

[illegible]

Sem III	T3008	301420307	Cloud Programming using Web Services	Software Development	3	Imad Gokhal	Course Outcome	Understand the basics of Cloud.	45	Global	Strong-H	Strong-H	Strong-H	Strong-H	Weak-L	Weak-L	Strong-H	Strong-H
							Course Outcome	Understand the basics of Web Services.	45	Global	Strong-H	Strong-H	Strong-H	Strong-H	Weak-L	Weak-L	Strong-H	Strong-H
							Course Outcome	Understand GCP	45	Global	Strong-H	Strong-H	Strong-H	Strong-H	Weak-L	Weak-L	Strong-H	Strong-H
							Course Outcome	Understand G3 functionality	45	Global	Strong-H	Strong-H	Strong-H	Strong-H	Weak-L	Weak-L	Strong-H	Strong-H
							Course Outcome	Understand Grid Computing	45	Global	Strong-H	Strong-H	Strong-H	Strong-H	Weak-L	Weak-L	Strong-H	Strong-H
							Course Outcome	Understand AWS utilities	45	Global	Strong-H	Strong-H	Strong-H	Strong-H	Weak-L	Weak-L	Strong-H	Strong-H
Sem III	T3271	301420308	Systems Programming	Software Development	3	Not opted	Course Outcome	To make student learn Linux Distribution with built and modularity of Kernel	45	Global	Weak-L	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome	Students to understand the mechanism of developing Operating System Kernel.	45	Global	Weak-L	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome	To understand Kernel Activities	45	Global	Weak-L	Weak-L	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome	To understand Data Structures with respect to System	45	Global	Weak-L	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome	To understand Backup with respect to system	45	Global	Weak-L	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
Sem III	T3802	301420303	Pilot Project	System Security	2	Not Opted	Course Outcome	To understand Audit	45	Global	Weak-L	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome	To Analyze research problems or industrial problems	30	Global	Weak	Weak	Weak	Weak	Weak	Weak	Weak	Weak
							Course Outcome	To implement the coding knowledge	30	Global	Weak	Weak	Weak	Weak	Weak	Weak	Weak	Weak
							Course Outcome	To design and develop project	30	Global	Weak	Weak	Weak	Weak	Weak	Weak	Weak	Weak
							Course Outcome	To document and test the developed code	30	Global	Weak	Weak	Weak	Weak	Weak	Weak	Weak	Weak
							Course Outcome	To understand the need of delivery deadlines according to project management	30	Global	Weak	Weak	Weak	Weak	Weak	Weak	Weak	Weak
Sem III	T3054	301420310	Vulnerability Assessment and Penetration	System Security	4	Not Opted	Course Outcome	The make student understand the advancement in VAPT	60	Global	Weak-L	Strong-H	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome	To demonstrate how to adopt preventive measures against malicious attacks.	60	Global	Weak-L	Weak-L	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome	To identify the gaps in the system	60	Global	Weak-L	Strong-H	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome	To prepares individuals in the network security discipline for several certifications from a vendor-neutral perspective	60	Global	Weak-L	Strong-H	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome	To teach various AVAPT techniques	60	Global	Weak-L	Weak-L	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
Sem III	T3044	301420311	Security Management Practices	System Security	2	Not Opted	Course Outcome	To identify the need of Security Management	30	Global	Weak	Weak	Weak	Weak	Weak	Weak	Weak	Weak
							Course Outcome	To make student Understand system security functions and its necessity	30	Global	Weak	Weak	Weak	Weak	Weak	Weak	Weak	Weak
							Course Outcome	To make student be able to know the purpose of controls in information Security Management	30	Global	Weak	Weak	Weak	Weak	Weak	Weak	Weak	Weak
							Course Outcome	To address basic issues in Security Management	30	Global	Weak	Weak	Weak	Weak	Weak	Weak	Weak	Weak
							Course Outcome	To Security Management with respect to identify the post benefits of Management	30	Global	Weak	Weak	Weak	Weak	Weak	Weak	Weak	Weak
Sem III	T3542	301420312	Information System Audit	System Security	2	Not Opted	Course Outcome	To identify the need of system audit	30	Global	Weak	Weak	Weak	Weak	Weak	Weak	Weak	Weak
							Course Outcome	To make student Understand system audit functions and its necessity	30	Global	Weak	Weak	Weak	Weak	Weak	Weak	Weak	Weak
							Course Outcome	To make student be able to know the purpose of controls in information systems.	30	Global	Weak	Weak	Weak	Weak	Weak	Weak	Weak	Weak
							Course Outcome	To address basic issues in system audit	30	Global	Weak	Weak	Weak	Weak	Weak	Weak	Weak	Weak
							Course Outcome	To study audit with respect to identify the post benefits of Audit	30	Global	Weak	Weak	Weak	Weak	Weak	Weak	Weak	Weak
Sem III	F0003	301420309	Object-Oriented Programming and Data	Software Development	3	r.Sachin Na	Course Outcome	Students are able to demonstrate different aspects of Object Oriented Analysis and Design.	45	Global	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
							Course Outcome	Students are able to implement principles of requirement analysis and design using UML artifacts.	45	Global	Strong-H	Moderate-M	Strong-H	Strong-H	Weak-L	Weak-L	Strong-H	Strong-H
							Course Outcome	Students are able to learn use case, class diagram, sequence diagram and collaboration diagram.	45	Global	Weak-L	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome	Students are able to learn activity diagram, state diagram, component and deployment diagram.	45	Global	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
							Course Outcome	Students are able to implement types of categories of design patterns on real time requirements.	45	Global	Weak-L	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Weak-L	Moderate-M	Moderate-M
