Alva's Institute of Engineering & Technology

Shobhavana Campus, Mijar, Moodbidri, D.K – 574225 Phone: 08258-262725, Fax: 08258-262726

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
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"Pre-placement Training Report"

Organized by

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Date: 26th Oct 2023 to 25th Nov 2023

CSE Second 3rd Year Students

Pre-placement Training Report

Resource Persons

- **Dr.**Prasanna Kumar H R,PESITM, Shivamogga
- Dr.Roshan Fernandes, NMAMIT, Nitte
- Dr.Mohideen Badhusha S,
- Mr.Mahesh Kini M, Mr.Venkatesh,
- Mr.Lohith B and Kaushik K S, Novigo Solutions

Coordinator
Dr. Bramha Prakash H P

2023-2024
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Pre-placement Training Report

Objectives of the Training

• To strengthen the students on fundamental courses such as Data Structures, Algorithms, Operating Systems, Computer Networks and Software Engineering concepts. • To prepare students on industry ready campus placements topics such as learning coding skills

• To solve the Quantitative, Logical reasoning and Verbal Reasoning problems through Aptitude classes

• To prepare the students face the interview through Soft Skill Training

Training Topics:

• Data Structures and Algorithms

• Database Management Systems

• Operating Systems

• Software Engineering

• Advanced Java Programming

• Applications of Python Programming

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4 Weeks Pre-placement Training

Date: 26th Oct 2023 to 25th Nov 2023

Department of Computer Science and Engineering of Alva's Institute of Engineering and Technology Moodbidri has organized a 4 Weeks Student Development Program on **"Pre-placement Training"** for the 3rd Year Students of Computer Science and Engineering Department AIET from 26th Oct 2023 to 25th Nov 2023. The training was coordinated by Dr Bramha Prakash H P , Associate Professor, Dept of CSE,

AIET. On the 1ˢᵗ day, the trainer Dr.Mohideen Badhusha S started with Python Programming. Welcome! Are you completely new to programming? If *not* then we presume you will be looking for information about why and how to get started with Python. Fortunately an experienced programmer in any programming language (whatever it may be) can pick up Python very quickly. It's also easy for beginners to use and learn.

On the 2ⁿᵈ day, the trainer, - Dr.Mohideen Badhusha S started with Python Programming Examples. If you want to help to develop Python, take a look at the developer area for further information. Please note that you don't have to be an

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expert programmer to help. The documentation is just as important as the compiler, and still needs plenty of work!

On the 3rd day , the trainer, - Dr.Mohideen Badhusha S started with Python Programming Examples. Essential Python for Machine Learning is a comprehensive guide that equips readers with the fundamental Python programming skills necessary to kickstart their journey into the exciting world of machine learning. This book covers the essential topics and techniques required to understand and apply Python in the field of machine learning.

