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Dr. T.K. Nagaraj ME. (Civil Engg), Ph.D (Civil Engg) LMISTE, LMIGS, LMIRC LMISRMTT, LMIE Principal

Institute Accredited by National Assessment and Accreditation Council (NAAC), Bengaluru National Board of Accreditation (NBA), New Delhi. Accredited Programs: Information Technology, Electronics and Telecommunication Engineering, Electrical Engineering

DEPARTMENT OF COMPUTER ENGINEERING

Laboratory Work Plan [Laboratory Practice V]

AY 2023-24, Sem-II

Class & Div: *BE*(*A*)

Name of Faculty: Prof. Sonawane Vijay D.

SPPU Practical: 50

Credit: 01

Expt No	Unit No	СО	Planned Week	Brief Title of Expt	Required facility / eqpt / consumable are available	Batch	Actual Date of Performance	Assess Date	Student Activity (only 1)	Remarks
	I,VI	CO1,2	Jan 2 nd Week	Design and implement Parallel breadth First Search and Depth First Search based on existing algorithms using OpenMP. Use a Tree or an undirected graph for BFS and DFS.	Operating`1 System recommended:- 64-bit Open source Linux Programming Languages: Object Oriented Languages C++/JAVA/PY THON/R	A1	11/01/24	15/1/24		
1						A2	12/01/24	16/1/24		
						А3	12/01/24	17/1/24		
	I, II		Jan 3 rd Week	Linear regression by using Deep Neural network: Implement Boston housing price prediction problem by Linear regression using Deep Neural network. Use Boston House price Prediction dataset.		A1	18/01/24	22/1/24		
2		CO4				A2	19/01/24	23/1/24		
						А3	19/01/24	24/1/24		
	1, 11	CO1,2	Feb 1 st Week	Write a program to implement Parallel Bubble Sort and Merge sort using OpenMP. Use existing algorithms and measure the performance of sequential and parallel algorithms.		A1	25/01/25	29/1/24		
3						A2	30/01/23	02/2/24		
						А3	31/01/24	02/2/24		



Vision: "To Satisfy the aspirations of youth force, who want to lead the nation towards prosperity through technoeconomic development"

Mission: "To provide, nurture and maintain an environment of high academic excellence, research and entrepreneurship For all aspiring Students, which will prepare them to face global challenges maintaining high ethical and moral Standards"



JAYAWANT SHIKSHAN PRASARAK MANDAL's

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				Classification using Deep neural network (Any One from the following) 1. Multiclass classification using Deep Neural Networks: Example: Use the	_	A1	01/02/24	05/2/24	
						A2	06/02/24	09/2/24	
4	III,IV	CO4	Feb 2nd Week	OCR letter recognition dataset https://archive.ics.uci.edu/ml/datasets/letter+recognition 2. Binary classify- cation using Deep Neural Networks Example: Classify movie reviews into positive" reviews and "negative" revie-ws, just based on the text content of the reviews. Use IMDB dataset	Programming tools recommended: Front End: Java/Perl/PHP/P ython/Ruby/.net,	А3	09/02/24	14/2/24	
5			Feb 3 rd Week	Implement Min, Max, Sum and Average operations using Parallel Reduction	Backend: MongoDB/MYS QL/Oracle, Database Connectivity: ODBC/JDBC	A1	08/02/04	12/2/24	
	III	CO2				A2	13/02/24	16/2/24	
						А3	16/02/24	23/2/24	
				Convolutional neural network (CNN) (Any One from the following)		A1	15/02/24	26/2/24	
6	III,IV	CO5	Feb 4 th Week	 ☐ Use any dataset of plant disease and design a plant disease detection system using CNN. ☐ Use MNIST Fashion Dataset and create a classifier to classify fashion clothing into categories. 		A2	20/02/24	23/2/24	
	III,IV					A3	28/02/24	01/3/24	



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Prof. Dr. T. J. Sawant B.E. (Elec.) PGDM, Ph.D Founder Secretary

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7	V,VI	CO3	Feb 5 th Week	Implement HPC application for AI/ML domain.	A1	29/02/24	4/3/24	
					A2	27/02/24	6/3/24	
					А3	06/03/24	13/3/24	
8	I-VI	CO6	March 2 nd Week	Mini Project: Human Face Recognition	A1	07/03/24	11/3/24	
				Mini Project: Gender and Age Detection: predict if a person is a male or female and also their age	A2	05/03/24	12/3/24	
				Mini Project: Colorizing Old B&W Images: color old black and white images to colorful images	А3	15/03/15	27/3/24	
9	V,VI	CO6	March 3 rd Week	Mini Project: Evaluate performance enhancement of parallel Quicksort Algorithm using MPI	A1	14/03/24	18/3/24	
				Mini Project: Implement Huffman Encoding on GPU	A2	15/03/24	19/3/24	
				Mini Project: Implement Parallelization of Database Query optimization	А3	29/03/24	3/4/24	

Sign of Course Coordinator (Faculty)

Sign of Module Coordinator

Sign of HOD

Imp Instructions:

- 1. All the experiments should be assessed within 15 days from the date of performance of concerned expt.
- 2. Concerned practical teacher should record all the experiments of the subject and upload on Moodle.

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