

**COURSE CODE &NAME: MC5301- ADVANCED DATA STRUCTURES AND ALGORITHMS****REGULATION: R2017****YEAR/SEM: II/ III****COURSE OUTCOMES**

<b>C301.1</b>	<b>U</b>	<b>Summarize</b> and apply linear data structures-List, Stack and Queue.
<b>C301.2</b>	<b>U</b>	<b>Summarize</b> the graph algorithms.
<b>C301.3</b>	<b>U</b>	<b>Classify</b> different algorithms analysis techniques.
<b>C301.4</b>	<b>A</b>	<b>Apply</b> data structures and algorithms in real time applications
<b>C301.5</b>	<b>A</b>	<b>Analyze</b> the efficiency of algorithm

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
<b>C301.1</b>	3	3	3	2	3	0	0	0	0	0	0	3	3	2
<b>C301.2</b>	3	3	3	2	3	0	0	0	0	0	0	3	3	3
<b>C301.3</b>	3	3	3	2	3	0	0	0	0	0	0	3	3	3
<b>C301.4</b>	3	3	3	2	3	0	0	0	0	0	0	3	3	3
<b>C301.5</b>	3	3	3	2	0	0	0	0	0	0	0	3	3	3
<b>C301</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>3</b>

**COURSE CODE &NAME: MC5302 - COMPUTER NETWORK****REGULATION: R2017****YEAR/SEM: II / III****COURSE OUTCOMES**

<b>C302.1</b>	<b>E</b>	<b>Explain</b> the basic layers and its functions in computer networks
<b>C302.2</b>	<b>E</b>	<b>Evaluate</b> the performance of a network in data link layer and media access
<b>C302.3</b>	<b>AL</b>	<b>Analyze</b> the various components required to build different networks.
<b>C302.4</b>	<b>C</b>	<b>Design</b> protocols for various functions in the network for transport layer.
<b>C302.5</b>	<b>AL</b>	<b>Analyze</b> the working of various application layer protocols.

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
<b>C302.1</b>	3	2	3	-	-	-	-	-	-	-	-	3	3	3
<b>C302.2</b>	3	3	2	-	-	-	-	-	-	-	-	2	2	3
<b>C302.3</b>	3	3	3	-	-	-	-	-	-	-	-	2	2	3
<b>C302.4</b>	3	3	2	2	-	-	-	-	-	-	-	3	3	3
<b>C302.5</b>	3	3	3	2	-	-	-	-	-	-	-	3	3	3
<b>C302</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>3</b>	<b>3</b>

**COURSE CODE &NAME: MC5303 - WEB PROGRAMMING ESSENTIALS****REGULATION: R2017****YEAR/SEM: II / III****COURSE OUTCOMES**

<b>C303.1</b>	<b>C</b>	<b>Create</b> a basic website using HTML and Cascading Style Sheets.
<b>C303.2</b>	<b>C</b>	<b>Design</b> and implement dynamic web pages using Java Script mechanisms.
<b>C303.3</b>	<b>U</b>	<b>Analyze</b> client presentation using AJAX.
<b>C303.4</b>	<b>AP</b>	<b>Apply</b> and implement simple web page in PHP , and present data in XML format.
<b>C303.5</b>	<b>C</b>	<b>Design</b> front end web page and connect to the back end databases.

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
<b>C303.1</b>	3	2	3	-	-	-	-	-	-	-	-	3	3	3
<b>C303.2</b>	3	3	2	-	-	-	-	-	-	-	-	2	2	3
<b>C303.3</b>	3	3	3	-	-	-	-	-	-	-	-	2	2	3
<b>C303.4</b>	3	3	2	2	-	-	-	-	-	-	-	3	3	3
<b>C303.5</b>	3	3	3	2	-	-	-	-	-	-	-	3	3	3
<b>C303</b>	<b>3</b>	<b>2.8</b>	<b>2.6</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2.6</b>	<b>2.6</b>	<b>3</b>

