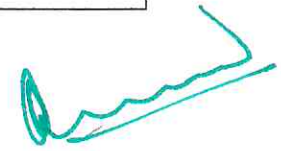


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Department of Computer Science – Data Science
Local / National / Regional / Global

SEMESTER – 1

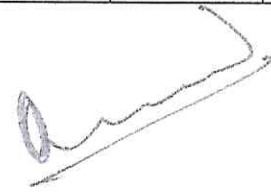
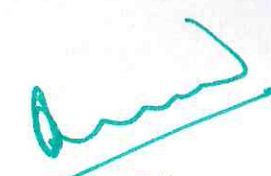
COURSE CODE	COURSE NAME	NEED				REMARKS
		Local	National	Regional	Global	
20UDSM101	Core I: Programming in C	✓	✓	✓	✓	To acquire the basic knowledge in c programming.
20UDSM102	Core II: Introduction to Data Science	✓	✓			To acquire the knowledge of data science and big data
20UMADSA101	Allied I: Discrete Mathematics		✓			To learn basic concepts of graph theory.
20UDSMP101	Core Practical I: Programming in C	✓	✓	✓	✓	The students will be able to enhance their analyzing and problem solving skills and use the same for writing programs in C
20UDSMP102	Core Practical II: Data Analytics in Excel	✓	✓	✓	✓	To explore the knowledge in data analysis.

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SEMESTER – II

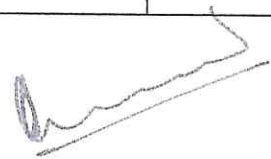
COURSE CODE	COURSE NAME	NEED				REMARKS
		Local	National	Regional	Global	
20UDSM201	Core III: Object Oriented Programming with C++	✓	✓		✓	To know the Object Oriented Features in C++
20UDSM202	Core IV: Data Structures	✓	✓		✓	To develop applications using algorithms
20UMADSA201	Allied II: Statistics I	✓	✓	✓	✓	To learn the strategies of research field and also to provide knowledge to understand the role of statistics in research
20UDSMP201	Core Practical III: Programming in C++	✓	✓	✓	✓	Students will learn the various OOPs concepts

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SEMESTER- III

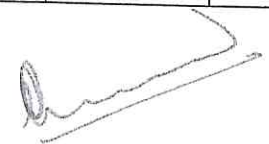
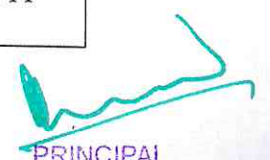
COURSE CODE	COURSE NAME	NEED				REMARKS
		Local	National	Regional	Global	
20UDSM301	Core V: Programming in Java	✓	✓	✓	✓	To Understand the fundamentals of object oriented programming.
20UDSM302	Core VI: Big Data Analytics		✓		✓	To apply Hadoop ecosystem components
20UMADSA301	Allied III: Statistics II	✓	✓	✓	✓	To understand the role of statistics in research
20UDSMP301	Core Practical IV: Programming in Java	✓	✓	✓	✓	To Explore the programming skills using Java
20UDSSBP301	SBC Practical I: Web Designing using HTML, CSS (Internal Evaluation)	✓	✓	✓	✓	To Demonstrate the competency in the use of HTML tags and its attributes
20UDSAC301	Add-On Course I : SCILAB	✓	✓	✓	✓	To understand the concept of scientific applications




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SEMESTER - IV

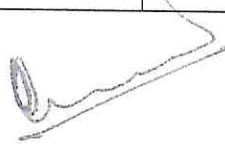
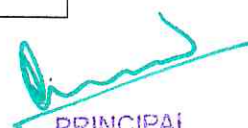
COURSE CODE	COURSE NAME	NEED				REMARKS
		Local	National	Regional	Global	
20UDSM401	Core VII: Programming in .NET(VB.NET & ASP.NET)	✓	✓	✓	✓	Student will be able to use the features of Dot Net Framework
20UDSM402	Core VIII: Relational Database Management Systems	✓	✓		✓	To Demonstrate the basic elements of a Relational Database Management System
20UMADSA401	Allied IV: Operations Research				✓	To formulate and solve problems as networks and graphs
20UDSMP401	Core Practical V: Programming in .NET	✓	✓	✓	✓	To gain programming knowledge in .Net
20UDSSBP401	SBC Practical II: JavaScript(Internal Evaluation)	✓	✓	✓	✓	To Understand the concept of JavaScript programming in Designing a Webpage
20UDSAC401	Add-On Course I :SPSS	✓			✓	Give a good grip on concepts in analyzing the data using SPSS Software.
20UDSAL401	Information Security	✓	✓	✓	✓	To analyze and resolve security issues in networks and computer systems to secure an IT infrastructure

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SEMESTER - V

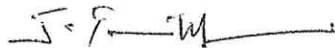
COURSE CODE	COURSE NAME	NEED				REMARKS
		Local	National	Regional	Global	
20UDSM501	Core IX: Data Mining and Warehousing	✓				The student will get knowledge of Data preprocessing and data quality
20UDSM502	Core X: Software Engineering	✓			✓	Ability to perform independent Research and analysis
20UDSM503	Core XI: Operating Systems	✓			✓	To Understand and analyze theory and implementation of process resource control
20UDESEL501	Elective : I Social Media Mining	✓	✓	✓	✓	To learn the main concepts, methods and algorithms of social network analysis
20UDESEL501	Elective : II Natural Language Processing		✓	✓	✓	Students will gain an in-depth understanding of the computational properties of natural languages
20UDSMP501	Core Practical VI: R-Programming		✓	✓		To Explore and understand how to use the R documentation
20UDSMP502	Core Practical VII: Computer Hardware	✓	✓	✓	✓	To identify the Software running on a computers
20UDSSBP501	SBC Practical III: MySQL(Internal Evaluation)	✓	✓	✓	✓	To learn SQL syntax used with MySQL
20UDSAL501	Cyber Security	✓	✓	✓	✓	Analyze and resolve security issues in networks and computer systems to secure an IT infrastructure

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SEMESTER – VI

COURSE CODE	COURSE NAME	NEED				REMARKS
		Local	National	Regional	Global	
20UDSM601	Core XII: Python Programming	✓	✓			To acquire knowledge and programming skills
20UDSM602	Core XIII: Computer Networks [Fifth Unit as Self- study]	✓	✓		✓	To develop an understanding of computer networking basics
20UDSEL601	Elective II Artificial Intelligence and Expert Systems	✓	✓	✓	✓	To develop knowledge of decision making and learning methods
20UDSEL602	Elective II Information Retrieval Techniques	✓	✓	✓	✓	To gain an understanding of the basic concepts and techniques in information retrieval
20UDSMP601	Core Practical VIII: Python Programming	✓	✓		✓	To know the concept of function in python
20UDSMP602	Core Practical IX: Computer Networking	✓	✓	✓	✓	Students to learn how the computer networks are organized with layered approach
20UDSPR601	Project Work	✓	✓			Ability to design, implement and evaluate the project
20UDSSBP601	SBC Practical IV: PHP(Internal Evaluation)	✓	✓	✓	✓	Students to gain the knowledge of PHP programs and HTML webpage



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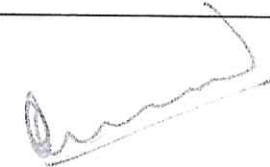
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