							Course Outcome	Students are able to demonstrate the architecture centric software design.	45	Global	Weak-L	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
Sem III	T3032	301420313	Computer Forensics - Detection and Pre	System Security	3	Not Opted	Course Outcome	Students are able to demonstrate the application of OOAD through case studies.	45	Global	Weak-L	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Strong-H
							Course Outcome	To Make student Analyzing the key risks surrounding computer forensic	45	Global	Weak-L	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome	To explore the 'who, what, and how' of this costly crime.	45	Global	Weak-L	Weak-L	Strong-H	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome	To interpret and investigate specific IT controls with respect to computer fraud.	45	Global	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome	To consider logical access controls, reduced privileged access, application change management and application	45	Global	Weak-L	Weak-L	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome	To Comparing the IT-related threats within the business environment and explore the procedural methods needed	45	Global	Weak-L	Weak-L	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
Sem III	T3543	301420314	Virtualization and Security	System Security	3	Not Opted	Course Outcome	To explain the need of security in virtualization	45	Global	Weak	Weak	Weak	Weak	Weak	Weak	Weak	Weak
							Course Outcome	To explain types of virtualization on different platform	45	Global	Strong	Weak	Weak	Weak	Strong	Weak	Weak	Weak
							Course Outcome	To explain concept of resource allocation	45	Global	Strong	Weak	Weak	Weak	Weak	Strong	Weak	Weak
							Course Outcome	To implement virtualization technologies	45	Global	Strong	Weak	Weak	Weak	Strong	Weak	Weak	Weak
							Course Outcome	To discuss security in virtualization	45	Global	Weak	Strong	Weak	Weak	Weak	Strong	Weak	Weak
							Course Outcome	To describe the concept of designing secure virtual infrastructure	45	Global	Strong	Weak	Weak	Weak	Strong	Weak	Weak	Weak
Sem III	T3540	301420315	Identity and Access Management	System Security	3	Not Opted	Course Outcome	To explain IAM Concepts	45	Global	Moderate	Weak	Weak	Strong	Moderate	Weak	Weak	Strong
							Course Outcome	To discuss IAM Architecture and Concepts	45	Global	Weak	Weak	Weak	Weak	Weak	Weak	Weak	Weak
							Course Outcome	To discuss IAM in Cloud	45	Global	Strong	Weak	Weak	Weak	Weak	Weak	Weak	Weak
							Course Outcome	To explain SSO and Federated Identity	45	Global	Weak	Strong	Weak	Weak	Weak	Weak	Weak	Weak
							Course Outcome	To make student understand Authentication and Access Control	45	Global	Weak	Moderate	Strong	Moderate	Weak	Moderate	Strong	Moderate
Sem III	T3332	301420316	Software Defined Networking	System Security	3	Not Opted	Course Outcome	To make student learn Linux Distribution with built and modularity of Kernel	45	Global	Weak-L	Strong-H	Moderate-M	Weak-L	Weak-L	Moderate-M	Moderate-M	Moderate-M
							Course Outcome	Students to understand the mechanism of developing Operating System Kernel.	45	Global	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome	To understand Kernel Activities	45	Global	Weak-L	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
							Course Outcome	To understand Data Structures with respect to System	45	Global	Weak-L	Weak-L	Weak-L	Moderate-M	Moderate-M	Weak-L	Weak-L	Weak-L
							Course Outcome	To understand Backup with respect to system	45	Global	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
Sem III	F0003	301420317	IoT and Hardware Security	System Security	3	Not Opted	Course Outcome	IAM in AWS Overview	45	Global	Weak	Moderate	Strong	Moderate	Moderate-M	Weak-L	Moderate-M	Weak-L
							Course Outcome	To understand mobile and web security issues.	45	Global	Moderate-M	Moderate-M	Moderate-M	Strong-H	Moderate-M	Weak-L	Moderate-M	Weak-L
							Course Outcome	To understand different security testing.	45	Global	Moderate-M	Strong-H	Weak-L	Moderate-M	Strong-H	Weak-L	Weak-L	Weak-L
Sem III	T3802	301420303	Pilot Project	Data Science	2	r.Sachin Na	Course Outcome	To Analyze research problems or industrial problems	30	Global	Strong	Weak	Strong	Weak	Weak	Weak	Weak	Weak
							Course Outcome	To implement the coding knowledge	30	Global	Weak	Weak	Weak	Weak	Weak	Weak	Weak	Weak
							Course Outcome	To design and develop project	30	Global	Weak	Weak	Weak	Weak	Weak	Weak	Weak	Weak
							Course Outcome	To document and test the developed code	30	Global	Weak	Weak	Weak	Weak	Weak	Weak	Weak	Weak
							Course Outcome	To understand the need of delivery deadlines according to project management	30	Global	Weak	Weak	Weak	Weak	Weak	Weak	Weak	Weak
Sem III	T3578	301420318	Image Processing	Data Science	4	r.Sachin Na	Course Outcome	student will be able to understand the concepts of Digital Image Processing and its fundamental steps and some	60	Global	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
							Course Outcome	Student will be able to apply the Image Enhancement Techniques in Spatial Domain	60	Global	Strong-H	Moderate-M	Strong-H	Strong-H	Weak-L	Weak-L	Strong-H	Strong-H
							Course Outcome	Student will be able to understand and able to apply the Image Enhancement Techniques in Frequency Domain	60	Global	Weak-L	Moderate-M	Weak-L	Weak-L	Strong-H	Strong-H	Weak-L	Weak-L
							Course Outcome	Students will be able to understand and able to identify the Different Noise Models.	60	Global	Strong-H	Weak-L	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
							Course Outcome	Student will be able to explore the different techniques available for Image Restoration in Spatial Domain	60	Global	Weak-L	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
							Course Outcome	Student will be able to explore the different techniques available for Noise Reduction in an Image in Frequency	60	Global	Weak-L	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Strong-H