**COURSE CODE &NAME: MC5304 - PROGRAMMING WITH JAVA****REGULATION: R2017****YEAR/SEM: II / III****COURSE OUTCOMES**

<b>C304.1</b>	<b>E</b>	<b>Understand</b> the Basic concept of Java.
<b>C304.2</b>	<b>AP</b>	<b>Make use of</b> hierarchy of Java classes to provide a solution to a given set of requirements found in the Java API
<b>C304.3</b>	<b>AP</b>	<b>Make use of</b> the frameworks JSP, Hibernate, Spring.
<b>C304.4</b>	<b>AP</b>	<b>Apply</b> the java concepts in Internals And Networking in sockets.
<b>C304.5</b>	<b>AP</b>	<b>Make use of</b> Design and implement server side programs using Servlet and JSP.

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
<b>C304.1</b>	2	2	1	1	1	1	-	-	-	-	-	2	1	1
<b>C304.2</b>	2	3	3	2	2	2	-	-	-	-	1	2	1	1
<b>C304.3</b>	2	2	3	1	3	3	-	-	-	-	2	2	1	1
<b>C304.4</b>	2	2	2	2	3	3	-	-	-	-	2	3	2	2
<b>C304.5</b>	2	2	2	2	3	1	-	-	-	-	-	3	1	1
<b>C304</b>	<b>2.0</b>	<b>2.2</b>	<b>2.4</b>	<b>1.6</b>	<b>2.4</b>	<b>1.8</b>	-	-	-	-	<b>1.0</b>	<b>2.2</b>	<b>1.2</b>	<b>1.2</b>

**COURSE CODE &NAME: MC5305 - OBJECT ORIENTED ANALYSIS AND DESIGN****REGULATION: R2017****YEAR/SEM: II/ III****COURSE OUTCOMES**

<b>C305.1</b>	<b>AP</b>	<b>Apply</b> the basic UML diagram using OO concepts
<b>C305.2</b>	<b>AP</b>	<b>Make Use of</b> UML analysis and design diagrams
<b>C305.3</b>	<b>AL</b>	<b>Analyze</b> the domain models and conceptual classes
<b>C305.4</b>	<b>AP</b>	<b>Build</b> the code form design system and apply design patents
<b>C305.5</b>	<b>E</b>	<b>Compare</b> and contrast various testing techniques.

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
<b>C305.1</b>	3	3	3	2	-	2	-	-	-	-	-	2	3	3
<b>C305.2</b>	3	3	3	2	-	3	-	-	-	-	-	3	3	3
<b>C305.3</b>	3	3	3	3	-	3	-	-	-	-	-	3	3	2
<b>C305.4</b>	3	3	2	2	-	3	-	-	-	-	-	2	3	3
<b>C305.5</b>	3	3	3	2	-	3	-	-	-	-	-	3	3	3
<b>C305</b>	<b>3</b>	<b>3</b>	<b>2.8</b>	<b>2.2</b>	<b>-</b>	<b>2.8</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2.6</b>	<b>3</b>	<b>2.8</b>

**COURSE CODE &NAME: MC5311 – DATA STRUCTURES AND ALGORITHMS LABORATORY****REGULATION: R2017****YEAR/SEM: II/ III****COURSE OUTCOMES**

<b>C316.1</b>	<b>AP</b>	<b>Develop</b> the data structures programs in linear and non-linear array like stack , queue and list ADTs
<b>C316.2</b>	<b>AP</b>	<b>Develop</b> program in data structures using linked list and its applications
<b>C316.3</b>	<b>C</b>	<b>Create</b> the data structure programs in binary search trees and AVL trees
<b>C316.4</b>	<b>C</b>	<b>Design</b> and implement the heaps using priority and graph traversal algorithms
<b>C316.5</b>	<b>C</b>	<b>Design</b> and implement the searching and sorting algorithm with hashing techniques

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
<b>C316.1</b>	3	3	3	0	0	0	0	2	3	3	0	2	3	3
<b>C316.2</b>	3	3	3	0	0	0	0	3	3	3	0	3	3	3
<b>C316.3</b>	3	3	3	0	0	0	0	2	3	3	0	3	3	3
<b>C316.4</b>	3	3	3	0	3	0	0	3	2	3	0	3	3	3
<b>C316.5</b>	3	3	3	0	3	0	0	2	2	3	0	3	3	3
<b>C316</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>3</b>

