



VEMANA INSTITUTE OF TECHNOLOGY

Koramangala, Bengaluru - 34

Department of Computer Science & Engineering



Course Outcomes & CO-PO-PSO Mapping and Justification

Subject	Big Data Analytics	17CS82
COURSE OUTCOMES:		
CO No.	On completion of this course, students will be able to:	Cognitive Level
17CS82.1	Understand Hadoop Distributed File System and examine Map Reduce Programming.	L2
17CS82.2	Understand Hadoop tools and manage Hadoop with Ambari.	L2
17CS82.3	Understand Business Intelligence Concepts, Data Warehousing, Data Mining, Data Visualization.	L2
17CS82.4	Apply core data mining techniques for data analytics.	L3
17CS82.5	Apply various Text Mining and Web Mining Techniques.	L3

CO-PO-PSO MAPPING

CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO1	PSO2	PSO3
17CS82.1	2	-	-	1	-	-	-	-	-	-	-	1	1	-	-
17CS82.2	2	-	-	1	-	-	-	-	-	-	-	1	1	-	-
17CS82.3	2	2	2	1	-	-	-	-	1	-	-	1	1	1	-
17CS82.4	2	2	2	1	-	-	-	-	1	-	-	1	1	1	-
17CS82.5	2	2	2	1	-	-	-	-	1	-	-	1	1	1	-
Avg. Mapping	2.0	2.0	2.0	1.0	-	-	-	-	1.0	-	-	1.0	1.0	1.0	-

CO-PO-PSO JUSTIFICATION

CO No.	PO/PSO	CL	Justification
17CS82.1	PO1	2	Moderately having the Knowledge of the fundamental concepts of Big Data management and analytics helps in solving complex engineering problems.
	PO4	1	Slightly having the knowledge of Big Data management and analytics concepts knowledge can be used to design and conduct experiments to provide valid conclusions.
	PO12	1	Slightly the student will become aware of the need for lifelong learning and the continued upgrading of technical knowledge .
	PSO1	1	Slightly the student will study of fundamental concepts of Big Data management and analytics acquire skills to design, analyse and develop algorithms and implement them using high-level programming languages .
17CS82.2	PO1	2	Moderately having Knowledge of Map Reduce paradigm and the Apache Hadoop system involves solving complex engineering problems.
	PO4	1	Moderately having Knowledge of Map Reduce paradigm and the Hadoop system knowledge can be used to conduct experiments in real life problems to provide valid conclusions.
	PO12	1	Slightly the student will become aware of the need for lifelong learning and the continued upgrading of technical knowledge.
	PSO1	1	Slightly the student will study of fundamental concepts of Hadoop Map Reduce and Hadoop administration acquire skills to design, analyse and develop algorithms and implement them using high-level programming languages.
17CS82.3	PO1	2	Moderately having the Knowledge of the fundamental concepts of Business Intelligence, Data Mining, Data Warehousing, Data visualization helps in solving complex engineering problems.
	PO2	2	Moderately the student will know Principles of mathematics and engineering sciences are used in various aspects of data analytic approaches.
	PO3	2	Moderately the student using the knowledge of statistical concepts, we can design and develop solutions for complex engineering problems
	PO4	1	Slightly the student will study the statistical concepts and inferences can be used to design and conduct experiments to provide valid conclusions.
	PO9	1	Expertise developed, which will enable the student to become a productive member of a design team
	PO12	1	The student will become aware of the need for lifelong learning and the continued upgrading of technical knowledge.

	PSO1	1	Slightly the student will study the fundamental concepts of Business Intelligence, Data Mining, Data Warehousing, Data visualization and acquire skills to design, analyse and develop algorithms and implement them using high-level programming languages .
	PSO2	1	Slightly the student will have the knowledge of data analytics concepts contribute skills in computing and knowledge engineering domain.
17CS82.4	PO1	2	Moderately the student will have the Knowledge of various data analytic approaches involves solving complex engineering problems.
	PO2	2	Moderately the student will know the Principles of mathematics and engineering sciences are used in various aspects of data analytic approaches .
	PO3	2	Moderately the student using the knowledge of statistical concepts, we can design and develop solutions for complex engineering problems .
	PO4	1	Slightly the student using the Statistical concepts and inferences can be used to design and conduct experiments to provide valid conclusions .
	PO9	1	Expertise developed, which will enable the student to become a productive member of a design team.
	P012	1	The student will become aware of the need for lifelong learning and the continued upgrading of technical knowledge.
	PSO1	1	Slightly the student will learn various data analytic approaches such as decision tree, neural networks acquire skills to design, analyse and develop algorithms and implement them using high-level programming languages.
	PSO2	1	Slightly the student will learn Different Classification concepts contribute skills in computing and knowledge engineering domain.
17CS82.5	PO1	2	Moderately the student have the knowledge of theoretical foundations of text, web mining involves solving complex engineering problems .
	PO2	2	Moderately the student know the principles of mathematics and engineering sciences are used in theoretical foundations of text, web mining techniques.
	PO3	2	Moderately the student have the knowledge of theoretical foundations of text, web mining can be used to design and develop solutions for complex engineering problems.
	PO4	1	Slightly mapped as Student Theoretical foundations of frequent web mining knowledge can be used to design and conduct experiments to provide valid conclusions.
	PO9	1	Expertise developed, which will enable the student to become a productive member of a design team.
	P012	1	The student will become aware of the need for lifelong learning and the continued upgrading of technical knowledge.
	PSO1	1	Slightly the student will learn Theoretical foundations of the text, web mining and acquire skills to design, analyse and develop algorithms and implement them using high-level programming languages.

	PSO2	1	Slightly the student will learn Theoretical foundations of the text ,web mining techniques contribute skills in computing and knowledge engineering domain
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Prepared by

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