906.4	To develop and nurture the soft skills of the students through individual and group activities.
310907 & C++ Laboratory	310907.1	Students will be able to build application using C/C++.
	310907.2	After learning this course student will able to implement the OOP'S features.
	310907.3	Student will know how to implement applications using files.

LABORATORY	310907.4	Students will be able to write logic for solving programming problems.
310908 Open Source Tools Laboratory	310908.1	After learning this course student will know the various data processing or editing features.
	310908.2	Student will know the concept of Internet , how to access the web pages etc
FYMCA Semester -II		
310909 Java Programming	310909.1	Students will get acquainted the core java concepts
	310909.2	Students can develop the various application like forms/applets/console in Java.
	310909.3	Students can develop GUI based application with database connectivity.
	310909.4	Students are able to write java based application using Packages/Exception/Multithreading.
310910 Data Structures using C	310910.1	Ability to design and implement various data structures.
	310910.2	Able to choose the data structure that efficiently model the information in a problem.
	310910.3	Ability to design and implement various algorithms.
310911 Web Technologies	310911.1	To understand the web architecture and web services.
	310911.2	To know the fundamentals of client side scripting such as vbscript and apply it for data validation.
	310911.3	To design interactive web pages using html and s tyle sheets.
	310911.4	To acquire knowledge of xml fundamentals and usage of xml technology.
310912 System Analysis & Design	310912.1	Describe the information systems development life cycle.
	310912.2	Show how the modern approaches differ from the traditional approach to.
	310912.3	Systems analysis and design Construct a Cost /Benefit analysis Construct a scope Statement and Baseline plan.
	310912.4	Explain different methods to elicit system requirements.
310913 Management Theory & Practices	310913.1	Students should be able to identify and define the basic terminology and vocabulary used in management.
	310913.2	Summarize how the field of management has evolved and its major theoretical contributions.
	310913.3	How to apply the principal concepts and models in the workplace & recognize how management roles play out in real organizations . More important, developing critical thinking/approach to the organizations.
	310913.4	The basic management concepts and use of management principles in the organization will be introduced to student through this elaborative subject.
310914 Web Technologies Laboratory	310914.1	To Design the fundamentals of client side scripting such as vbscript and apply it for data validation
	310914.2	To design interactive web pages using html and style sheets and To acquire knowledge of xml fundamentals pages and usage of xml DTD and schemas.
	310914.3	To understand the knowledge about creating pages in DHTML and VBScript.
	310914.4	To get the knowledge of creation of basic WebPages in PHP and to Build and consume web services.
310915 Java Programming Laboratory	310915.1	Students can develop the application in classes, objects and also in various other core concepts.
	310915.2	Students are able to write java based program using packages/exception.
	310915.3	Students can create small console and standalone application with database connectivity.

	310915.4	With the help of new concepts such as AWT, Swing and Applet, student's technical skills enhanced.
310916 Data Structures Lab	310916.1	Ability to design and implement various data structures.
	310916.2	Able to choose the data structure that efficiently model the information in a problem.
	310916.3	Ability to design and implement various algorithms
SYMCA Semester-I		
410901 Advanced Java	410901.1	Core java concepts of the students are enhanced.
	410901.2	Students can develop the web application in jsp, servlet with the help of database connectivity.
	410901.3	With the knowledge of new concepts such as EJB, Hibernate and Spring, technical skills are enhanced.
	410901.4	Students will get the full insight of Advance Java technologies and can use it in real world.
410902 DBMS	410902.1	After learning this course students will able to write the SQL queries and PL/SQL Programs.
	410902.2	Student will able to normalize the database upto BCNF.
	410902.3	Students will be able write various hbase commands.
410903 Operating Systems	410903.1	Master various process management concepts including scheduling, synchronization deadlocks Be familiar with multithreading, linux commands.
	410903.2	Master concepts of memory management including virtual memory .
	410903.3	Master system resources sharing among the users
	410903.4	Master issues related to file system interface and implementation, disk management
410904 OOAD	410904.1	Will explain the object- oriented software development process, including object-oriented methodologies and work flow
	410904.2	Will be able to justify designs based on design principles and patterns
	410904.3	To understand object oriented approach ie realistic for system development
	410904.4	To get acquainted with UML diagrams and visualize system in detail.
410905 Operations Research	410905.1	Apply and analyze mathematical optimization functions to various applications.
	410905.2	Illustrate the need to optimally utilize the resources in various types of industries.
	410905.3	Demonstrate cost effective strategies in various applications in industry
	410905.4	To facilitate with mathematical and computation modeling of real decision making problems including the use of modeling tools and computational tools as well as analytics skills to evaluate the problems.
410906 HBASE Lab	410906.1	Student will able to execute various DDL,DML,DRL,TCL and PL/SQL Queries in RDBMS Software Packages such as Oracle.
	410906.2	Student will able perform various hbase commands.
	410906.3	Students will able design front end applications in VB.NET.
410907 Advance Java Lab	410907.1	Develop the core concepts of the students.
	410907.2	Students can develop the application in jsp, servlet with the help of database connectivity.
	410907.3	With the knowledge of new concepts such as EJB, Hibernate and Spring, technical skills are enhanced.
	410907.4	Student can develop java enabled web and enterprise application.
	410908.1	To study realistic approach of software development.

