



ADITYA COLLEGE OF ENGINEERING

Approved by AICTE, Permanently Affiliated to JNTUK, Accredited by NBA & NAAC
Recognized by UGC under Sections 2(f) and 12(B) of UGC Act, 1956
Aditya Nagar, ADB Road, Surampalem - 533 437, E.G.Dist., Ph: 99631 76662.

Teaching Methods Summery

S.No	Name of the Teaching Method	Experiential learning	Participative learning	Problem solving methodologies
1	Chalk and Talk		Yes	Yes
2	Power Point Presentation		Yes	
3	Student Seminars		Yes	
4	Videos Demonstration	Yes		
5	Practical Demonstration	Yes		
6	Quiz		Yes	
7	Tutorial/Think Pair Share		Yes	Yes
8	Case Study	Yes		Yes
9	Assignment			Yes
10	Inquiry-Based Learning		Yes	
11	Flipped Classroom		Yes	
12	Brain Storming		Yes	
13	Workshops	Yes	Yes	
14	Guest lectures		Yes	
15	Project-based learning	Yes	Yes	Yes
16	Industrial Visit	Yes	Yes	
17	Skill Development Programme	Yes	Yes	
18	MOOCs	Yes		
19	Field Visits	Yes		
20	Internship	Yes	Yes	Yes
21	Role play	Yes	Yes	
22	Virtual laboratory	Yes		
23	Simulation-based learning	Yes		
24	Prototype model	Yes		



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EXPERIENTIAL LEARNING

(Sample Documents)

S. No	Teaching Methods
1	Videos Demonstration
2	Practical Demonstration
3	Internships
4	Industrial Visit
5	Field Visit
6	Virtual laboratory
7	Simulation-based learning



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PARTICIPATIVE LEARNING

(Sample Documents)

S. No	Teaching Methods
1	Student Seminars / Guest Lectures
2	Group Discussions
3	Role-plays
4	Workshops
5	MOOCs / NPTEL
6	Skill Development Programme



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People from Industry / College who delivered guest lecture(s) for computer science and Engineering

Academic Year: 2022-23

S. No	Name of the Program	Course	Resource Person	Date	No: of Participants	Relevance to POs and PSOs
1	Guest Lecture on Reinforcement Learning	Machine Learning	Dr. M. Sumender Roy, Professor, Lenora College of Engineering	06-02-2023	143	PO1,PO2,P O3,PO4, PSO1, PSO2
2	Guest Lecture on Implementation of CI/CD	DevOps	Dr. A Radha Krishna, Professor, Department of CSE, Pragathi Engineering College	17-4-2023	128	PO1,PO2,P O3,PO4, PO5, PSO1, PSO2
3	Guest Lecture on No Sql Database	Database Management System	Dr. Meera Sharif, Professor and HOD, Department of CSE, GIET, Rajahmundry	18-05-2023	146	PO1,PO2,P O3,PO4, PSO1, PSO2


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People from Industry / College who delivered seminar(s) for computer science and Engineering

Academic Year: 2022-23

S. No	Name of the Program	Course	Resource Person	Date	No: of Participants	Relevance to Pos and PSOs
1	Seminar on Survival Mantra for Netizens	Cyber Security and Forensics	Dr. Y. Venkateswarulu, Professor and HOD, Department of CSe, B V C Engineering College, Rajahmundry.	13-11-2022	128	PO1,PO2, PO3,PO4, PO5, PSO1, PSO2
2	Seminar on Copy Constructor and Friend Functions	Object Oriented Programming through C++	Dr. Srija Madhu, Professor, GIET(A) Rajahmundry	18-11-2022	146	PO1,PO2, PO3,PO4, PSO1, PSO2
3	Seminar on Operating systems Protection and Security Buffer Flow attacks	Operating System	Dr. D V Manjula, Professor and HOD, Department of CSE, Pragathi Engineering College	18-05-2023	146	PO1,PO2, PO3,PO4, PO5, PSO1, PSO2


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Concept of Role Play : Quick Sort Algorithm Functionality

Team Size : 9

Process of Quick Sort:

Sorting is a way of arranging items in a systematic manner. Quicksort is the widely used sorting algorithm that makes $n \log n$ comparisons in average case for sorting an array of n elements. It is a faster and highly efficient sorting algorithm. This algorithm follows the divide and conquer approach. Divide and conquer is a technique of breaking down the algorithms into subproblems, then solving the subproblems, and combining the results back together to solve the original problem.

Divide: In Divide, first pick a pivot element. After that, partition or rearrange the array into two sub-arrays such that each element in the left sub-array is less than or equal to the pivot element and each element in the right sub-array is larger than the pivot element.

Conquer: Recursively, sort two subarrays with Quicksort.

Combine: Combine the already sorted array.

Choosing the pivot

Picking a good pivot is necessary for the fast implementation of quicksort. However, it is typical to determine a good pivot. Some of the ways of choosing a pivot are as follows.

Pivot can be random, i.e. select the random pivot from the given array.

Pivot can either be the rightmost element or the leftmost element of the given array.

Select median as the pivot element.

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Department of CSE

Subjects Enrolled For NPTEL

S. No	Emp ID	Name of the Staff	Course Registered	No: of Weeks
1	2200	Dr. G. S. N. Murthy	Data Science for Engineers	8 Weeks
2	2200	Dr. G. S. N. Murthy	Block chain and its Applications	12 Weeks
3	1738	Mr. T. Veeraju	Data Science for Engineers	8 Weeks
4	5468	Dr. B. V. Rama Krishna	Data Science for Engineers	8 weeks
5	5468	Dr. B. V. Rama Krishna	Block Chain and its Applications	12 weeks
6	5395	Mr. K. N. V. Srinivas	Fundamental Algorithms: Design and Analysis	4 Weeks
7	5394	Mrs. Khasimbee Shaik	Introduction to Machine Learning	8 weeks
8	5363	Mrs.Ch D V P Kumari	Introduction to Machine Learning	8 Weeks



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PROBLEM-SOLVING METHODOLOGIES

(Sample Documents)

S. No	Teaching Methods
1	Assignments
2	Project-based learning
3	Tutorial/Think Pair Share



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Department of Computer Science and Engineering


Tutorials

TEACHING METHOD : Tutorial
PROGRAM : B.TECH (III Year / I Semester) R20
COURSE CODE : R2031051
NAME OF THE COURSE : Computer Networks

S. No	Question	Knowledge Levels	Course Outcomes	Program OutComes
1	Explain about the ISO Reference Model in detail	K1	CO1	PO1, PO2, PO3
2	Write about the Distance Vector Routing Algorithm	K2	CO2	PO1, PO3

Roll No : 21MH1A05A0
Student Name : Kamuju Rohini Kumar
Year / Sem / Sec : III/II/I


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