Bhujbal Knowledge City

MET's Institute of Engineering, Adgaon Nashik-422003

Department of MCA

Course Outcomes

Course Outcomes				
	240004.4	FYMCA Semester-I		
310901		Solve real world problems logically by using set and induction approaches.		
Discrete		Describe and implement relations and functions.		
		Apply logical reasoning to solve a variety of problems.		
Mathematics		Apply statistical concepts to solve basic problems.		
and Statistics		Solve the problems of Discrete Distributions and Continuous Distributions.		
		Explain various Descriptive Statistical concepts		
		Explain the Complexity of Algorithms & fundamentals of Data Structures.		
310902		Describe representation & application of Linked List		
Data		Write programs that uses stacks, queues.		
Structures and		Apply nonlinear data structure trees to solve mathematical problems.		
Algorithms		Explain representations & the applications of graphs.		
		Implement different searching and sorting algorithms.		
310903		Explore the basics of OOP		
Object		Analyze the strengths of object oriented programming		
Oriented		Design and apply OOP principles for effective programming.		
Programming		Develop programming application using object oriented programming language C++		
1.05.011115		Achieve applicability of OOP		
		Percept the utility of OOP for advanced programming		
	310904.1	Choose and apply appropriate lifecycle model of software development		
310904	310904.2	Analyze software requirements by applying various modelling techniques		
Software	310904.3	Describe principles of agile development, discuss the SCRUM process and distinguish Agile process model from		
Engineering &	510904.5	other process models		
Project	310904.4	Describe project schedule and cost estimation		
Management	310904.5	Understand IT project management through life cycle of the project and future trends in IT Project Management.		
	310904.6	Define ethics and understand its importance in project leadership.		
		Understand the need, usage and importance Management Functions, Organisational structure and Information		
310905	310905.1	Systems.		
Information	240005 2	Understand the Information Systems, Project Management, Managing Data resources, Knowledge		
Systemsand	310905.2	Management, Business Process Integration and Enterprise Systems.		
Engineering	310905.3	Understand the Management Information Systems Applications using in an Organization.		
Economics		Elaborate Managerial Decision Making Models and applying to Business Intelligence.		
	310905.5	Implement the basic Accounting concepts in the banking and financial applications		
		Apply the basic concepts of cost accounting in real world problem		
		Implement elementary data structures such as Arrays, linked lists		
310906		Implement representation & application of Linked List		
Data Structures		Demonstrate practical knowledge on the applications of stacks, queues		
and Algorithms		Implement nonlinear data structure trees to solve mathematical problems.		
Laboratory		Implement representations & the applications of graphs.		
-		Implement different searching and sorting algorithms.		
		Able to Understand OOPs Concept, features, Data types, Operators & Conversions in program design.		
24000-		Able to Understand & Apply the concepts of Classes, Objects, friend function, constructors & destructors in		
310907	310907.2	program design.		
OOP	310907.3	Able to Understand & Design various forms of inheritance, String classs, calling base class constructors.		
Laboratory		Able to Apply & Analyze operator overloading, runtime polymorphism.		
		Able to Apply & Analyze Generic Programming.		
·		Implement Object Oriented Programs using templates and exceptional handling concepts.		
		Interpret the fundamental Python syntax and semantics and be fluent in the use of Python control flow		
310908	310908.1	statements.		
Python	310908.2	Express proficiency in the handling of strings and functions.		
Programming		Articulate the Object-Oriented Programming concepts using Python.		
Laboratory		Create Python programs by utilizing the data structures like lists, dictionaries, tuples and sets.		
		Design program using string manipulation functions.		
		Implement OOP"s concept in Python.		
	210200'0	Apply business communication strategies and principles to prepare effective communication		
	310909.1			
l		for domestic and international business situations		

I	210000.2	Identify othical local sultural and alpha licence offecting hypinace communication
310909		Identify ethical, legal, cultural, and global issues affecting business communication.
Business		Utilize analytical and problem solving skills appropriate to business communication.