**COURSE CODE &NAME: MC5312 - WEB PROGRAMMING LABORATORY****REGULATION: R2017****YEAR/SEM: II / III****COURSE OUTCOMES**

<b>C327.1</b>	<b>AP</b>	<b>Develop</b> simple web applications using scripting languages.
<b>C327.2</b>	<b>AP</b>	<b>Implement</b> server side and client side programming develop web applications with various web technology concepts.
<b>C327.3</b>	<b>C</b>	<b>Design</b> a Web application using various technologies such as AJAX, JQuery and JSON.
<b>C327.4</b>	<b>AP</b>	<b>Develop</b> an application for social media using HTML5, CSS3, JQuery, AJAX & PHP
<b>C327.5</b>	<b>U</b>	<b>Summarize</b> server side and client side programming develop web applications using various web.

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
<b>C327.1</b>	3	3	3	0	0	0	0	0	0	3	3	3	3	3
<b>C327.2</b>	3	3	3	2	0	0	0	0	0	3	3	3	2	2
<b>C327.3</b>	3	3	3	3	0	0	0	0	0	3	2	3	3	2
<b>C327.4</b>	3	3	3	3	0	0	0	0	0	3	2	3	2	3
<b>C327.5</b>	3	3	3	0	0	0	0	0	0	3	3	3	3	3
<b>C327</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>

**COURSE CODE &NAME: MC5313 – PROGRAMMING WITH JAVA LABORATORY****REGULATION: R2017****YEAR/SEM: II / III****COURSE OUTCOMES**

<b>C338.1</b>	<b>AP</b>	<b>Apply</b> the Object Oriented features of Java for programming on the internet
<b>C338.2</b>	<b>AP</b>	<b>Implement</b> , compile, test and run Java program,
<b>C338.3</b>	<b>C</b>	<b>Make</b> use of hierarchy of Java classes to provide a solution to a given set of requirements found in the Java API
<b>C338.4</b>	<b>E</b>	<b>Understand</b> the components and patterns that constitute a suitable architecture for a web application using java servlets
<b>C338.5</b>	<b>E</b>	<b>Demonstrate</b> systematic knowledge of backend and front end by developing an appropriate application.

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
<b>C338.1</b>	2	2	1	1	2	0	0	0	0	0	0	2	2	2
<b>C338.2</b>	2	2	2	2	2	0	0	0	0	0	0	1	1	1
<b>C338.3</b>	2	2	2	1	1	0	0	0	0	0	0	2	1	1
<b>C338.4</b>	2	2	2	1	2	0	0	0	0	0	0	2	2	1
<b>C338.5</b>	2	2	2	1	1	0	0	0	0	0	0	1	1	1
<b>C338</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1.4</b>	<b>1.8</b>	<b>1.4</b>



**COURSE CODE &NAME: MC5401 - RESOURCE MANAGEMENT TECHNIQUES****REGULATION: R2017****YEAR/SEM: II / IV****COURSE OUTCOMES**

<b>C401.1</b>	<b>AP</b>	<b>Make use of</b> simplex method to solve optimization problems.
<b>C401.2</b>	<b>AP</b>	<b>Apply</b> the concept of duality to solve Shortest route problem
<b>C401.3</b>	<b>E</b>	<b>Explain</b> integer programming method.
<b>C401.4</b>	<b>C</b>	<b>Build</b> the types of constraints and optimization methods.
<b>C401.5</b>	<b>AP</b>	<b>Utilize</b> PERT and CPM in project management.