							Course Outcome	Develop an appreciation for what is involved in learning models from data.	60	Global	Strong-H	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Strong-H	Moderate-M
Sem III	T3579	301420319	Machine Learning Algorithms	Data Science	4	adha Khat	Course Outcome	Understand a wide variety of learning algorithms	60	Global	Strong-H	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Strong-H	Moderate-M
							Course Outcome	Understand how to evaluate models generated from data.	60	Global	Strong-H	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Strong-H	Strong-H
							Course Outcome	Apply the algorithms to a real-world problem.	60	Global	Strong-H	Moderate-M	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H
							Course Outcome	Optimize the models learned.	60	Global	Moderate-M	Moderate-M	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H
							Course Outcome	Create report on expected accuracy	60	Global	Moderate-M	Moderate-M	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H
							Course Outcome	Understand core concepts of ML	60	Global	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H
Sem III	T3008	301420307	Cloud Programming using Web Services	Data Science	3	Not Opted	Course Outcome	Understand the basics of Cloud.	45	Global	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
							Course Outcome	Understand the basics of Web Services.	45	Global	Strong-H	Moderate-M	Strong-H	Strong-H	Weak-L	Weak-L	Strong-H	Strong-H
							Course Outcome	Understand Micro Services architecture.	45	Global	Weak-L	Moderate-M	Weak-L	Weak-L	Strong-H	Strong-H	Weak-L	Weak-L
							Course Outcome	Use Spring Boot for Cloud Applications.	45	Global	Strong-H	Weak-L	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
							Course Outcome	Learn Docker for deployment.	45	Global	Weak-L	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
							Course Outcome	Using Cloud for Microservice deployment	45	Global	Weak-L	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
Sem III	F0003	301420309	Object-Oriented Programming and Data	Software Development	3	r.Sachin Na	Course Outcome	Students are able to demonstrate different aspects of Object Oriented Analysis and Design.	45	Global	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
							Course Outcome	Students are able to implement principles of requirement analysis and design using UML artifacts.	45	Global	Strong-H	Moderate-M	Strong-H	Strong-H	Weak-L	Weak-L	Strong-H	Strong-H
							Course Outcome	Students are able to learn use case, class diagram, sequence diagram and collaboration diagram.	45	Global	Weak-L	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome	Students are able to learn activity diagram, state diagram, component and deployment diagram.	45	Global	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
							Course Outcome	Students are able to implement types of categories of design patterns on real time requirements.	45	Global	Weak-L	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
							Course Outcome	Students are able to demonstrate the architecture centric software design.	45	Global	Weak-L	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
							Course Outcome	Students are able to demonstrate the application of OOAD through case studies.	45	Global	Weak-L	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Strong-H
Sem III	T3448	301420320	Text Analytics	Data Science	3	Not Opted	Course Outcome	To understand the concepts of Natural Language Processing	45	Global	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome	To be able to analyze comments and questions in forums in order to find common pain points your customers face	45	Global	Weak-L</							

						Course Outcome	To work on various data science application	45	Global	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
						Course Outcome	To equip students with a skill to analyze the data generated from IOT devices	45	Global	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
						Course Outcome	To understand various deep learning algorithms	45	Global	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
Sem III	T3566	301420322	Artificial Neural Network and Deep Learning	Data Science	3	Anuja Boli	Course Outcome	To analyze components of ANN	45	Global	Strong-H	Moderate-M	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Weak-L
							Course Outcome	To Understand the Learning rule	45	Global	Strong-H	Moderate-M	Moderate-M	Moderate-M	Strong-H	Weak-L	Moderate-M	Weak-L
							Course Outcome	To develop different single layer/multiple layer network	45	Global	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Weak-L	Moderate-M	Weak-L
							Course Outcome	To understand implementation of hidden layer w.r.t. complexity	45	Global	Strong-H	Strong-H	Moderate-M	Moderate-M	Moderate-M	Weak-L	Moderate-M	Weak-L
							Course Outcome	To implement components of deep Learning	45	Global	Strong-H	Moderate-M	Strong-H	Moderate-M	Strong-H	Strong-H	Strong-H	Moderate-M
Sem III	T3568	301420323	Natural Language Processing	Data Science	3	Anuja Boli	Course Outcome	To understand the basics of Natural Language Processing	45	Global	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
							Course Outcome	To understand the Basic Text processing and Language Models	45	Global	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
							Course Outcome	To understand Tagging problem and Hidden Markov Models	45	Global	Strong-H	Moderate-M	Moderate-M	Strong-H	Strong-H	Strong-H	Moderate-M	Moderate-M
							Course Outcome	To understand what is Parsing and Classification	45	Global	Strong-H	Moderate-M	Moderate-M	Strong-H	Strong-H	Strong-H	Moderate-M	Moderate-M