Communicatio		Participate in team activities using collaborative work skills.
n Lab	310909.5	Select appropriate organizational formats and channels used in developing and presenting
	210000 C	business messages. Communicate via electronic mail, Internet, and other technologies.
		Deliver an effective oral business presentation
2100104		Have ability of basic communication.
310910A		
		Have the knowledge of Japanese script. Get introduced to reading , writing and listening skills
I-Foreign		Will develop interest to pursue professional Japanese Language course.
Language-		Generate awareness about number of people dyeing every year in road accidents, traffic rules and
310910B		characteristics of accident.
Audit Course 1		Gain information and knowledge about people responsible for accidents and their duties.
AC1-II: Road		Understand the importance of multidisciplinary approach to planning for traffic safety and rehabilitation.
Safety		Improve Road safety in developing Country.
	5109106.4	FYMCA Semester-II
	2100121	Design E-R Model for given requirements and convert the same into database tables.
		Use database techniques such as SQL & PL/SQL.
310912		
Database		Use modern database techniques such as NOSQL.
Management	310912.4	Explain transaction Management in relational database System.
System	310912.5	Describe different database architecture and analyses the use of appropriate architecture in real time
		environment.
		Students will be able to use advanced database Programming concepts Big Data – HADOOP
	310913.1	Analyze the requirements for a given organizational structure to select the most appropriate
		networking architecture, topologies, transmission mediums, and technologies.
		Demonstrate design issues, flow control and error control.
310913	310913.3	Analyze data flow between TCP/IP model using Application, Transport and Network Layer protocols.
Computer	310913.4	Illustrate applications of Computer Network capabilities, selection and usage for various
Network		sectors of user community.
	310913.5	Illustrate Client-Server architectures and prototypes by the means of correct standards and technology.
		Demonstrate different routing and switching algorithms.
		Describe the core concept of Java programming
310914		Discover the need for working with the multithreading and file handling
Java		Illustrate the purpose of applet and AWT in Java programming
Programming		Indicate the use of database connectivity using Java Programming
		Articulate the networking concepts in Java
		Implement Java Servlet and JSP concept in Java
		Fundamental understanding of the role of Operating Systems.
310915		To understand the concept of a process and thread.
Operating		To apply the concept of process scheduling.
System		To apply the concept of process synchronization, mutual exclusion and the deadlock
		To realize the concept of disk scheduling and File system
		To understand the various memory management techniques.
310916A		Describe the concept and technique of Wireless telephony.
Elective-I-		Explain the concept of wireless networking.
Mobile		Describe data management issue of mobile wireless network. Discuss the mobile operating system
Computing		Discuss the mobile operating system Design Android mobile application.
Computing		Manage database and features of mobile application.
	310310A.0	Describe the modern view of AI as the study of agents that receive precepts from the Environment and perform
	310916B.1	actions.
310916B		actions.
Elective I-	310916B.2	Apply basic principles of AI in solutions that require problem solving, inference, perception, knowledge
Artificial	3100160 2	representation, and learning. Describe the use of various search techniques
Intelligence		Develop knowledge of decision making methods
intelligence		Explain about AI techniques for logical planning
		Explain about AI techniques for logical planning Explain the concept of Expert systems
		Analyze and evaluate the cyber security needs of an organization.
310916C		Conduct a cyber security risk assessment.
Elective I		Measure the performance and troubleshoot cyber security systems.
(Cyber		Implement cyber security solutions.
Security)		Be able to study cyber security, information assurance, and cyber/computer orensics software/tools.
Jecunty		Identify the key cyber security vendors in the marketplace.
1	2102100.0	including the key cyber security vehicles in the marketplace.

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	310916D.1	Understand the structure of a block chain and why/when it is better than a simple distributed database
		Analyze the incentive structure in a block chain based system and critically assess its functions, benefits and
	310916D.2	vulnerabilities
310916D	24 004 CD 2	
LIECTIVE-I DIOCK	310916D.3	Explain Nakamoto consensus. Describe differences between proof-of-work and proof-of-stake consensus.
