Hope Foundation's

International Institute of Information Technology P-14, Rajiv Gandhi Info Park, Phase 1, Hinjawadi, Pune 411057

Department of Information Technology

Course Outcomes (COs	Course	Outcomes	(COs
----------------------	--------	-----------------	------

BE (Department of Information Technology)-2019 Pattern **Semester-VII**

Course Code	Name of	Course Outcomes (COs)
course code	Subject/Course	Course Outcomes (COs)
414441	Information Stoarge and Retrival	 □ Understand the concept of Information retrieval and to apply clustering in information retrieval. □ Use an indexing approach for retrieval of text and multimedia data. □ Evaluate performance of information retrieval systems. □ Apply the concepts of multimedia and distributed information retrieval. □ Use appropriate tools in analyzing the web information. □ Simulate the working of a search engine and recommender system.
414442	Software Project Management	 □ Apply the practices and methods for successful Software Project Management □ Create Design and Evaluate Project □ Analyze Project Schedule and calculate Risk Management with help of tools. □ Demonstrate different tools used for Project Tracking, Monitoring & Control. □ Identify Staff Selection Process and the issues related to Staff Management. □ Discuss and use modern tools for Software Project Management.
414443	Deep Learning	 □ Understand the theoretical foundations, algorithms, and methodologies of Deep Learning. □ Apply the concepts of Convolution Neural Networks and use of popular CNN architectures. □ Compare Feed Forward Neural Network and Recurrent Neural Network and learn modeling the time dimension using RNN and LSTM. □ Elaborate unsupervised deep learning algorithms like Auto encoders. □ Explore Representation Learning and Transfer Learning techniques using variants of CNN architecture. □ Evaluate the performance of deep learning

	T	1 11 1 1 1 1 1
		algorithms and to provide solution for various real-world applications.
414444C	Elective-III Multimedia Technology	 □ Calculate computational complexity using asymptotic notations for various algorithms. □ Apply Divide & Conquer as well as Greedy approach to design algorithms. □ Understand and analyze optimization problems using dynamic programming. □ Illustrate different problems using Backtracking. □ Compare different methods of Branch and Bound strategy. □ Understand the concept of P, NP, NP-complete, NP-Hard problems.
414445B	Elective-IV Introduction to DevOps	 □ Understand the fundamental concepts of DevOps. □ Link the background of DevOps with other technologies. □ Comprehend the concept of continuous integration and continuous delivery. □ Compare various stages of continuous deployment and test strategies. □ Justify the importance of monitoring system and reliability engineering. □ Use the latest tools in DevOps.
414446	Lab Practice III	 □ Understand the concept of Information retrieval and to apply clustering in information. □ Use appropriate indexing approach for retrieval of text and multimedia data. Evaluate performance of information retrieval systems. □ Apply appropriate tools in analyzing the web information. □ Map the concepts of the subject on recent developments in the Information retrieval field. □ Understand the concept of Web searching in Information retrieval and to apply for an ecommerce website. □ Apply appropriate recommender system for a product.
414447	Lab Practice IV	 □ Learn and Use various Deep Learning tools and packages. □ Build and train a deep Neural Network models for use in various applications. □ Apply Deep Learning techniques like CNN, RNN Auto encoders to solve real word Problems. □ Evaluate the performance of the model build using Deep Learning.
414448	Project Stage-I	 □ To Identify and Finalize problem statement by surveying variety of domains and to Apply the knowledge for solving realistic problem. □ Analyze alternative approaches, apply and use most appropriate one for feasible solution.

	Perform requirement analysis and identify
	design methodologies.
	Write precise reports, technical documents in a
	nutshell and Participate effectively in multi-
	disciplinary and heterogeneous teams
	exhibiting team work.

Semester-VIII

	Name of		
Course Code	Subject/Course	Course Outcomes (COs)	
	Subject/ Course	Domonstrate the gave concepts of distributed	
414450	Distributed Systems	 □ Demonstrate the core concepts of distributed systems. □ Understand the concept of middleware of distributed systems. □ Understand Inter-process communication methods and analyze different coordination algorithms. □ Comprehend the importance of replication to achieve fault tolerance in distributed systems. □ Analyze the design and functioning of existing distributed file systems, distributed multimedia, and distributed web-based 	
		systems. Understand various Recent Trends in distributed systems.	
414451	Elective V : Social Computing	 □ Understand basics of Social Media Analytics. □ Correlate Network Measures for Social Media Data. □ Visualize mining in social media data. □ Discuss the Social Similarities. □ Interpret social media behavior. □ Apply Social Media Computations for Google+ 	
414452	Elective VI: Blockchain Technology	 □ Understand the concept of cryptography and decentralization. □ Acquire fundamental knowledge of blockchain with issues associated with it. □ Acquire knowledge of Ethereum blockchain platform. □ Understand hyper ledger fabric platform. □ Acquire the knowledge regarding working of tokenization. □ Describe the applications and risk involved. 	
414453	Startup and Entrepreneurship	 □ Understand key concepts and framework of innovation and start-up ecosystem. □ Gain knowledge of how to develop start up ecosystem, its key components. □ Influence and manage dynamics between start up ecosystem, its key components and increase the productivity of ecosystem. □ Understand the role of different stakeholders in ecosystem in building and supporting growth of start-ups. 	

	T	T =
		☐ Insight into global trend in start-up ecosystem
		and product development.
		☐ Map different start-up ecosystems and
		developing performance indicators.
		☐ Learn how to apply concept of client-server
		communication to develop any distributed
		application.
		☐ Understand the topic of communication and
		coordination in distributed computing system.
		And develop distributed application with
		CORBA and using Message Passing Interface
414454		(MPI). ☐ Design, build and test application programs on
	Lab Practice V	clock synchronization for distributed systems.
		☐ Analyze the design and functioning of different
		distributed algorithm and implement it.
		☐ Design, build, test simple web service and
		write any distributed application to consume
		the web service.
		☐ Learn how to apply principles of state-of-the-
		Art distributed systems in practical
		application.
	Lab Practice VI	☐ To implement small blockchain
		experimentations.
		☐ Identify Consensus mechanism for Blockchain
		Application.
414455		☐ Interpret the basic concepts in Blockchain
		technology and its applications.
		☐ Identify relative application where block chain
		technology can be effectively used and
		implemented.
414456	Project Stage-II	☐ Show evidence of independent investigation.
		☐ Critically analyze the results and their
		interpretation.
		☐ Report and present the original results in an orderly way and place the open questions in
		the right perspective.
		☐ Link techniques and results from literature as
		well as actual research and future research
		lines with the research and appreciate
		practical implications and constraints of the
		specialist subject.
	I .	