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
<b>C401.1</b>	3	3	3	2	3	0	0	0	0	2	3	2	3	3
<b>C401.2</b>	3	3	3	2	3	0	0	0	0	2	3	2	3	3
<b>C401.3</b>	3	3	3	2	3	0	0	0	0	2	3	3	3	3
<b>C401.4</b>	3	3	3	0	2	0	0	0	0	3	3	3	3	2
<b>C401.5</b>	3	3	3	0	2	0	0	0	0	3	3	3	3	2
<b>C401</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2.6</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2.7</b>	<b>3</b>	<b>2.8</b>	<b>3</b>	<b>2.8</b>

**COURSE CODE &NAME: MC5402 – MOBILE COMPUTING****REGULATION: R2017****YEAR/SEM: II / IV****COURSE OUTCOMES**

<b>C402.1</b>	<b>AL</b>	<b>Classify</b> the knowledge about various types of Wireless Data Networks and Voice Networks.
<b>C402.2</b>	<b>U</b>	<b>Understand</b> the architectures, the challenges and the Solutions of Wireless Communication
<b>C402.3</b>	<b>U</b>	<b>Realize</b> the role of Wireless Protocols in shaping the future Internet.
<b>C402.4</b>	<b>C</b>	<b>Develop</b> simple Mobile Application Using Android
<b>C402.5</b>	<b>U</b>	<b>Summarize</b> basic components needed for Mobile App development

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
<b>C402.1</b>	2	1	1	1	2	2	0	0	0	0	0	1	2	1
<b>C402.2</b>	2	2	1	1	2	2	0	0	0	0	0	1	1	1
<b>C402.3</b>	2	2	1	1	2	2	0	0	0	0	0	1	1	1
<b>C402.4</b>	2	2	2	1	2	2	0	0	1	0	0	1	1	1
<b>C402.5</b>	2	2	2	2	3	2	2	0	2	2	2	2	1	1
<b>C402</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>1.5</b>	<b>2</b>	<b>2</b>	<b>1.8</b>	<b>1.7</b>	<b>1</b>

**COURSE CODE &NAME: MC5403 – ADVANCED DATABASES AND DATA MINING****REGULATION: R2017****YEAR/SEM: II / IV****COURSE OUTCOMES**

<b>C403.1</b>	<b>C</b>	<b>Create</b> relational data models.
<b>C403.2</b>	<b>AP</b>	<b>Apply</b> the association rules for mining the data.
<b>C403.3</b>	<b>C</b>	<b>Design</b> and deploy appropriate classification techniques.
<b>C403.4</b>	<b>AL</b>	<b>Survey</b> Multidimensional Intelligent model from typical system.
<b>C403.5</b>	<b>E</b>	<b>Evaluate</b> various mining techniques on complex data objects.

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
<b>C403.1</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>C403.2</b>	3	3	3	2	3	0	0	0	0	0	0	2	3	2
<b>C403.3</b>	3	3	3	2	3	0	0	0	0	0	3	0	3	3
<b>C403.4</b>	3	3	3	2	3	2	0	0	0	0	0	3	3	3
<b>C403.5</b>	3	3	3	2	3	0	0	0	2	0	3	3	3	3
<b>C403</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>

**COURSE CODE &NAME: MC5405 – WEB APPLICATION DEVELOPMENT****REGULATION: R2017****YEAR/SEM: II / IV****COURSE OUTCOMES**

<b>C404.1</b>	<b>C</b>	<b>Design</b> and implement Internet systems for enhancing education and engineering design
<b>C404.2</b>	<b>U</b>	<b>Understand</b> functionality of Internet system
<b>C404.3</b>	<b>C</b>	<b>Design</b> a system according to customer needs using the available Internet technologies
<b>C404.4</b>	<b>C</b>	<b>Design</b> and develop interactive, client-side, server-side executable web applications.
<b>C404.5</b>	<b>C</b>	<b>Develop</b> a rapid application in many areas on most platforms.

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
<b>C404.1</b>	3	3	3	2	3	0	0	0	0	3	2	3	3	3
<b>C404.2</b>	3	3	3	2	3	0	0	0	0	3	2	3	3	2
<b>C404.3</b>	3	3	3	0	3	0	0	0	0	3	3	2	3	2
<b>C404.4</b>	3	3	3	0	3	0	0	0	0	2	3	2	2	3
<b>C404.5</b>	3	3	3	3	3	0	0	0	0	2	3	2	3	3
<b>C404</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2.8</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>2.8</b>	<b>2.6</b>	<b>3</b>