Chain	310916D.4	Understand what constitutes a "smart" contract, what are its legal implications and what it can and cannot do,
	0100100.	now and in the near future
	310916D.5	Attain awareness of the new challenges that exist in monetizing businesses around block chains and smart
	310916D.6	contracts State-of-the-art, open research challenges, and future directions.
310917		To install and configure database systems.
Database		To analyze database models & amp; entity relationship models.
Management		To design and implement a database schema for a given problem-domain.
System		To understand the relational and document type database systems.
Laboratory		To populate and query a database using SQL DML/DDL commands.
		To populate and query a database using MongoDB commands. Understand the basics of Linux commands and program the shell of Linux.
		Develop various system programs for the functioning of operating system.
		Implement basic building blocks like processes, threads
310918	310918.4	Develop various system programs for the functioning of OS concepts in user space like concurrency control and
Operating System Lab	310918.4	file handling in Linux.
System Lab	310918.5	Implement page replacement algorithm.
	310918.6	Develop the system program for the functioning of OS concepts in kernel space like embedding the system call
		in any Linux kernel.
310919		Describe the core concept of Java programming Discover the need for working with the multithreading and file handling
Java		Illustrate the purpose of applet and AWT in Java programming
Programming		Indicate the use of database connectivity using Java Programming
Laboratory		Articulate the networking concepts in Java
	310919.6	Implement Java Servlet and JSP concept in Java
		Able to analyze and solve problems by applying programming knowledge
310920		Prepare requirements and Design Documents
Project Based		Develop Inter-personal and leadership qualities
Learning-I		Demonstrate system with results and interpretation
		Describe software testing methods Design and develop technical documentation
310921A		Have ability of basic communication.
		Have the knowledge of Japanese script.
l Foreign	310921A.3	Get introduced to reading , writing and listening skills
00	310921A.4	Will develop interest to pursue professional Japanese Language course.
310921A	310921A.1	Have ability of basic communication. Will develop interest to pursue professional French Language course.
Audit Course-2-	2100214.2	Course C Have the knowledge of French script.
l- Foucien	310921A.2 310921A.3	
Foreign		
Language- FRENCH	310921A.4	Will develop interest to pursue professional French Language course. Course C
	310921B.1	Recognize the physical, chemical, and biological components of the earth"s systems and show how they
2400265	3103210.1	function.
310921B Audit Course-2-	310921B.2	See how natural systems and human-designed systems work together, as well as in conflict with each other.
Audit Course-2-		Correlate the human population growth and its trend to the environmental
II- Environmental	310921B.3	degradation.
Studies	310921B.4	Identify different types of environmental pollution and control measures
	310921B.5	Correlate the exploitation and utilization of conventional and non-conventional
	3103210.3	resources.
310921C	310921C.1	Apply virtual reality concepts
Audit Course-2-		
III- Augmented	310921C.2	Understand the concepts of IO interface and visual computation
Reality	24.0024.0.5	
and Virtual	310921C.3	Develop augmented reality applications using various tools and framework.
		SYMCA Semester-III
		Explain flow process for data science problems.
		Elaborate data preprocessing and warehouse.
410901	410901.3	Utilize various classification techniques for commercially available datasets.

Data Science	410901.4	Implement association rule mining for commercially available datasets.
		Apply standard clustering methods for commercially available datasets.
	410901.6	Compare appropriate data visualization method for effective visualization of data
	410902.1	Design web-based application using client-side Technology.
410902		Develop the structure of web sites using XML components.
	410902.3	Analyze current client-side web technologies: JavaScript in detail.
Web	410902.4	Apply recent client-side web technologies: Angular JS in detail.
Technologies		
-	410902.5	Apply the server side technologies for web development
	410902.6	Create the effective web applications for business functionalities using ASP.NET
		Understand the different Cloud Computing environment
410903	410903.2	Use appropriate data storage technique on Cloud
	410903.3	Analyze virtualization technology
Cloud		
Computing		Develop and deploy applications on Cloud
companing	410903.5	Apply security in cloud applications
	410903.6	Use advance techniques in Cloud Computing
	410904A.1	Understand big data analytics concepts
	410904A.2	Solve big data problems using Hadoop
410904A		Apply different Supervised learning and Unsupervised Learning algorithms
Elective: II-Big	410904A.4	Understand different data visualization techniques.