							Course Outcome	Evaluation of Performance measures: accuracy etc	45	Global	Strong-H	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Strong-H	Moderate-M
							Course Outcome	Case Study on Natural Language Processing Applications	45	Global	Moderate-M	Strong-H	Strong-H	Moderate-M	Strong-H	Strong-H	Strong-H	Strong-H

MSc(CA) Semester II : 2023- 2025 Programme Objectives																		
	PO's	PO's Statement	PO's Category															
	PO1	problems and respective	Global															
	PO2	communicate productively for	Global															
	PO3	industry needs for a particular	Global															
	PO4	intelligence towards system	Global															
	PO5	knowledge of mathematics and	Global															
	PO6	patterns and trends hidden in	Global															
	PO7	design, develop, document and	Global															
	PO8	software delivery deadlines	Global															
Sem	T Code	Course Code	Course Name	Core/Specialisation	Credit	Faculty Name	CO's	CO Statement	CO Target	Category	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
Sem II	T3527	301420201	Big Data: Systems, Programming and Management	Generic Core Course	4	Mr. Rajesh Math	Course Outcome (CO) 1	Understanding Big Data	60	Global	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H
							Course Outcome (CO) 2	Installation of Big Data	60	Global	Moderate-	Moderate-	Moderate-	Moderate-	Moderate-	Moderate-	Moderate-	Moderate-
							Course Outcome (CO) 3	Understanding basics of	60	Global	Moderate-	Moderate-	Moderate-	Moderate-	Moderate-	Moderate-	Moderate-	Moderate-
							Course Outcome (CO) 4	Understanding basics of	60	Global	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H
							Course Outcome (CO) 5	Knowing differences between	60	Global	Moderate-	Moderate-	Moderate-	Moderate-	Moderate-	Moderate-	Moderate-	Moderate-
							Course Outcome (CO) 6	Understanding Apache Pig	60	Global	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H
							Course Outcome (CO) 7	Solving practical problems	60	Global	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H
Sem II	TE7544	301420202	Data Structures and Algori		3	Dr. Shrikant	Course Outcome (CO) 1	understand searching and	60	Global	Weak-L	Moderate-M	Moderate-M	Weak-L	Strong-H	Strong-H	Weak-L	Weak-L
							Course Outcome (CO) 2	understand applications of	60	Global	Weak-L	Moderate-M	Weak-L	Moderate-M	Moderate-M	Weak-L	Moderate-M	Moderate-M
							Course Outcome (CO) 3	understand the link list data	60	Global	Weak-L	Weak-L	Strong-H	Weak-L	Strong-H	Moderate-M	Weak-L	Weak-L
							Course Outcome (CO) 4	understand the types of link	60	Global	Weak-L	Weak-L	Strong-H	Moderate-M	Moderate-M	Moderate-M	Weak-L	Weak-L
							Course Outcome (CO) 5	understand various tree data	60	Global	Weak-L	Moderate-M	Strong-H	Weak-L	Moderate-M	Strong-H	Weak-L	Weak-L
							Course Outcome (CO) 6	understand basics of graph	60	Global	Weak-L	Weak-L	Weak-L	Weak-L	Strong-H	Moderate-M	Weak-L	Weak-L
Sem II	T3344	301420203	DevOps	Generic Core Course	2	Mr. Amod	Course Outcome (CO) 1	DevOps Concepts	60	Global	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H
							Course Outcome (CO) 2	SysOps - AWS, Azure &	60	Global	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
							Course Outcome (CO) 3	Intro to Web Services: APIs,	60	Global	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
							Course Outcome (CO) 4	Puppet for Configuration	60	Global	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H
							Course Outcome (CO) 5	Jenkins for Automated	60	Global	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
							Course Outcome (CO) 6	Git for SCM and Versioning	60	Global	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
Sem II	T3701	301420204	Dissertation	Generic Core Course	2	Dr.Sachin Naik	Course Outcome (CO) 1	To study an existing or new	60	Global	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H
							Course Outcome (CO) 2	To analyse the system	60	Global	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
							Course Outcome (CO) 3	To compare the system with	60	Global	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
							Course Outcome (CO) 4	To design the system	60	Global	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H
							Course Outcome (CO) 5	To evaluate design system	60	Global	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
Sem II	T4005	301420205	Integrated Disaster Management *	Generic Core Course	0	SIHS	Course Outcome (CO) 1	To enable student understand various types of disasters, its	60	Global	Strong-H	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 2	To instill knowledge on	60	Global	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 3	To train students to perform	60	Global	Moderate-M	Strong-H	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
Sem II	T3114	301420206	Object Oriented Analysis	Specilazation Core	4	Dr. Shrikant	Course Outcome (CO) 1	Students are able to	60	Global	Moderate-M	Moderate-M	Weak-L	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M
							Course Outcome (CO) 2	Students are able to	60	Global	Moderate-M	Moderate-M	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M
							Course Outcome (CO) 3	Students are able to learn use	60	Global	Weak-L	Moderate-M	Moderate-M	Weak-L	Weak-L	Weak-L	Strong-H	Weak-L
							Course Outcome (CO) 4	Students are able to learn	60	Global	Moderate-M	Strong-H	Weak-L	Moderate-M	Moderate-M	Weak-L	Weak-L	Strong-H
							Course Outcome (CO) 5	Students are able to	60	Global	Weak-L	Weak-L	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
							Course Outcome (CO) 6	Students are able to	60	Global	Moderate-M	Moderate-M	Moderate-M	Weak-L	Moderate-M	Strong-H	Moderate-M	Strong-H
							Course Outcome (CO) 7	Students are able to	60	Global	Weak-L	Moderate-M	Weak-L	Strong-H	Weak-L	Moderate-M	Weak-L	Weak-L