**COURSE CODE &NAME: MC5003 - SOFTWARE PROJECT MANAGEMENT****REGULATION: R2017****YEAR/SEM: II / IV****COURSE OUTCOMES**

<b>C411.1</b>	<b>AL</b>	<b>Analyze</b> the need for Software Project Management and control
<b>C411.2</b>	<b>AL</b>	<b>Classify</b> the various activities of project scheduling and evaluation
<b>C411.3</b>	<b>AL</b>	<b>Contrast</b> the risk assessment and management process
<b>C411.4</b>	<b>AP</b>	<b>Build</b> the different models of software process and network planning
<b>C411.5</b>	<b>AL</b>	<b>Utilize</b> the characteristic of organizational behaviors and management

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
<b>C411.1</b>	3	3	3	2	3	0	0	0	3	3	2	3	2	3
<b>C411.2</b>	3	3	3	2	3	0	0	0	3	3	2	2	2	3
<b>C411.3</b>	3	3	3	2	3	0	0	0	2	3	2	2	3	2
<b>C411.4</b>	3	3	3	0	2	0	0	0	2	2	2	2	3	2
<b>C411.5</b>	3	3	3	0	3	0	0	0	2	3	2	3	3	2
<b>C411</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2.3</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>2.8</b>

**COURSE CODE &NAME: MC5411 – MOBILE APPLICATION DEVELOPMENT LABORATORY****REGULATION: R2017****YEAR/SEM: II / IV****COURSE OUTCOMES**

<b>C416.1</b>	<b>AL</b>	<b>Assume</b> configure Android application development tools.
<b>C416.2</b>	<b>C</b>	<b>Design</b> user Interfaces for the Android platform.
<b>C416.3</b>	<b>AP</b>	<b>Apply</b> Java programming concepts to Android application development.
<b>C416.4</b>	<b>C</b>	<b>Construct</b> business trends impacting mobile applications.
<b>C416.5</b>	<b>AL</b>	<b>Classify</b> the characterization and architecture of mobile applications

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
<b>C416.1</b>	2	1	2	1	2	1	1	0	0	0	0	1	1	1
<b>C416.2</b>	2	1	2	1	2	1	1	0	0	0	0	1	1	1
<b>C416.3</b>	2	1	2	1	2	1	1	0	0	0	0	1	1	1
<b>C416.4</b>	2	2	2	2	2	2	1	0	0	0	1	1	1	2
<b>C416.5</b>	2	2	2	2	2	2	2	0	0	0	1	1	1	2
<b>C416</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1.8</b>	<b>2</b>	<b>1.9</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1.4</b>	<b>1</b>	<b>1</b>	<b>2</b>

**COURSE CODE &NAME: MC5412– WEB APPLICATION DEVELOPMENT LABORATORY****REGULATION: R2017****YEAR/SEM: II / IV****COURSE OUTCOMES**

<b>C427.1</b>	<b>C</b>	<b>Design</b> and develop interactive, client-side, server-side executable web applications.
<b>C427.2</b>	<b>C</b>	<b>Develop</b> a simple online application using Spring MVC
<b>C427.3</b>	<b>C</b>	<b>Create</b> applications using web services such as JSON, WSDL and SOAP
<b>C427.4</b>	<b>C</b>	<b>Develop</b> a simple database application using Spring JDBC/Struts with CRUD functionality
<b>C427.5</b>	<b>C</b>	<b>Develop</b> a web service using JSON and XML formats

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
<b>C427.1</b>	3	3	3	2	3	0	0	0	0	0	3	3	3	3
<b>C427.2</b>	3	3	3	2	3	0	0	0	0	0	3	3	2	3
<b>C427.3</b>	3	3	3	2	3	0	0	0	0	0	3	3	2	3
<b>C427.4</b>	3	3	3	2	2	0	0	0	0	0	2	3	3	2
<b>C427.5</b>	3	2	3	2	2	0	0	0	0	0	2	3	3	3
<b>C427</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>

**COURSE CODE &NAME: MC5413 – TECHINAL SEMINAR AND REPORT WRITING****REGULATION: R2017****YEAR/SEM: II / IV****COURSE OUTCOMES**