Data Analytics	410904A.5	Understand Hadoop Architecture
		Solve Complex real world problems in various applications like recommender
		systems, social media applications, etc.
		Understand basic concepts of Machine Learning.
410904B		
Elective: II-		Understand classification concepts
	410904B.3	Apply different regression and generalization techniques.
Machine		Apply various logic Based and algebraic algorithms for real world applications.
Learning		
5	410904B.5	Use probabilistic models for machine learning
	410904B.6	Understand trends In Machine Learning
		Analyze the problem statement (SRS) and choose proper design technique for
410904C		
Elective: II-		designing web-based/ desktop application.
	410904C 2	Apply static modeling design to applications.
Object		
Oriented		Understand application of UML in different systems.
	410904C.4	Apply dynamic modeling design to applications.
Analysis and		
-	410004C E	Evaluate coftware architectures
-		Evaluate software architectures.
Design		Evaluate software architectures. Understand various software design patterns.
-	410904C.6	Understand various software design patterns.
Design	410904C.6 410904D.1	Understand various software design patterns. Understand general concepts of Internet of Things (IoT)
Design 410904D	410904C.6 410904D.1 410904D.2	Understand various software design patterns. Understand general concepts of Internet of Things (IoT) Analyze various M2M and IoT architectures
Design	410904C.6 410904D.1 410904D.2	Understand various software design patterns. Understand general concepts of Internet of Things (IoT)
Design 410904D Elective: II-	410904C.6 410904D.1 410904D.2 410904D.3	Understand various software design patterns. Understand general concepts of Internet of Things (IoT) Analyze various M2M and IoT architectures Implement an architectural design for IoT for specified requirement
Design 410904D Elective: II- Internet of	410904C.6 410904D.1 410904D.2 410904D.3 410904D.4	Understand various software design patterns. Understand general concepts of Internet of Things (IoT) Analyze various M2M and IoT architectures Implement an architectural design for IoT for specified requirement Analyze applications of IoT in real time scenario
Design 410904D Elective: II-	410904C.6 410904D.1 410904D.2 410904D.3 410904D.4 410904D.5	Understand various software design patterns. Understand general concepts of Internet of Things (IoT) Analyze various M2M and IoT architectures Implement an architectural design for IoT for specified requirement Analyze applications of IoT in real time scenario Analyze the challenges of IoT architectures.
Design 410904D Elective: II- Internet of	410904C.6 410904D.1 410904D.2 410904D.3 410904D.4 410904D.5	Understand various software design patterns. Understand general concepts of Internet of Things (IoT) Analyze various M2M and IoT architectures Implement an architectural design for IoT for specified requirement Analyze applications of IoT in real time scenario
Design 410904D Elective: II- Internet of	410904C.6 410904D.1 410904D.2 410904D.3 410904D.4 410904D.5 410904D.6	Understand various software design patterns. Understand general concepts of Internet of Things (IoT) Analyze various M2M and IoT architectures Implement an architectural design for IoT for specified requirement Analyze applications of IoT in real time scenario Analyze the challenges of IoT architectures. Recognize various devices, sensors and application
Design 410904D Elective: II- Internet of Things	410904C.6 410904D.1 410904D.2 410904D.3 410904D.4 410904D.5 410904D.6 410905.1	Understand various software design patterns. Understand general concepts of Internet of Things (IoT) Analyze various M2M and IoT architectures Implement an architectural design for IoT for specified requirement Analyze applications of IoT in real time scenario Analyze the challenges of IoT architectures. Recognize various devices, sensors and application Illustrate different approaches of quality management, assurance, and quality standard to
Design 410904D Elective: II- Internet of Things 410905	410904C.6 410904D.1 410904D.2 410904D.3 410904D.4 410904D.5 410904D.6 410905.1	Understand various software design patterns. Understand general concepts of Internet of Things (IoT) Analyze various M2M and IoT architectures Implement an architectural design for IoT for specified requirement Analyze applications of IoT in real time scenario Analyze the challenges of IoT architectures. Recognize various devices, sensors and application Illustrate different approaches of quality management, assurance, and quality standard to software system
