

Jayawant Shikshan Prasarak Mandal's JSPM Narhe Technical Cam Rajarshi Shahu School of Engineering and Research



Department of Computer Engineering			
Course Outcomes			
Course Name:-	Design and Analysis of Algorithms		
Course Code:-	Course Code:- 410241		
At the end of course, students will be able to-			
	Formulate the problem		
CO2:-	That yze the asymptotic performance of argoriums		
	Decide and apply algorithmic strategies to solve given problem		
	Find optimal solution by applying various methods		
CO5:-	Analyze and Apply Scheduling and Sorting Algorithms		
	Solve problems for manifector of distributed of concurrent environments		
Course Name:-	Machine Learning		
Course Code:			
At the end of course, stud			
	Identify the needs and challenges of machine learning for real time applications.		
	Apply various data pre-processing techniques to simplify and speed up machine learning algorithms		
	Select and apply appropriately supervised machine learning algorithms for real time applications Implement variants of multi-class classifier and measure its performance		
	Compare and contrast different clustering algorithms		
CO6:-			
Course Name:-	Blockchain Technology		
Course Code:-			
At the end of course, stud			
	Interpret the fundamentals and basic concepts in Blockchain		
	Compare the working of different blockchain platforms		
	Use Crypto wallet for cryptocurrency based transactions		
	Analyze the importance of blockchain in finding the solution to the real-world problems.		
	Illustrate the Ethereum public block chain platform		
CO6:-			
Course Name:-	Elective-III (Cyber Security And Digital Forensics)		
Course Code:-	410244C		
At the end of course, stud	ents will be able to-		
CO1:-	That ye threats in order to protect of detend it in cyclospace from cycli attacks		
	Build appropriate security solutions against cyber-attacks.		
	Underline the need of digital forensic and role of digital evidences.		
CO4:-			
CO5:-	Thirty 2c, variatic and process crime seemes		
CO6:-	Tuesday we memore to generate again a fraction and outpersing in a congular to be a		
Course Name:-	Elective-IV (Software Testing And Quality Assurance)		
Course Code:- At the end of course, stud			
	Describe fundamental concepts in software testing such as manual testing, automation testing and software quality		
CO3:-	Design and Develop project test plan, design test cases, test data, and conduct test operations Apply recent automation tool for various software testing for testing software		
CO4:-	ripply recent dutomation tool for various soleware testing for testing soleware		
CO5:-	ripply different approaches of quarty management, assurance, and quarty standard to software system		
CO6:-	ripply and analyze effectiveness software Quarty 1001s.		
	1. IPPS to the testing for emercial results framework		

Course Name:-	Laboratory Practice III	
Course Code:-	410246	
At the end of course, students will be able to-		
CO1:-	Apply preprocessing techniques on datasets.	
CO2:-	Implement and evaluate linear regression and random forest regression models.	
CO3:-	Apply and evaluate classification and clustering techniques.	
CO4:-	Analyze performance of an algorithm.	
CO5:-	Implement an algorithm that follows one of the following algorithm design strategies: divide and conquer, greedy,	
CO6:-	Interpret the basic concepts in Blockchain technology and its applications	
Course Name:-	Laboratory Practice IV	
Course Code:-	410247	
At the end of course, students will be able to-		
CO1:-	Apply android application development for solving real life problems	
	Design and develop system using various multimedia components.	
	Identify various vulnerabilities and demonstrate using various tools.	
CO4:-	Apply information retrieval tools for natural language processing	
CO5:-	Develop an application using open source GPU programming languages	
	Apply software testing tools to perform automated testing	
Course Name:-	Project Work Stage I	
Course Code:-	410248	
At the end of course, students will be able to-		
CO1:-	Solve real life problems by applying knowledge	
	Analyze alternative approaches, apply and use most appropriate one for feasible solution.	
	Write precise reports and technical documents in a nutshell	
CO4:-	Participate effectively in multi-disciplinary and heterogeneous teams exhibiting team work	
CO5:-	Inter-personal relationships, conflict management and leadership quality	
Course Name:-	Audit Course 7 – II: Entrepreneurship Development	
Course Code:-	410249	
At the end of course, students will be able to-		
CO1:-	Understand the legalities in product development	
CO2:-	Undertake the process of IPR, Trademarks, Copyright and patenting	
	Understand and apply functional plans	
	Manage Entrepreneurial Finance	
CO5:-	Inculcate managerial skill as an entrepreneur	