Sem II	T3120	301420207	Software Project Management	Specilazation Core Course - Software	4	Dr.Sandeep Gaikwad	Course Outcome (CO) 1	At the end of this course students will be able to	60	Global	Strong-H	Strong-H	Strong-H	Strong-H	Moderate-M	Weak-L	Weak-L	Strong-H
							Course Outcome (CO) 2	Students will be able to	60	Global	Moderate-M	Moderate-M	Moderate-M	Strong-H	Moderate-M	Weak-L	Weak-L	Strong-H
							Course Outcome (CO) 3	Students will be able to	60	Global	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Weak-L	Strong-H
							Course Outcome (CO) 4	Students will be able to	60	Global	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Weak-L	Weak-L	Strong-H
							Course Outcome (CO) 5	Students will learn and apply	60	Global	Moderate-M	Moderate-M	Moderate-M	Strong-H	Moderate-M	Weak-L	Weak-L	Strong-H
							Course Outcome (CO) 6	Students will get introductory	60	Global	Strong-H	Strong-H	Strong-H	Strong-H	Moderate-M	Weak-L	Weak-L	Strong-H
							Course Outcome (CO) 7	Students will get introductory	60	Global	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Weak-L	Weak-L	Strong-H
Sem II	T3003	301420208	Android Technologies	Specialization	3	Not opted	Course Outcome (CO) 1	To Understand the Layouts	60	Global	Moderate-M	Moderate-M	Moderate-M	Strong-H	Moderate-M	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 2	To utiliz different view	60	Global	Weak-L	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Weak-L	Weak-L	Moderate-M
							Course Outcome (CO) 3	To Write an Android	60	Global	Moderate-M	Strong-H	Strong-H	Moderate-M	Weak-L	Weak-L	Weak-L	Strong-H
							Course Outcome (CO) 4	To prepare android	60	Global	Moderate-M	Moderate-M	Strong-H	Moderate-M	Moderate-M	Weak-L	Weak-L	Moderate-M
							Course Outcome (CO) 5	Able to develop the android	60	Global	Weak-L	Strong-H	Strong-H	Strong-H	Weak-L	Weak-L	Moderate-M	Moderate-M
							Course Outcome (CO) 6	Able develop the android	60	Global	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Weak-L	Weak-L	Weak-L
Sem II	TE7549	301420209	Cloud Computing and Distributing Systems	Specialization elective: Software	3	Not opted	Course Outcome (CO) 1	Overview of Microsoft Azure	60	Global	Moderate-M	Moderate-M	Moderate-M	Strong-H	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 2	Azure Management Tools	60	Global	Weak-L	Weak-L	Moderate-M	Moderate-M	Strong-H	Weak-L	Moderate-M	Moderate-M
							Course Outcome (CO) 3	Virtual Machines in Azure	60	Global	Weak-L	Weak-L	Moderate-M	Moderate-M	Strong-H	Weak-L	Moderate-M	Moderate-M

							Course Outcome (CO) 4	Creating and configuring	60	Global	Weak-L	Weak-L	Moderate-M	Moderate-M	Strong-H	Weak-L	Moderate-M	Moderate-M
Sem II	T3281	301420210	Data Warehousing	Specialization	3	Not opted	Course Outcome (CO) 1	To understand the basics of	60	Global	Strong-H	Moderate-M	Moderate-M	Weak-L	Weak-L	Moderate-M	Strong-H	Strong-H
							Course Outcome (CO) 2	To understand the basics of	60	Global	Moderate-M	Weak-L	Moderate-M	Moderate-M	Weak-L	Moderate-M	Weak-L	Weak-L
							Course Outcome (CO) 3	To evaluate ETL process	60	Global	Moderate-M	Moderate-M	Weak-L	Moderate-M	Strong-H	Moderate-M	Weak-L	Weak-L
							Course Outcome (CO) 4	DW model development	60	Global	Moderate-M	Weak-L	Moderate-M	Weak-L	Moderate-M	Strong-H	Moderate-M	Moderate-M
							Course Outcome (CO) 5	Evaluation of commercially	60	Global	Weak-L	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Strong-H
							Course Outcome (CO) 6	Project based on specific case	60	Global	Weak-L	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L	Moderate-M	Weak-L
Sem II	T2064	301420211	Entrepreneurship and	Specialization	3	Not opted	Course Outcome (CO) 1	Introduction of	60	Global	Strong-H	Moderate-M	Weak-L	Moderate-M	Weak-L	Moderate-M	Moderate-M	Strong-H
							Course Outcome (CO) 2	Role Entrepreneurship and	60	National/Loc	Strong-H	Strong-H	Moderate-M	Weak-L	Moderate-M	Strong-H	Weak-L	Moderate-M
							Course Outcome (CO) 3	Importance of Business	60	Global	Strong-H	Moderate-M	Weak-L	Moderate-M	Weak-L	Moderate-M	Moderate-M	Strong-H
							Course Outcome (CO) 4	To understand global	60	Global	Strong-H	Moderate-M	Weak-L	Moderate-M	Weak-L	Moderate-M	Moderate-M	Strong-H
							Course Outcome (CO) 5	To understand the dynamics	60	Regional/Nat	Strong-H	Moderate-M	Weak-L	Moderate-M	Weak-L	Strong-H	Weak-L	Moderate-M
							Course Outcome (CO) 6	To Understand different types	60	Global	Strong-H	Moderate-M	Weak-L	Moderate-M	Weak-L	Moderate-M	Moderate-M	Strong-H
Sem II	T3406	301420212	Foundation Web	Specialization	3	Not opted	Course Outcome (CO) 1	understand various web	60	Global	Weak-L	Weak-L	Strong-H	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 2	Able to develop a software	60	Global	Strong-H	Strong-H	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 3	understand the analysis of risk	60	Global	Weak-L	Weak-L	Weak-L	Weak-L	Moderate-M	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 4	Understand management	60	Global	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Strong-H
Sem II	T3356	301420213	NOSQL Databases	Specialization	3	Mr.Anirudha	Course Outcome (CO) 1	To Understand the basics of	60	Global	Strong-H	Moderate-M	Strong-H	Weak-L	Moderate-M	Moderate-M	Weak-L	Weak-L
							Course Outcome (CO) 2	To Understand the techniques	60	Global	Strong-H	Moderate-M	Strong-H	Weak-L	Moderate-M	Moderate-M	Weak-L	Weak-L
							Course Outcome (CO) 3	To evaluate Case studies –	60	Global	Strong-H	Moderate-M	Strong-H	Weak-L	Moderate-M	Moderate-M	Weak-L	Weak-L
							Course Outcome (CO) 4	To Use Sharding , Persistence	60	Global	Strong-H	Moderate-M	Strong-H	Weak-L	Moderate-M	Moderate-M	Weak-L	Weak-L
							Course Outcome (CO) 5	To Use Clustering, automatic	60	Global	Strong-H	Moderate-M	Strong-H	Weak-L	Moderate-M	Moderate-M	Weak-L	Weak-L