<b>C438.1</b>	<b>AP</b>	<b>Develop</b> writing skills in different type of essays and project proposals.
<b>C438.2</b>	<b>E</b>	<b>Explain</b> their writing skills with specific reference to technical writing
<b>C438.3</b>	<b>AP</b>	<b>Develop</b> students critical thinking skills
<b>C438.4</b>	<b>AP</b>	<b>Develop</b> the more opportunities to produce their project and proposal writing skills
<b>C438.5</b>	<b>AP</b>	<b>Organize</b> Read and evaluate texts critically in various professional context

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
<b>C438.1</b>	-	-	-	-	-	-	-	-	2	3	0	2	2	2
<b>C438.2</b>	-	-	-	-	-	-	-	-	2	3	0	2	2	2
<b>C438.3</b>	-	-	-	-	-	-	-	-	2	3	0	2	3	2
<b>C438.4</b>	-	-	-	-	-	-	-	-	2	3	0	2	3	3
<b>C438.5</b>	-	-	-	-	-	-	-	-	2	3	0	2	3	3
<b>C438</b>	-	-	-	-	-	-	-	-	<b>2</b>	<b>3</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>2</b>



**COURSE CODE &NAME: MC5501 - CLOUD COMPUTING****REGULATION: R2017****YEAR/SEM: III / V****COURSE OUTCOMES**

<b>C501.1</b>	<b>E</b>	<b>Compare</b> the Distributed Computing and Cloud Architectures.
<b>C501.2</b>	<b>AP</b>	<b>Apply</b> Cloud computing techniques to solve large scale scientific problems
<b>C501.3</b>	<b>AP</b>	<b>Apply</b> the concepts of virtualization
<b>C501.4</b>	<b>AP</b>	<b>Make use of</b> cloud tool kits
<b>C501.5</b>	<b>AP</b>	<b>Apply</b> the security models in the cloud environment

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
<b>C501.1</b>	3	3	3	2	3	3	0	0	0	0	3	3	2	3
<b>C501.2</b>	3	3	3	2	3	2	0	0	0	0	2	3	2	3
<b>C501.3</b>	3	3	3	2	3	2	0	0	0	0	2	3	3	2
<b>C501.4</b>	3	3	3	2	2	3	0	0	0	0	2	3	3	2
<b>C501.5</b>	3	3	3	2	2	3	0	0	0	0	3	3	3	2
<b>C501</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>2.8</b>	<b>3</b>

**COURSE CODE &NAME: MC5502 - BIG DATA ANALYTICS**

**REGULATION: R2017**

**YEAR/SEM: III / V**

**COURSE OUTCOMES**

<b>C502.1</b>	<b>U</b>	<b>Understand</b> the fundamentals of various big data analysis techniques
<b>C502.2</b>	<b>AL</b>	<b>Analyze</b> the big data analytic techniques for useful business applications.
<b>C502.3</b>	<b>C</b>	<b>Design</b> efficient algorithms for mining the data from large volumes.
<b>C502.4</b>	<b>AL</b>	<b>Analyze</b> the HADOOP and Map Reduce technologies associated with big data analytics
<b>C502.5</b>	<b>U</b>	<b>Understand</b> the applications using Map Reduce Concepts

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
<b>C502.1</b>	3	3	3	2	3	0	0	0	0	0	3	3	2	3
<b>C502.2</b>	3	3	3	2	3	0	0	0	0	0	2	3	2	3
<b>C502.3</b>	3	3	3	0	3	0	0	0	0	0	2	3	3	2
<b>C502.4</b>	3	3	3	0	2	0	0	0	0	0	2	3	3	2
<b>C502.5</b>	3	3	3	0	2	0	0	0	0	0	3	3	3	2
<b>C502</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>

**COURSE CODE &NAME: MC5503 – SOFTWARE TESTING AND QUALITY ASSURANCE****REGULATION: R2017****YEAR/SEM: III / V****COURSE OUTCOMES**