Design 410904D Elective: II- Internet of Things	410904C.6 410904D.1 410904D.2 410904D.3 410904D.4 410904D.5 410904D.6 410905.1	Understand various software design patterns. Understand general concepts of Internet of Things (IoT) Analyze various M2M and IoT architectures Implement an architectural design for IoT for specified requirement Analyze applications of IoT in real time scenario Analyze the challenges of IoT architectures. Recognize various devices, sensors and application Illustrate different approaches of quality management, assurance, and quality standard to
Design 410904D Elective: II- Internet of Things 410905 Software	410904C.6 410904D.1 410904D.2 410904D.3 410904D.4 410904D.5 410904D.6 410905.1 410905.2	Understand various software design patterns. Understand general concepts of Internet of Things (IoT) Analyze various M2M and IoT architectures Implement an architectural design for IoT for specified requirement Analyze applications of IoT in real time scenario Analyze the challenges of IoT architectures. Recognize various devices, sensors and application Illustrate different approaches of quality management, assurance, and quality standard to software system Create test plan, test cases and defect repository using case study.
Design 410904D Elective: II- Internet of Things 410905 Software Testing and	410904C.6 410904D.1 410904D.2 410904D.3 410904D.4 410904D.5 410904D.6 410905.1 410905.2 410905.3	Understand various software design patterns. Understand general concepts of Internet of Things (IoT) Analyze various M2M and IoT architectures Implement an architectural design for IoT for specified requirement Analyze applications of IoT in real time scenario Analyze the challenges of IoT architectures. Recognize various devices, sensors and application Illustrate different approaches of quality management, assurance, and quality standard to software system Create test plan, test cases and defect repository using case study. Apply the concept of white box and block box testing techniques.
Design 410904D Elective: II- Internet of Things 410905 Software Testing and Quality	410904C.6 410904D.1 410904D.2 410904D.3 410904D.4 410904D.5 410904D.6 410905.1 410905.2 410905.2 410905.3	Understand various software design patterns. Understand general concepts of Internet of Things (IoT) Analyze various M2M and IoT architectures Implement an architectural design for IoT for specified requirement Analyze applications of IoT in real time scenario Analyze the challenges of IoT architectures. Recognize various devices, sensors and application Illustrate different approaches of quality management, assurance, and quality standard to software system Create test plan, test cases and defect repository using case study. Apply the concept of white box and block box testing techniques. Analyze various testing types
Design 410904D Elective: II- Internet of Things 410905 Software Testing and	410904C.6 410904D.1 410904D.2 410904D.3 410904D.4 410904D.5 410904D.6 410905.1 410905.2 410905.2 410905.3	Understand various software design patterns. Understand general concepts of Internet of Things (IoT) Analyze various M2M and IoT architectures Implement an architectural design for IoT for specified requirement Analyze applications of IoT in real time scenario Analyze the challenges of IoT architectures. Recognize various devices, sensors and application Illustrate different approaches of quality management, assurance, and quality standard to software system Create test plan, test cases and defect repository using case study. Apply the concept of white box and block box testing techniques.
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Design 410904D Elective: II- Internet of Things 410905 Software Testing and Quality Assurance	410904C.6 410904D.1 410904D.2 410904D.3 410904D.4 410904D.5 410904D.6 410905.1 410905.2 410905.3 410905.3 410905.5 410905.6 410906.1	Understand various software design patterns. Understand general concepts of Internet of Things (IoT) Analyze various M2M and IoT architectures Implement an architectural design for IoT for specified requirement Analyze applications of IoT in real time scenario Analyze the challenges of IoT architectures. Recognize various devices, sensors and application Illustrate different approaches of quality management, assurance, and quality standard to software system Create test plan, test cases and defect repository using case study. Apply the concept of white box and block box testing techniques. Analyze various testing types To analyze recent automation tools for software testing. Apply software testing automation concepts using Selenium Design web-based application using client-side Technology.