							Course Outcome (CO) 6	To Understand apache	60	Global	Strong-H	Moderate-M	Strong-H	Weak-L	Moderate-M	Moderate-M	Weak-L	Weak-L
Sem II	T3018	301420214	R Programming	Specialization	3	Not opted	Course Outcome (CO) 1	To understand the basics of R	60	Global	Strong-H	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 2	To build skills of	60	Global	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 3	To solve the problems in	60	Global	Weak-L	Weak-L	Weak-L	Weak-L	Strong-H	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 4	To explain various R Program	60	Global	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 5	To explain need of R	60	Global	Weak-L	Weak-L	Weak-L	Weak-L	Strong-H	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 6	To explain the importance of	60	Global	Weak-L	Weak-L	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
Sem II	T3124	301420215	Software Verification and Validation	Specialization elective: Software Development	3	Ms.Kirti Mehare	Course Outcome (CO) 1	Understand the basics of software Testing	60	Global	Strong-H	Moderate-M	Moderate-M	Moderate-M	Weak-L	Weak-L	Moderate-M	Weak-L
							Course Outcome (CO) 2	Understand the test plan and	60	Global	Strong-H	Strong-H	Moderate-M	Moderate-M	Weak-L	Weak-L	Moderate-M	Weak-L
							Course Outcome (CO) 3	Understand defect and its	60	Global	Moderate-M	Weak-L	Moderate-M	Moderate-M	Moderate-M	Weak-L	Moderate-M	Moderate-M
							Course Outcome (CO) 4	Use software testing	60	Global	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Moderate-M	Weak-L	Weak-L
							Course Outcome (CO) 5	Understanding software	60	Global	Moderate-M	Moderate-M	Moderate-M	Weak-L	Weak-L	Moderate-M	Moderate-M	Weak-L
							Course Outcome (CO) 6	Use software testing tools	60	Global	Moderate-M	Moderate-M	Moderate-M	Weak-L	Weak-L	Moderate-M	Moderate-M	Weak-L
Sem II	T3022	301420216	Cryptography	Specialization Core	3	Not opted	Course Outcome (CO) 1	To understand the basics of	60	Global	Weak-L	Weak-L	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 2	To understand cryptography	60	Global	Weak-L	Weak-L	Strong-H	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 3	To build to understand and	60	Global	Weak-L	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 4	to understand the need of	60	Global	Weak-L	Weak-L	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 5	to understand the types of	60	Global	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
Sem II	T3034	301420217	Database and Application	Specialization Core	3	Not opted	Course Outcome (CO) 1	To understand database	60	Global	Weak-L	Weak-L	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 2	to understand types of	60	Global	Weak-L	Weak-L	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 3	To understand various	60	Global	Weak-L	Weak-L	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 4	To compare various database	60	Global	Weak-L	Weak-L	Moderate-M	Weak-L	Strong-H	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 5	To study various case studies	60	Global	Weak-L	Weak-L	Moderate-M	Weak-L	Strong-H	Weak-L	Weak-L	Weak-L
Sem II	T3617	301420218	Security Standards	Specialization Core	2	Not opted	Course Outcome (CO) 1	To understand the importance	60	Global	Weak-L	Weak-L	Moderate-M	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 2	To make student understand	60	Global	Weak-L	Weak-L	Moderate-M	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 3	To identify advantage of the	60	Global	Weak-L	Weak-L	Strong-H	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 4	To analyse the need of security	60	Global	Weak-L	Weak-L	Moderate-M	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 5	To make students in	60	Global	Weak-L	Weak-L	Moderate-M	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L
Sem II	TE7549	301420209	Cloud Computing and	Specialization	3	Not opted	Course Outcome (CO) 1	Overview of Microsoft Azure	60	Global	Moderate-M	Moderate-M	Moderate-M	Strong-H	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 2	Azure Management Tools	60	Global	Weak-L	Weak-L	Moderate-M	Moderate-M	Strong-H	Weak-L	Moderate-M	Moderate-M
							Course Outcome (CO) 3	Virtual Machines in Azure	60	Global	Weak-L	Weak-L	Moderate-M	Moderate-M	Strong-H	Weak-L	Moderate-M	Moderate-M
							Course Outcome (CO) 4	Creating and configuring	60	Global	Weak-L	Weak-L	Moderate-M	Moderate-M	Strong-H	Weak-L	Moderate-M	Moderate-M
Sem II	T2064	301420211	Entrepreneurship and	Specialization	3	Not opted	Course Outcome (CO) 1	Introduction of	60	Global	Strong-H	Moderate-M	Weak-L	Moderate-M	Weak-L	Moderate-M	Moderate-M	Strong-H
							Course Outcome (CO) 2	Role Entrepreneurship and	60	National/Loc	Strong-H	Strong-H	Moderate-M	Weak-L	Moderate-M	Strong-H	Weak-L	Moderate-M
							Course Outcome (CO) 3	Importance of Business	60	Global	Strong-H	Moderate-M	Weak-L	Moderate-M	Weak-L	Moderate-M	Moderate-M	Strong-H
							Course Outcome (CO) 4	To understand global	60	Global	Strong-H	Moderate-M	Weak-L	Moderate-M	Weak-L	Moderate-M	Moderate-M	Strong-H
							Course Outcome (CO) 5	To understand the dynamics	60	Regional/Nat	Strong-H	Strong-H	Moderate-M	Weak-L	Moderate-M	Strong-H	Weak-L	Moderate-M
							Course Outcome (CO) 6	To Understand different types	60	Global	Strong-H	Moderate-M	Weak-L	Moderate-M	Weak-L	Moderate-M	Moderate-M	Strong-H
Sem II	T3618	301420219	IT Audit and Risk	Specialization	2	Not opted	Course Outcome (CO) 1	Software audit concepts.	60	Global	Strong	Strong	Strong	Moderate	Moderate	Strong	Strong	Strong
							Course Outcome (CO) 2	ANSI/ISO/ASQC Q10011-	60	Global	Strong	Strong	Strong	Moderate	Moderate	Strong	Strong	Strong
							Course Outcome (CO) 3	Audit phases.	60	National /	Strong	Strong	Moderate	Strong	Strong	Moderate	Moderate	Moderate
							Course Outcome (CO) 4	Students should understand	60	National /	Strong	Strong	Moderate	Strong	Strong	Moderate	Moderate	Moderate
