

Indore Institute of Science and Technology

Approved by AICTE, New Delhi & Affiliated to RGPV, Bhopal

Event Report

Academic Year - 2022-23

Session: July-Dec 2022

Name of Event: Training

Date of Event: 12/07/2022

Topic: "Application and Visualization of Data Structure".

Organizing Dept.: Information Technology

Event Coordinator. Mr. Lands Voltage

Name of Expert/Guest 1: Mr. Pankaj Wadhwani

Institute / Company: IIST, Indore

Designation: Trainer/Instructor

Department: AIML

Address: HST INDORE

Contact No.:7415559991

Email Id: pankaj wadhwanna indoremstitute.com

Event Expenses details:-

Details of Participants:

No. of	No	o. of	No	o. of	Department	No. of	1250 N
Institutes		dents cipated	100 75	ulties cipated	CSE/IT/EC/ME/CM/ESH	Industry Representative	Remark
Participated	IIST	Other	HST	Other		representative	
	62				CSE, IT	NA	

^{*}Please enclose a detailed list.

Also enclosed following details:

- 1. Approval Letter
- 2. Notice
- 3. Brochure
- 4. Detailed summary of events.
- 5. Photographs

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HOD AIML

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Principal



Indore Institute of Science and Technology

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Date: - 4/07/2022

Approval Letter

To,

The Principal,

IIST, Indore

Reference: Requesting approval for conducting Training Application and Visualization of Data Structure.

Respected Sir,

With reference to the above, the Department of AIML is organizing training on "Application and Visualization of Data Structure". From 07/07/2022 by Mr. Pankaj Wadhwani.

Thanks

Coordinator

Mr.Jitendra Kulaste

PRINCIPAL.



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Date: - 05 07 2022

Notice

All II Year Students of AIML are hereby informed that the department of AIML has organized training "Application and Visualization of Data Structure". Speaker - Mr. Pankaj Wadhwam

All students are requested to take benefit of the same.

Coordinator

Mr. Jitendra Kualste

Date: 07/07/2022

Venue: - IIST Auditorium

Time:-1:00 PM

Principal

HOD AIML



Indore Institute of Science and Technology

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Department of AIML

Title

"Application and Visualization of Data Structure".

Date of Event

18/07/2022

Speaker Expert

Mr. Pankaj Wadhwani

Summary:

We have total number of 62 students and all of the got benefitted with this one week training. Feedback: 1. This Work is really good and very much useful to develop and teach data Structure and other technologies.



2. We are able to Share knowledge among ourselves.

3. We need this type of real time training.

Eminent resource persons Mr. Pankaj Wadhwani sir from real time application Development Company from Indore.

We received good feedback and response for porqueting this training in AIML.

Coordinator Mr.Jitendra Kulaste

HOD AIML



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Inside / Outside Resource person detail or profile



Resource Person	Designation Company	Address
Mr. Pankaj Wadhwani	Director and Co- founder of "Programming World"	182, Greater Vaishali Nagar, Indore, Madhya Pradesh 452009



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Training: - Application Visualization of Data Structure and

COURSE OBJECTIVES:

- 1 To impart the basic concepts of data structures and algorithms
- 2 To understand concepts about searching and sorting techniques
- 3 To Understand basic concepts about stacks, queues, lists, trees and graphs
- 4 To understanding about writing algorithms and step by step approach in solving problems with the





COURSE OUTCOMES:

- 1 Ability to analyze algorithms and algorithm correctness.
- 2 Ability to summarize searching and sorting techniques
- 3 Ability to describe stack, queue and linked list operation.
- 4 Ability to have knowledge of tree and graphs concepts.



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Contents: - Application and Visualization of Data Structure

In this training, you will learn about the most popular topics corresponding to data structures and algorithms through live animation. The data structure is the key component of Computer Science and is used in the areas of artificial intelligence, operating systems, graphics, etc. This course aims to turn complexity into simplicity via illustrations and live animation. Visualization of data structures is provided for the most popular topics, such as queue, stack, linked list, recursion, and recursive function, graphs, trees, heap data structure, sorting algorithms, searching algorithms, hash function, and hash table. This course is provided for anyone who is interested in data structure and algorithms. All sorting and searching algorithms are covered by the implementation. The main programming language is based on Python However, very basic knowledge about programming skills is required, and this knowledge is only required for sorting and searching algorithms in which they are discussed with Python programming language. All lectures are discussed from scratch, and don't be afraid if you think your knowledge is not enough for this course. In fact, both implementation and illustrations are discussed in a simple manner. I hope you enjoy this course.

The most popular topics that are covered are:

1. Arrays

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- 2. Queue
- 3. Stack
- 4 Linked List
- 5. Recursion
- 6. Graph Theory
- 7. Spanning Trees
- 8. Minimum Spanning Trees (Prim's and Kruskal's)
- Graph Traversal (BFS and DFS)
- 10. Sorting Algorithms
- 11 Searching Algorithms
- 12 Heap Data Structure
- 13. Introduction to Trees
- 14. Binary Search Trees (BST)
- 15. Tree Traversal (Preorder, Inorder, Postorder)
- 16. The hash function and Hash Table



Indore Institute of Science & Technology

Department of AIML

TRAINING

ON

APPLICATION AND VISUALIZATION OF DATA

STRUCTURE.

TIME:- 11:00 AM

VENUE:- AUDI-1

DATE:- 18/07/2022

FACULTY COORDINATOR MR. JITENDRA KULSTE HOD AIM

MEMORY
MANAGE DATA
MEMORY
MEMO HASH TABLE DATABASE PERFORM TYPES COMPUTER

MR. PANKAJ WADHWANI

BY:

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