Design 410904D Elective: II- Internet of Things 410905 Software Testing and Quality	410904C.6 410904D.1 410904D.2 410904D.3 410904D.4 410904D.5 410904D.6 410905.1 410905.2 410905.3 410905.3 410905.5 410905.6 410906.1	Understand various software design patterns. Understand general concepts of Internet of Things (IoT) Analyze various M2M and IoT architectures Implement an architectural design for IoT for specified requirement Analyze applications of IoT in real time scenario Analyze the challenges of IoT architectures. Recognize various devices, sensors and application Illustrate different approaches of quality management, assurance, and quality standard to software system Create test plan, test cases and defect repository using case study. Apply the concept of white box and block box testing techniques. Analyze various testing types To analyze recent automation tools for software testing. Apply software testing automation concepts using Selenium
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Design 410904D Elective: II- Internet of Things 410905 Software Testing and Quality Assurance 410906 Web	410904C.6 410904D.1 410904D.2 410904D.3 410904D.4 410904D.5 410904D.6 410905.1 410905.2 410905.3 410905.4 410905.5 410905.6 410906.1 410906.2 410906.3	Understand various software design patterns. Understand general concepts of Internet of Things (IoT) Analyze various M2M and IoT architectures Implement an architectural design for IoT for specified requirement Analyze applications of IoT in real time scenario Analyze the challenges of IoT architectures. Recognize various devices, sensors and application Illustrate different approaches of quality management, assurance, and quality standard to software system Create test plan, test cases and defect repository using case study. Apply the concept of white box and block box testing techniques. Analyze various testing types To analyze recent automation tools for software testing. Apply software testing automation concepts using Selenium Design web-based application using client-side Technology. Develop the structure of web sites using XML components. Analyze current client-side web technologies: JavaScript in detail.
Design 410904D Elective: II- Internet of Things 410905 Software Testing and Quality Assurance 410906 Web Technologies	410904C.6 410904D.1 410904D.2 410904D.3 410904D.4 410904D.5 410904D.6 410905.1 410905.2 410905.3 410905.3 410905.4 410905.5 410905.6 410906.1 410906.2 410906.3 410906.4	Understand various software design patterns. Understand general concepts of Internet of Things (IoT) Analyze various M2M and IoT architectures Implement an architectural design for IoT for specified requirement Analyze applications of IoT in real time scenario Analyze the challenges of IoT architectures. Recognize various devices, sensors and application Illustrate different approaches of quality management, assurance, and quality standard to software system Create test plan, test cases and defect repository using case study. Apply the concept of white box and block box testing techniques. Analyze various testing types To analyze recent automation tools for software testing. Apply software testing automation concepts using Selenium Design web-based application using client-side Technology. Develop the structure of web sites using XML components. Analyze current client-side web technologies: JavaScript in detail. Understand recent client-side web technologies: Angular JS in detail.
Design 410904D Elective: II- Internet of Things 410905 Software Testing and Quality Assurance 410906 Web	410904C.6 410904D.1 410904D.2 410904D.3 410904D.4 410904D.5 410904D.6 410905.1 410905.2 410905.3 410905.3 410905.4 410905.5 410905.6 410906.1 410906.2 410906.3 410906.4	Understand various software design patterns. Understand general concepts of Internet of Things (IoT) Analyze various M2M and IoT architectures Implement an architectural design for IoT for specified requirement Analyze applications of IoT in real time scenario Analyze the challenges of IoT architectures. Recognize various devices, sensors and application Illustrate different approaches of quality management, assurance, and quality standard to software system Create test plan, test cases and defect repository using case study. Apply the concept of white box and block box testing techniques. Analyze various testing types To analyze recent automation tools for software testing. Apply software testing automation concepts using Selenium Design web-based application using client-side Technology. Develop the structure of web sites using XML components. Analyze current client-side web technologies: JavaScript in detail.
