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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Outcomes & CO-PO-PSO Mapping and Justification

Subject	Big Data and Analytics	18CS72
COURSE OUTCOMES:		
CO No.	On completion of this course, students will be able to:	Cognitive Level
18CS72.1	Understand fundamentals of Big Data analytics .	L2
18CS72.2	Understand Hadoop framework and Hadoop Distributed File system.	L2
18CS72.3	Illustrate the concepts of NoSQL using MongoDB and Cassandra for Big Data.	L2
18CS72.4	Demonstrate the Map Reduce programming model to process the big data along with Hadoop tools	L2
18CS72.5	Apply machine Learning algorithms for real world big data., web contents and Social Networks to provide analytics with relevant visualization tools.	L3

CO-PO-PSO MAPPING

CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
18CS72.1	2	-	-	1	-	-	-	-	-	-	-	1	1	-	-
18CS72.2	2	-	1	1	-	-	-	-	-	-	-	1	1	-	-
18CS72.3	2	-	2	1	-	-	-	-	-	-	-	1	1	1	-
18CS72.4	2	1	2	1	-	-	-	-	-	-	-	1	1	1	-
18CS72.5	2	2	2	1	-	-	-	-	-	-	-	1	1	1	-

Avg. Mapping	2.0	1.5	1.75	1.0	-	-	-	-	-	-	-	1.0	1.0	1.0	-
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CO-PO-PSO JUSTIFICATION

CO No.	PO/PSO	CL	Justification
18CS72.1	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
18CS72.2	PO1	2	Moderately having Knowledge of Hadoop framework and Hadoop Distributed File system involves solving complex engineering problems
	PO3	1	Slightly the student using the knowledge of Hadoop framework and Hadoop Distributed File system, we can design and develop solutions for complex engineering problems
	PO4	1	Slightly having the knowledge of Hadoop framework and Hadoop Distributed File system concepts 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 Hadoop framework and Hadoop Distributed File system acquire skills to design, analyse and develop algorithms and implement them using high-level programming languages.
18CS72.3	PO1	2	Moderately having Knowledge of NoSQL using MongoDB and Cassandra involves solving complex engineering problems

	PO3	2	Moderately the student using the knowledge of NoSQL using MongoDB and Cassandra, we can design and develop solutions for complex engineering problems
	PO4	1	Slightly having the knowledge of NoSQL using MongoDB and Cassandra concepts 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 NoSQL using MongoDB and Cassandra File system acquire skills to design, analyse and develop algorithms and implement them using high-level programming languages.
18CS72.4	PO1	2	Moderately having Knowledge of Map Reduce paradigm and the Hadoop system involves solving complex engineering problems
	PO2	1	Slightly 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
	PO3	2	Moderately the student using the knowledge of Map Reduce paradigm and the Hadoop system, we can design and develop solutions for complex engineering problems
	PO4	1	Slightly having the knowledge of Map Reduce paradigm and the Hadoop system concepts 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 Hadoop Map Reduce and Hadoop administration acquire skills to design, analyse and develop algorithms and implement them using high-level programming languages.
18CS72.5	PO1	2	Moderately having Knowledge of machine Learning algorithms for real world big data., web contents and Social Networks involves solving complex engineering problems
	PO2	2	Moderately having Knowledge of machine Learning algorithms for real world big data., web contents and Social Networks knowledge can be used to conduct experiments in real life problems to provide valid conclusions

	PO3	2	Moderately the student using the knowledge of machine Learning algorithms for real world big data., web contents and Social Networks, we can design and develop solutions for complex engineering problems
	PO4	1	Slightly having the knowledge of machine Learning algorithms for real world big data., web contents and Social Networks concepts 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 machine Learning algorithms for real world big data., web contents and Social Networks acquire skills to design, analyse and develop algorithms and implement them using high-level programming languages.

Prepared by

HoD

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