<b>C503.1</b>	<b>AP</b>	<b>Applying</b> various testing techniques.
<b>C503.2</b>	<b>AP</b>	<b>Organize</b> the entire computer based systems at all levels.
<b>C503.3</b>	<b>AP</b>	<b>Apply</b> applications in the specialized environment using various automation tools.
<b>C503.4</b>	<b>E</b>	<b>Evaluate</b> the web applications using bug tracking tools.
<b>C503.5</b>	<b>AP</b>	<b>Apply</b> quality and reliability metrics to ensure the performance of the software

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
<b>C503.1</b>	3	3	3	2	2	0	0	0	0	0	3	3	2	3
<b>C503.2</b>	3	3	3	2	2	0	0	0	0	0	2	3	2	3
<b>C503.3</b>	3	3	3	0	2	0	0	0	0	0	2	3	3	2
<b>C503.4</b>	3	3	3	0	2	0	0	0	0	0	2	3	3	2
<b>C503.5</b>	3	3	3	0	2	0	0	0	0	0	3	3	3	2
<b>C503</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>

**COURSE CODE &NAME: MC5009 – HUMAN RESOURCE MANAGEMENT**

**REGULATION: R2017**

**YEAR/SEM: III / V**

**COURSE OUTCOMES**

<b>C524.1</b>	<b>AL</b>	<b>Classify</b> the primary external influences affecting HRM.
<b>C524.2</b>	<b>U</b>	<b>Outline</b> the components and the goals of staffing, training and development.
<b>C524.3</b>	<b>U</b>	<b>Understand</b> the selection procedure in various organizations.
<b>C524.4</b>	<b>U</b>	<b>Understand</b> the practices used to retain the employees and able to evaluate their performance.
<b>C524.5</b>	<b>U</b>	<b>Outline</b> the stress and the cause of burn out

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
<b>C524.1</b>	3	3	3	2	2	0	0	0	0	0	3	2	2	3
<b>C524.2</b>	3	3	3	2	3	0	0	0	0	0	2	2	2	3
<b>C524.3</b>	3	3	3	0	3	0	0	0	0	0	2	2	3	2
<b>C524.4</b>	3	3	3	0	3	0	0	0	0	0	2	3	3	2
<b>C524.5</b>	3	3	3	0	2	0	0	0	0	0	3	3	3	2
<b>C524</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2.8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>

**COURSE CODE &NAME: MC5012 – SERVICE ORIENTED ARCHITECTURE****REGULATION: R2017****YEAR/SEM: III / V****COURSE OUTCOMES**

<b>C535.1</b>	<b>U</b>	<b>Summarize</b> the structure of XML and to design and store data in XML
<b>C535.2</b>	<b>AP</b>	<b>Apply</b> SOAP, HTTP and UDDI services in the web applications.
<b>C535.3</b>	<b>AP</b>	<b>Apply</b> SOA architecture and the underlying design principles for the web projects
<b>C535.4</b>	<b>U</b>	<b>Understand</b> the role of SOA in J2EE and .NET.
<b>C535.5</b>	<b>AL</b>	<b>Classify</b> the types of clouds and its architecture

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
<b>C535.1</b>	3	3	3	2	0	0	0	0	0	0	0	3	3	2
<b>C535.2</b>	3	3	3	0	0	0	0	0	0	0	0	3	3	3
<b>C535.3</b>	3	3	3	0	0	0	0	0	0	0	0	3	3	3
<b>C535.4</b>	3	3	3	0	0	0	0	0	0	0	0	3	3	3
<b>C535.5</b>	3	3	0	0	0	0	0	0	0	0	0	3	3	3
<b>C535</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>3</b>

**COURSE CODE &NAME: MC5511 - CLOUD AND BIG DATA LABORATORY**

**REGULATION: R2017**

**YEAR/SEM: III / V**

**COURSE OUTCOMES**

<b>C516.1</b>	<b>AP</b>	<b>Select</b> the Cloud Toolkit.
<b>C516.2</b>	<b>C</b>	<b>Design</b> and Implement applications on Cloud.
<b>C516.3</b>	<b>E</b>	<b>Select</b> the Virutalization Toolkit
<b>C516.4</b>	<b>C</b>	<b>Design and implement</b> cloud applications on Cloud.
<b>C516.5</b>	<b>C</b>	<b>Construct</b> the applications according to the services.