410908 UML Lab – umbrella	410908.2	Create a requirements model using UML class notations and use-cases based on statements of user requirements, and to analyze requirements models given to them for correctness and quality.
	410908.3	Create the OO design of a system from the requirements model in terms of a high-level architecture description, and low-level models of structural organization and dynamic behavior using UML class, object, and sequence diagrams.
	410908.4	Providing system architects, software engineers, and software developers with tools for analysis, design, and implementation of software-based systems as well as for modeling business and similar processes.
SYMCA Semester-II		
410909 Advanced Web Technology	410909.1	Ability to create a console application in .net.
	410909.2	Ability to create a web application in .net.
	410909.3	Ability to create a window application in .net.
	410909.4	Ability to create webservices and database connectivity application.
410910 Banking and FAM	410910.1	To impart basic Banking and Financial Accounting Knowledge that is required for a career as Software Developer.
	410910.2	Identify and define the basic terminology and vocabulary used in Financial accounting.
	410910.3	Explore their software career in the field of accounts.
	410910.4	Accounting Knowledge is Required all through the professional career even if a person takes initiative to become an entrepreneur.
410911 CN & Information Security	410911.1	Able to Recognize the different internetworking devices and their functions.
	410911.2	Student can Understand the role of protocols in networking.
	410911.3	Analyze the features and operations of various application layer protocols such as Http, DNS, and
	410911.4	Able to understand the importance of network security and various cryptography algorithms.
410912 Elective I (cyber law)	410912.1	To learn different aspects of Information Security over Network
	410912.2	enable learner to understand, explore, and acquire a critical understanding Cyber Law.
	410912.3	To get knowledge of cyber space securities and laws governing them make learner conversant with the social and intellectual property issues emerging from 'Cyberspace.
	410912.4	develop competencies for dealing with frauds and deceptions (confidence tricks, scams) and other cyber crimes for example, child pornography etc. that are taking place via the Internet;
410912 Elective I (ISA)	410912.1	Describe the information systems development life cycle.
	410912.2	Show how the modern approaches differ from the traditional approach to.
	410912.3	Systems analysis and design construct a Cost /Benefit analysis Construct a scope Statement and Baseline plan.
	410912.4	Explain different methods to elicit system requirements.
410913 Adv DBMS	410913.1	After learning this course students will get the structure of database system and its components.
	410913.2	Students will get various object oriented features.
	410913.3	Students will get the concepts of nosql.
410914 WT Lab	410914.1	Ability to create a console application in .net.
	410914.2	Ability to create a web application in .net.
	410914.3	Ability to create a window application in .net.
	410914.4	Ability to create webservices and database connectivity application.

410915 Advance DBMS Lab	410915.1	After learning this course students will able to write various complex queries in sql.
	410915.2	Students will able to write joins queries.
	410915.3	Students will able to write object oriented queries.
	410915.4	Students will able to do the installation of hadoop.
410916 Network & Security Lab	410916.1	Have an ability to Recognize the different internetworking devices and their functions.
	410916.2	Able to explain the implementation of echo server.
	410916.3	Analyze the features and operations of various application layer protocols such as Http, DNS, and SMTP.
	410916.4	Ability to implement symmetric and asymmetric key cryptography algorithms.
TYMCA Semester-I		
510901 Recent Technologies in IT	510901.1	Students can easily create application in various recent concept.
	510901.2	Students understand the new technology new concepts such as LAMP
	510901.3	Students understand the new technology new concepts such as PHP.
	510901.4	Students understand the new technology new concepts such as MySQL.
510902 Software Testing and Quality Assurance	510902.1	Have an ability to apply software testing knowledge and engineering methods to software applications.
	510902.2	Have an ability to design and conduct a software test process for a software testing project.
	510902.3	Have basic understanding and knowledge of contemporary issues in software testing, such as component-based software testing problems also can understand which testing strategy can be useful for perticulaf application
	510902.4	Have basic understanding and knowledge of software testing tools such as selenium which introduce automation testing.
510903 Software Engineering	510903.1	The ability to analyze, design, verify, validate, implement, apply, and maintain software systems.
	510903.2	The ability to appropriately apply discrete mathematics, probability and statistics, and relevant topics in computer science and supporting disciplines to complex software systems
	510903.3	The ability to work in one or more significant application domains.
	510903.4	The ability to manage the development of software systems.
510904 Data warehousing, data mining and BI	510904.1	An ability to analyze and interpret data.
	510904.2	Ability to use and implement BI Tools.
	510904.3	Students start thinking about machine learning & data analytics.
510905 Elective II	510905.1	After learning this course student will familier with basic concepts of wireless networking.
	510904.2	Students will get the basics of mobile phone technologies such as 1G, 2G,3G,4G.
	510905.3	Students will able to devlop the android apps using the android studio.
510906 RTIT Lab	510906.1	Students can easily create application in various recent concept.
	510906.2	Students understand the new technology new concepts such as LAMP
	510906.3	Students understand the new technology new concepts such as PHP
	510906.4	Students understand the new technology new concepts such as MySQL.

510907 STQA Lab	510907.1	Have an ability to apply software testing knowledge and engineering methods.
	510907.2	Have an ability to Prepare Test Plan, Test Case and Defect Repository.
	510907.3	Have an ability to identify the needs of software test automation, and define and develop a test tool to support.
	510907.4	Have an ability to basic understanding and knowledge of software testing tools such as selenium which introduce automation testing.
510908 Mini Project #1	510908.1	After this course student will know how to implement software engineering concepts, SDLC.
	510908.2	Students will learn Software Project Management.
TYMCA Semester-II		
510909 Major Project	510909.1	Ability to do some innovative work with applying the knowledge gained from various courses undergone in the earlier years.
	510909.2	Able to do project planning & management.
	510909.3	Able to know the complete project life cycle and the project time estimation.
	510909.4	Able to work in a team/company. Follow work ethics and HR rules in company.
510910 Seminar on Domain of Major Project #2	510910.1	Apply concepts and practices of their field of experience to develop and effectively present their semester project.