SEMESTER-II		
Course Name:-	High Performance Computing	
Course Code:-	410250	
At the end of course, students will be able to-		
CO1:-	Understand various Parallel Paradigm	
CO2:-	Design and Develop an efficient parallel algorithm to solve given problem	
CO3:-	Illustrate data communication operations on various parallel architecture	
CO4:-	Analyze and measure performance of modern parallel computing systems	
CO5:-	Apply CUDA architecture for parallel programming	
CO6:-	Analyze the performance of HPC applications	
Course Name:-	Deep Learning	
Course Code:-	410251	
At the end of course, students will be able to-		
CO1:-	Understand the basics of Deep Learning and apply the tools to implement deep learning applications.	
CO2:-	Evaluate the performance of deep learning models (e.g., with respect to the bias-variance trade- off, overfitting and	
CO3:-	To apply the technique of Convolution (CNN) and Recurrent Neural Network (RNN) for implementing Deep	
CO4:-	To implement and apply deep generative models	

CO5:-	Construct and apply on-policy reinforcement learning algorithms.	
CO6:-	To Understand Reinforcement Learning Process	
Course Name:-	Elective-V (Natural Language Processing)	
Course Code:-	410252 A	
At the end of course, students will be able to-		
CO1:-	Describe the fundamental concepts of NLP, challenges and issues in NLP.	
CO2:-	Analyze Natural languages morphologically, syntactical and semantically OR Describe the concepts of morphology,	
	Illustrate various language modelling techniques.	
	Integrate the NLP techniques for the information retrieval task.	
	Demonstrate the use of NLP tools and techniques for text-based processing of natural languages.	
	Develop real world NLP applications.	
Course Name:-	Elective-VI (Business Intelligence)	
Course Code:-		
At the end of course, stude		
	Differentiate the concepts of Decision Support System & Business Intelligence	
	Use Data Warehouse & Business Architecture to design a BI system	
	Build graphical reports	
	Apply different data preprocessing techniques on dataset	
	implement machine learning algorithms as per business needsi	
	Identify role of BI in marketing, logistics, and finance and telecommunication sector	
Course Name:-	Laboratory Practice V	
Course Code:-	410254	
At the end of course, stude	ents will be able to-	
CO1:-	Apply basic principles of elective subjects to problem solving and modeling.	
CO2:-	Use tools and techniques in the area of software development to build mini projects	
	Design and develop applications on subjects of their choice.	
	Generate and manage deployment, administration & security.	
Course Name:-	Laboratory Practice VI	
Course Code:-	410255	
At the end of course, stude	ents will be able to-	
CO1:-	Differentiate the concepts of Decision Support System & Business Intelligence	
	Use Data Warehouse & Business Architecture to design a BI system	
CO3:-	Build graphical reports	
CO4:-	Apply different data preprocessing techniques on dataset	
	implement machine learning algorithms as per business needsi	
CO6:-	Identify role of BI in marketing, logistics, and finance and telecommunication sector	
Course Name:-	Project Work Stage II	
Course Code:-		
At the end of course, stude		
CO1:-	Show evidence of independent investigation	
	Critically analyze the results and their interpretation	
	Report and present the original results in an orderly way and placing 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.	
	Appreciate practical implications and constraints of the specialist subject	
Course Name:-	Audit Course 8– IV: MOOC-learn New Skill	
Course Code:-		
At the end of course, students will be able to-		
CO1:-	To acquire additional knowledge and skill.	