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
<b>C516.1</b>	3	3	3	0	0	0	0	0	0	0	0	3	3	2
<b>C516.2</b>	3	3	3	0	0	0	0	0	0	0	0	3	3	3
<b>C516.3</b>	3	3	3	0	0	0	0	0	0	0	0	3	3	3
<b>C516.4</b>	3	3	3	0	0	0	0	0	0	0	0	3	3	3
<b>C516.5</b>	3	3	0	0	0	0	0	0	0	0	0	3	3	3
<b>C516</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>3</b>

**COURSE CODE &NAME: MC5512 – SOFTWARE TESTING LABORATORY****REGULATION: R2017****YEAR/SEM: III / V****COURSE OUTCOMES**

<b>C527.1</b>	<b>C</b>	<b>Construct</b> the software by applying various testing techniques.
<b>C527.1</b>	<b>C</b>	<b>Construct</b> the project and to test the entire computer based systems at all levels.
<b>C527.1</b>	<b>AP</b>	<b>Build</b> the applications in the specialized environment using various automation tools.
<b>C527.1</b>	<b>E</b>	<b>Evaluate</b> the web applications using bug tracking tools.
<b>C527.1</b>	<b>AP</b>	<b>Apply</b> quality and reliability metrics to ensure the performance of the software

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
<b>C527.1</b>	3	3	3	0	0	0	0	0	0	0	0	3	3	2
<b>C527.1</b>	3	3	3	0	0	0	0	0	0	0	0	3	2	3
<b>C527.1</b>	3	2	2	0	0	0	0	0	0	0	0	2	2	2
<b>C527.1</b>	3	2	2	0	0	0	0	0	0	0	0	2	3	2
<b>C527.1</b>	3	3	0	0	0	0	0	0	0	0	0	2	3	2
<b>C527</b>	<b>3</b>	<b>3</b>	<b>2.6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>2</b>

**COURSE CODE &NAME: C5513 – MINI PROJECT**

**REGULATION: R2017**

**YEAR/SEM: III / V**

**COURSE OUTCOMES**

<b>C538.1</b>	<b>C</b>	<b>Estimate</b> the problem by applying acquired knowledge.
<b>C538.2</b>	<b>C</b>	<b>Develop</b> the executable project modules after considering risks
<b>C538.3</b>	<b>C</b>	<b>Choose</b> efficient tools for designing project modules.
<b>C538.4</b>	<b>C</b>	<b>Combine</b> all the modules through effective team work after efficient testing.
<b>C538.5</b>	<b>C</b>	<b>Elaborate</b> the completed task and compile the project report.

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
<b>C538.1</b>	3	3	3	0	0	0	0	0	0	0	0	3	3	2
<b>C538.2</b>	3	3	3	0	0	0	0	0	0	0	0	3	2	3
<b>C538.3</b>	3	2	2	0	0	0	0	0	0	0	0	2	2	2
<b>C538.4</b>	3	2	2	0	0	0	0	0	0	0	0	2	3	2
<b>C538.5</b>	3	3	0	0	0	0	0	0	0	0	0	2	3	2
<b>C538</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>2.5</b>	<b>2.8</b>



**COURSE CODE &NAME: C5513 – MINI PROJECT**


**REGULATION: R2017**

**YEAR/SEM: III / V**

**COURSE OUTCOMES**

C538.1	C	Estimate the problem by applying acquired knowledge.
C538.2	C	Develop the executable project modules after considering risks
C538.3	C	Choose efficient tools for designing project modules.
C538.4	C	Combine all the modules through effective team work after efficient testing.
C538.5	C	Elaborate the completed task and compile the project report.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C538.1	3	3	3	0	0	0	0	0	0	0	0	3	3	2
C538.2	3	3	3	0	0	0	0	0	0	0	0	3	2	3
C538.3	3	2	2	0	0	0	0	0	0	0	0	2	2	2
C538.4	3	2	2	0	0	0	0	0	0	0	0	2	3	2
C538.5	3	3	0	0	0	0	0	0	0	0	0	2	3	2
C538	3	3	3	0	0	0	0	0	0	0	0	3	2.5	2.8

  
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