Design 410904D Elective: II- Internet of Things 410905 Software Testing and Quality Assurance 410906 Web Technologies	410904C.6 410904D.1 410904D.2 410904D.3 410904D.4 410904D.5 410904D.6 410905.1 410905.2 410905.3 410905.3 410905.4 410905.5 410905.6 410906.1 410906.2 410906.3 410906.4	Understand various software design patterns. Understand general concepts of Internet of Things (IoT) Analyze various M2M and IoT architectures Implement an architectural design for IoT for specified requirement Analyze applications of IoT in real time scenario Analyze the challenges of IoT architectures. Recognize various devices, sensors and application Illustrate different approaches of quality management, assurance, and quality standard to software system Create test plan, test cases and defect repository using case study. Analyze various testing types To analyze recent automation tools for software testing. Apply software testing automation concepts using Selenium Design web-based application using client-side Technology. Develop the structure of web sites using XML components. Analyze current client-side web technologies: Angular JS in detail. Understand current server-side web technologies and uses.
Design 410904D Elective: II- Internet of Things 410905 Software Testing and Quality Assurance 410906 Web Technologies	410904C.6 410904D.1 410904D.2 410904D.3 410904D.4 410904D.5 410904D.6 410905.1 410905.1 410905.2 410905.3 410905.3 410905.5 410905.6 410906.1 410906.2 410906.3 410906.4	Understand various software design patterns. Understand general concepts of Internet of Things (IoT) Analyze various M2M and IoT architectures Implement an architectural design for IoT for specified requirement Analyze applications of IoT in real time scenario Analyze the challenges of IoT architectures. Recognize various devices, sensors and application Illustrate different approaches of quality management, assurance, and quality standard to software system Create test plan, test cases and defect repository using case study. Analyze various testing types To analyze recent automation tools for software testing. Apply software testing automation concepts using Selenium Design web-based application using client-side Technology. Develop the structure of web sites using XML components. Analyze current client-side web technologies: Angular JS in detail. Understand current server-side web technologies and uses. Analyze ASP.NET in detail.
Design 410904D Elective: II- Internet of Things 410905 Software Testing and Quality Assurance 410906 Web Technologies	410904C.6 410904D.1 410904D.2 410904D.3 410904D.3 410904D.4 410904D.6 410905.1 410905.1 410905.2 410905.3 410905.4 410905.5 410905.6 410906.1 410906.2 410906.3 410906.4 410906.5 410906.6 410907.1	Understand various software design patterns. Understand general concepts of Internet of Things (IoT) Analyze various M2M and IoT architectures Implement an architectural design for IoT for specified requirement Analyze applications of IoT in real time scenario Analyze the challenges of IoT architectures. Recognize various devices, sensors and application Illustrate different approaches of quality management, assurance, and quality standard to software system Create test plan, test cases and defect repository using case study. Apply the concept of white box and block box testing techniques. Analyze recent automation tools for software testing. Apply software testing automation concepts using Selenium Design web-based application using client-side Technology. Develop the structure of web sites using XML components. Analyze current client-side web technologies: JavaScript in detail. Understand recent client-side web technologies: Angular JS in detail. Understand current server-side web technologies and uses. Analyze ASP.NET in detail. Implement white box and block box testing techniques for any software systems
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Design 410904D Elective: II- Internet of Things 410905 Software Testing and Quality Assurance 410906 Web Technologies Lab	410904C.6 410904D.1 410904D.2 410904D.3 410904D.3 410904D.4 410904D.5 410904D.6 410905.1 410905.2 410905.3 410905.4 410905.5 410905.6 410906.1 410906.2 410906.3 410906.4 410906.5 410906.6 410907.1 410907.2	Understand various software design patterns. Understand general concepts of Internet of Things (IoT) Analyze various M2M and IoT architectures Implement an architectural design for IoT for specified requirement Analyze applications of IoT in real time scenario Analyze the challenges of IoT architectures. Recognize various devices, sensors and application Illustrate different approaches of quality management, assurance, and quality standard to software system Create test plan, test cases and defect repository using case study. Apply the concept of white box and block box testing techniques. Analyze recent automation tools for software testing. Apply software testing automation concepts using Selenium Design web-based application using client-side Technology. Develop the structure of web sites using XML components. Analyze current client-side web technologies: JavaScript in detail. Understand recent client-side web technologies: Angular JS in detail. Understand recent client-side web technologies and uses. Analyze ASP.NET in detail. Implement white box and block box testing techniques for any software systems Create Test plan and test cases using case studies.