							Course Outcome (CO) 5	Software reviews and audits	60	Global	Moderate	Moderate	Strong	Weak	Weak	Strong	Strong	Strong
Sem II	T3625	301420220	Network Security Testing	Specialization	2	Not opted	Course Outcome (CO) 1	Aims in providing hands on	60	Global	Strong	Weak	Weak	Weak	Strong	Weak	Weak	Weak

							Course Outcome (CO) 2	To explain implementing	60	Global	Strong	Moderate	Weak	Weak	Weak	Weak	Weak	Weak
							Course Outcome (CO) 3	To experiment the network	60	Global	Moderate	Weak	Weak	Weak	Moderate	Weak	Weak	Weak
							Course Outcome (CO) 4	To understand need for	60	Global	Moderate	Weak	Weak	Weak	Moderate	Weak	Weak	Weak
							Course Outcome (CO) 5	To understand tools for	60	Global	Weak	Moderate	Weak	Weak	Strong	Weak	Weak	Weak
Sem II	T3645	301420221	Secure Software	Specialization	2	Not opted	Course Outcome (CO) 1	To understand the importance	60	Global	Weak-L	Weak-L	Moderate-M	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 2	To make student understand	60	Global	Weak-L	Weak-L	Moderate-M	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 3	To identify advantage of the	60	Global	Weak-L	Weak-L	Strong-H	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 4	To analyse the need of secure	60	Global	Weak-L	Weak-L	Moderate-M	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 5	To make students in	60	Global	Weak-L	Weak-L	Moderate-M	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L
Sem II	T3619	301420222	Web Application Security	Specialization	2	Not opted	Course Outcome (CO) 1	To Understand the basics of	60	Global	Strong-H	Moderate-M	Strong-H	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 2	Studying different types of	60	Global	Strong-H	Moderate-M	Strong-H	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 3	Techniques to prevent such	60	Global	Strong-H	Moderate-M	Strong-H	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 4	Learn latest practices to secure	60	Global	Strong-H	Moderate-M	Strong-H	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 5	After learning fundamentals of	60	Global	Strong-H	Moderate-M	Strong-H	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
Sem II	T3120	301420207	Software Project Management	Specilization Core Course - Data cience	4	Dr.Sandeep Gaikwad	Course Outcome (CO) 1	At the end of this course students will be able to	60	Global	Strong-H	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
							Course Outcome (CO) 2	Students will be able to	60	National/Loc	Strong-H	Moderate-M	Strong-H	Moderate-M	Moderate-M	Strong-H	Strong-H	Strong-H
							Course Outcome (CO) 3	Students will be able to	60	National/Loc	Strong-H	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
							Course Outcome (CO) 4	Students will be able to	60	Global	Strong-H	Moderate-M	Strong-H	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M
							Course Outcome (CO) 5	Students will learn and apply	60	National/Loc	Strong-H	Moderate-M	Strong-H	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M
							Course Outcome (CO) 6	Students will get introductory	60	National/Loc	Strong-H	Moderate-M	Strong-H	Moderate-M	Strong-H	Strong-H	Strong-H	Strong-H
							Course Outcome (CO) 7	Students will get introductory	60	National/Loc	Strong-H	Moderate-M	Strong-H	Moderate-M	Strong-H	Strong-H	Strong-H	Strong-H
Sem II	T3576	301420223	Computation Methods	Specilization Core Course - Data cience	2	Mr.Annirudh Kshirsagar	Course Outcome (CO) 1	Introduction to Linear Algebra	60	Global	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H
							Course Outcome (CO) 2	Problems in Linear	60	Global	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
							Course Outcome (CO) 3	Introduction to Matrix	60	Global	Strong-H	Strong-H	Strong-H	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M
							Course Outcome (CO) 4	Solving the problem Row on	60	Global	Moderate-M	Moderate-M	Weak-L	Weak-L	Weak-L	Moderate-M	Moderate-M	Moderate-M
							Course Outcome (CO) 5	Eigenvalues and Eigenvectors	60	Global	Strong-H	Strong-H	Moderate-M	Moderate-M	Weak-L	Weak-L	Strong-H	Strong-H
							Course Outcome (CO) 6	Mathematical Algorithms	60	Global	Strong-H	Strong-H	Moderate-M	Moderate-M	Weak-L	Weak-L	Strong-H	Strong-H
Sem II	T3577	301420224	Data Analysis Using Python	Specilization Core Course - Data cience	2	Mr. Prathamesh Lahande	Course Outcome (CO) 1	To discuss and exercise different array operations using Numpy	60	Global	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H
							Course Outcome (CO) 2	To discuss case study based	60	National/Loc	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H
							Course Outcome (CO) 3	To understand concept of data	60	Global	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H
							Course Outcome (CO) 4	To discuss case studies on	60	Global	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H	Strong-H
							Course Outcome (CO) 5	To understand and implement	60	Global	Moderate-M	Moderate-M	Strong-H	Strong-H	Moderate-M	Strong-H	Strong-H	Weak-L
							Course Outcome (CO) 6	To understand and implement										
Sem II	TE7549	301420209	Cloud Computing and Distributing Systems	Specilization Elective - Data cience	3	Not opted	Course Outcome (CO) 1	Overview of Microsoft Azure	60	Global	Moderate-M	Moderate-M	Moderate-M	Strong-H	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 2	Azure Management Tools	60	Global	Weak-L	Weak-L	Moderate-M	Moderate-M	Strong-H	Weak-L	Moderate-M	Moderate-M
							Course Outcome (CO) 3	Virtual Machines in Azure	60	Global	Weak-L	Weak-L	Moderate-M	Moderate-M	Strong-H	Weak-L	Moderate-M	Moderate-M
							Course Outcome (CO) 4	Creating and configuring	60	Global	Weak-L	Weak-L	Moderate-M	Moderate-M	Strong-H	Weak-L	Moderate-M	Moderate-M
