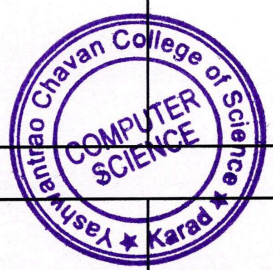
M. Sc. Computer Science - II 2024-25				
COURSE OUTCOMES (COs)				
SEM – III	MMT-301	Advanced PHP	CO1	To introduce students to the PHP programming language and its role in web development.
			CO2	To enable students to write PHP code for web applications.
			CO3	To teach students how to integrate PHP with HTML for dynamic web content.
			CO4	To provide hands-on experience in working with PHP to interact with MySQL databases.
			CO5	To encourage problem-solving and critical thinking through practical coding exercises.
	MMT-302	Data Science	CO1	Learn basic statistics required for data science.
			CO2	Visualize the data in different forms.
			CO3	Learn and implement different visualization tools for data science.
			CO4	Learn, understand and apply the concepts of probability theory for data science.
			CO5	Learn and apply various clustering techniques for data science.
			CO6	Learn and implement data science concepts in python.
	MMPR-303	Practical-III	CO1	To provide students with a basic grasp of PHP as a server-side scripting language.
			CO2	To instruct students in PHP syntax and core language features, such as variables, data types, operators, and control structures.
			CO3	To enable students to use PHP for web development, including creating dynamic web pages, managing forms, and interacting with databases.
			CO4	To teach students how to connect PHP with databases like MySQL and perform CRUD operations.
			CO5	To teach students the concept of PHP framework and integration of database system into the framework and perform CRUD (Create, Read, Update, Delete) operations.

Yashwantrao Chavan College of Science ★ COMPUTER SCIENCE ★ Karad

			CO6	To learn and implement data science concepts using python.
	MMT-304	Data Engineering	CO1	To introduce students to data storage systems and technologies commonly used in data engineering.
			CO2	To enable students to design and implement databases for efficient data storage and retrieval
			CO3	To teach students how to optimize data storage and access patterns for performance.
			CO4	To explore data security and privacy considerations in data engineering.
			CO5	To provide experience in using cloud-based storage and database services.
	MET-305	Big Data Analytics	CO1	Understand the key issues in big data management and its associated applications in intelligent business and scientific computing.
			CO2	Understanding different tools for Big Data Analytics.
			CO3	Develop Big Data Solutions using Hadoop Eco System
	MET-306	Machine Learning	CO1	To understand fundamental concepts of machine learning and its various algorithms.
			CO2	To understand various strategies of generating models from data and evaluating them.
			CO3	To apply ML algorithms on given data and interpret the results obtained.
			CO4	To design appropriate ML solution to solve real world problems in AI domain.
	RP-307	Research Project	CO1	find current research domains in computer science
			CO2	identify different research journals in computer science domains
			CO3	understand citations, impact factors, references etc.
			CO4	identification of appropriate societal issues.
			CO5	development of applications to address identified societal issue.
	MMT-401	Mobile Application Development	CO1	Learn about the features and installation of Android and kotlin
			CO2	Learn about basic programming with Android



				Kotlin
			CO3	Develop mobile applications using database Connections
			CO4	Develop simple mobile applications in Flutter using Dart language
			CO5	Learn to Create a full-fledged mobile app and deploy
	MMT-402	Full Stack Development	CO1	Understand the unique trade-offs present in event-driven programming.
			CO2	Create Node.js modules and express code modularity in an application.
			CO3	Understand the core flow control patterns in Node.js and know when it is appropriate to use callbacks, event emitters or streams
			CO4	Connect with MongoDB to perform various operations
SEM – IV	MMPR-403	Practical-IV	CO1	Understanding Web Development, Front-End Development: Teach students how to create responsive and interactive user interfaces using HTML, CSS, and JavaScript.
			CO2	Back-End Development: Introduce students to server-side programming and database management, typically using languages like Node.js, Python, Ruby, Java, or PHP, along with frameworks like Express, Flask, or Django.
			CO3	Database Integration: Teach students how to design, create, and manage databases,including SQL and NoSQL databases like MySQL, PostgreSQL, MongoDB, or Firebase.
			CO4	Learn about basic programming with Android Kotlin
			CO5	Develop mobile applications using database Connections
			CO6	Develop simple mobile applications in Flutter using Dart language.
			CO7	Learn to Create a full-fledged mobile app and deploy
	MET-404	Natural Language Processing	CO1	To learn the fundamentals of natural language processing.
			CO2	Understand approaches to syntax and semantics in NLP.
			CO3	To understand the use of CFG and PCFG in NLP

Yashwantrao Chavan College of Science ★ Karad ★ COMPUTER SCIENCE

			CO4	To familiarize the concepts and techniques of Natural language Processing for analyzing words based on Morphology
	MET-405	Agile Project Management	CO1	Understand the principles of Agile Manifesto.
			CO2	Learn the project management approaches.
			CO3	Understand concept of Scrum its values and roles.
			CO4	Apply agile project constraints and trade-offs for estimating project size and schedule.
	RP-406	Research Project	CO1	investigate and design a model for research problem identified.
			CO2	implementation of model with appropriate software tools.
			CO3	benchmark the experimental results.
			CO4	writing a research article.
			CO5	identification of appropriate societal issues.
			CO6	development of applications to address identified societal issue.

Yashwantrao Chavan College of Science ★ Karad ★ COMPUTER SCIENCE

Head
Department of Computer Science
Yashwantrao Chavan College of Science
Karad