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		Employ data analysis using graphs.
		Implement Data Visualization
		Identify the real life problem from societal need point of view
410909		Choose and compare alternative approaches to select most feasible one
Project Based		Choose and compare alternative approaches to select most feasible one perspective
Learning –II		Design the reliable and scalable solution to meet challenges
	410909.5	Inculcate the habit of lifelong learning.
		Design and develop technical documentation
		Apply language to communicate confidently and clearly in the Japanese language
0		: Understand and use Japanese script to read and write
Language	410910A.3	Apply knowledge for next advance level reading, writing and listening skills
(Japanese	410910A.4	Develop interest to pursue further study, work and leisure
	410910B.1	Describe the major elements of ethical theory.
410910B	410910B.2	Analyze and present results of complex ethics cases
AC3 – II:	410910B.3	Develop basic life skills or etiquettes in order to succeed in corporate culture.
Professional	410010P 4	Acquire effective writing skills for drafting academic, business and technical documents
	4109100.4	Acquire enective writing skins for drafting academic, business and technical documents
Ethics and	410010D F	Demonstrate the understanding of professionalism in terms of workplace helps jors and relationships
Etiquettes	4109108.5	Demonstrate the understanding of professionalism in terms of workplace behaviors and relationships
	410910B.6	Develop professional attitude
	410910C.1	Install and configure Android application development tools.
410910C		Design and develop User Interfaces for the Android platform.
Audit Course	410910C.3	Understanding enterprise scale requirements of mobile applications.
	410910C.4	Demonstrate their ability to develop software with reasonable complexity on mobile platform
	4100100.4	
Арр	410910C.5	Demonstrate their ability to deploy software to mobile devices
development	410910C.6	Apply development tools, techniques, programming languages and libraries required for Mobile app
	4109100.0	development
		SYMCA Semester-IV
	410912.1	Learn team work and professionalism.
410912	410912.2	Apply SDLC to project
Major Project	410912.3	Apply communication and presentation skills
	410912.4	Recognize the importance of documentation.
	410913.1	Analyze recent topic or emerging trends
410913	410913.2	Summarize literature survey
Seminar on	410913.3	Identify, understand and discuss current real-world issues.
Major Project	410913.4	Suggest future scope for the topic
iviajor Project	410913.5	Use professional ethics
	410913.6	Develop proficiency in presentation skills and written communication
410914A Audit	410914A.1	Develop awareness about entrepreneurship
	1100111 2	Develop an entrepreneurial mind-set by learning key skills such as design, personal ing, and communication
	410914A.Z	שבייבוסף מה בחת בףו פוופערומו חווווע-גפנ שץ ופמרווווצ גפץ גאווג גענוו מג עפגוצוו, אווג בחת בטוומו וווצ, מווע נטווווערוונמנוטוו
Entrepreneursh	410914A.3	Identify business opportunities.
ip Development	410 <mark>914A.4</mark>	Develop comprehensive business plans.
Development	410914A.5	Understand the entrepreneurial finances and policies
410914B	410914B.1	Understand social media marketing
AC4-II Digital	4100140 3	Define social media marketing goal setting necessary to achieve successful online campaigns.
		Wetine social media marketing goal setting necessary to achieve successful online campaigns
and Social	4109140.2	beine social mean marketing boar setting necessary to demote successful onnite campagins.
and Social		Understand digital marketing concepts