Sem II	T3281	301420210	Data Warehousing	Specilization Elective	3	Not opted	Course Outcome (CO) 1	To understand the basics of	60	Global	Strong-H	Moderate-M	Moderate-M	Weak-L	Weak-L	Moderate-M	Strong-H	Strong-H
							Course Outcome (CO) 2	To understand the basics of	60	Global	Moderate-M	Weak-L	Moderate-M	Moderate-M	Weak-L	Moderate-M	Weak-L	Weak-L
							Course Outcome (CO) 3	To evaluate ETL process	60	Global	Moderate-M	Moderate-M	Weak-L	Moderate-M	Strong-H	Moderate-M	Weak-L	Weak-L
							Course Outcome (CO) 4	DW model development	60	Global	Moderate-M	Weak-L	Moderate-M	Weak-L	Moderate-M	Strong-H	Moderate-M	Moderate-M
							Course Outcome (CO) 5	Evaluation of commercially	60	Global	Weak-L	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Strong-H
							Course Outcome (CO) 6	Project based on specific case	60	Global	Weak-L	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L	Moderate-M	Weak-L
Sem II	T2064	301420211	Entrepreneurship and	Specilization Elective	3	Not opted	Course Outcome (CO) 1	Introduction of	60	Global	Strong-H	Moderate-M	Weak-L	Moderate-M	Weak-L	Moderate-M	Moderate-M	Strong-H
							Course Outcome (CO) 2	Role Entrepreneurship and	60	National/Loc	Strong-H	Moderate-M	Weak-L	Moderate-M	Strong-H	Weak-L	Moderate-M	Moderate-M
							Course Outcome (CO) 3	Importance of Business	60	Global	Strong-H	Moderate-M	Weak-L	Moderate-M	Weak-L	Moderate-M	Moderate-M	Strong-H
							Course Outcome (CO) 4	To understand global	60	Global	Strong-H	Moderate-M	Weak-L	Moderate-M	Weak-L	Moderate-M	Moderate-M	Strong-H
							Course Outcome (CO) 5	To understand the dynamics	60	Regional/Nat	Strong-H	Moderate-M	Weak-L	Moderate-M	Strong-H	Weak-L	Weak-L	Moderate-M
							Course Outcome (CO) 6	To Understand different types	60	Global	Strong-H	Moderate-M	Weak-L	Moderate-M	Weak-L	Moderate-M	Moderate-M	Strong-H
Sem II	T3356	301420213	NOSQL Databases	Specilization Elective	3	Mr.Anirudha	Course Outcome (CO) 1	To Understand the basics of	60	Global	Strong-H	Moderate-M	Strong-H	Weak-L	Moderate-M	Moderate-M	Weak-L	Weak-L
							Course Outcome (CO) 2	To Understand the techniques	60	Global	Strong-H	Moderate-M	Strong-H	Weak-L	Moderate-M	Moderate-M	Weak-L	Weak-L
							Course Outcome (CO) 3	To evaluate Case studies –	60	Global	Strong-H	Moderate-M	Strong-H	Weak-L	Moderate-M	Moderate-M	Weak-L	Weak-L
							Course Outcome (CO) 4	To Use Sharding , Persistence	60	Global	Strong-H	Moderate-M	Strong-H	Weak-L	Moderate-M	Moderate-M	Weak-L	Weak-L
							Course Outcome (CO) 5	To Use Clustering, automatic	60	Global	Strong-H	Moderate-M	Strong-H	Weak-L	Moderate-M	Moderate-M	Weak-L	Weak-L
							Course Outcome (CO) 6	To Understand apache	60	Global	Strong-H	Moderate-M	Strong-H	Weak-L	Moderate-M	Moderate-M	Weak-L	Weak-L
Sem II	T3018	301420214	R Programming	Specilization Elective	3	Not opted	Course Outcome (CO) 1	To understand the basics of R	60	Global	Strong-H	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 2	To build skills of	60	Global	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 3	To solve the problems in	60	Global	Weak-L	Weak-L	Weak-L	Weak-L	Strong-H	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 4	To explain various R Program	60	Global	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 5	To explain need of R	60	Global	Weak-L	Weak-L	Weak-L	Weak-L	Strong-H	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 6	To explain the importance of	60	Global	Weak-L	Weak-L	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
Sem II	T3567	301420227	Data Analysis and Visualization	Specilization Elective - Data Science	3	Ms. Komal Dhoka	Course Outcome (CO) 1	To understand all basics of Data Analysis and	60	Global	Strong-H	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L

							Course Outcome (CO) 2	To analyze, model and	60	Global	Strong-H	Moderate-M	Moderate-M	Weak-L	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 3	Understand different aspects	60	Global	Weak-L	Moderate-M	Strong-H	Strong-H	Moderate-M	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 4	Plotting data	60	Global	Weak-L	Weak-L	Strong-H	Strong-H	Weak-L	Weak-L	Weak-L	Weak-L
							Course Outcome (CO) 5	Tools and Techniques	60	Global	Weak-L	Weak-L	Strong-H	Strong-H	Strong-H	Moderate-M	Moderate-M	Moderate-M
							Course Outcome (CO) 6	Case Study	60	Global	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Strong-H	Strong-H	Strong-H
Sem II	T3268	301420228	Fuzzy Logic	Specilazation Elective	3	Not opted	Course Outcome (CO) 1	To understand the concepts of	60	Global	Strong	Weak	Weak	Weak	Weak	Weak	Weak	Weak
							Course Outcome (CO) 2	To understand the importance	60	Global	Weak	Moderate	Weak	Weak	Weak	Weak	Weak	Weak
							Course Outcome (CO) 3	To understand the usage of	60	Global	Weak	Moderate	Weak	Weak	Weak	Weak	Weak	Weak
							Course Outcome (CO) 4	To explain various	60	Global	Strong	Weak	Weak	Weak	Weak	Weak	Weak	Weak
							Course Outcome (CO) 5	To understand the need of	60	Global	Weak	Moderate	Weak	Weak	Weak	Weak	Weak	Weak
							Course Outcome (CO) 6	To discuss Fuzzy with various	60	Global	Weak	Moderate	Weak	Weak	Weak	Weak	Weak	Weak
Sem IV	T3916	30142401 - PP	Industry Internship	Generic Core	16	Dr.Sachin Naik	Course Outcome (CO) 1	To provide industrial exposure	60	Global	Moderate-M	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
							Course Outcome (CO) 2	To provide platform for the	60	Global	Moderate-M	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
							Course Outcome (CO) 3	To solve complex industrial	60	Global	Moderate-M	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
							Course Outcome (CO) 4	To implement there	60	Global	Moderate-M	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Moderate-M
							Course Outcome (CO) 5	To learn hands on during	60	Global	Moderate-M	Moderate-M	Strong-H	Moderate-M	Moderate-M	Moderate-M	Moderate-M	Strong-H