On the 4th day , the trainer, Dr.Prasanna Kumar H R-PESITM, Shimoga started with Algorithms Concepts. Algorithms are step-by-step procedures designed to solve specific problems and perform tasks efficiently in the realm of computer science and mathematics. These powerful sets of instructions form the backbone of modern technology and govern everything from web searches to artificial intelligence
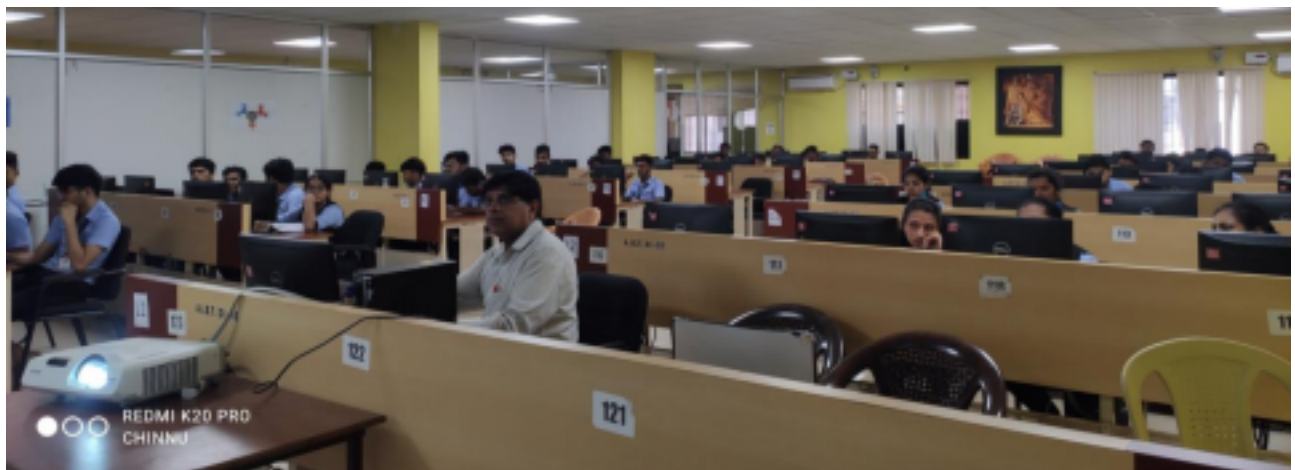
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On the 5th day , the trainer, -. Mr.Mahesh Kini M started with Algorithms Examples. Algorithms are step-by-step procedures designed to solve specific problems and perform tasks efficiently in the realm of computer science and mathematics. These powerful sets of instructions form the backbone of modern technology and govern everything from web searches to artificial intelligence

On the 6th day , the trainer, -. Mr.Mahesh Kini M started with Algorithms Examples. Algorithms are step-by-step procedures designed to solve specific problems and perform tasks efficiently in the realm of computer science and mathematics. These powerful sets of instructions form the backbone of modern technology and govern everything from web searches to artificial intelligence

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On the 7th day, the trainer, - Dr.Mohideen Badhusha S started with Java Programming Java programs are frequently asked in the interview. These programs can be asked from control statements, array, string, oops etc. Java basic programs like fibonacci series, prime numbers, factorial numbers and palindrome numbers are frequently asked in the interviews and exams. All these programs are given with the maximum examples and output.

On the 8th day , the trainer, - Mr.Venkatesh started with Data Structures & Applications - Data is one of the most powerful tools available to any business or organization that wants to not only survive but rise to the top in today's competitive and challenging world. The more information available, the more options and better solutions to problems and obstacles open up.

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On the 9th day , the trainer, - Mr.Lohith B and Kaushik K S, Novigo, Solutions,Mangalore started training on the topic "RPA with UiPath". Going from simple, back-office task automation to scaled automation to handle time-consuming business processes can be a challenge. The IBM Robotic Process Automation offering helps you automate more businesses and IT processes at scale with the ease and speed of traditional RPA. Software robots, or bots, can act on AI insights to complete tasks with no lag time and enable you to achieve digital transformation.

On the 10th day , the trainer, - Mr.Lohith B and Kaushik K S, Novigo started with RPA with UiPath. Going from simple, back-office task automation to scaled

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automation to handle time-consuming business processes can be a challenge. The IBM Robotic Process Automation offering helps you automate more businesses and IT processes at scale with the ease and speed of traditional RPA. Software robots, or bots, can act on AI insights to complete tasks with no lag time and enable you to achieve digital transformation.

On the 11th day , the trainer, Dr.Prasanna Kumar H R-Shimoga started with Algorithms Examples. Algorithms are step-by-step procedures designed to solve specific problems and perform tasks efficiently in the realm of computer science and mathematics. These powerful sets of instructions form the backbone of modern technology and govern everything from web searches to artificial intelligence. Algorithm analysis is the process of evaluating the performance of an algorithm, usually in terms of its time and space complexity. There are several ways to analyze the performance of an algorithm, including asymptotic analysis, which analyzes the behavior of an algorithm as the size of the input grows indefinitely.

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On the 12th day , the trainer, -.Prasanna Kumar H R-Shimoga started with Algorithms Examples. Algorithms are step-by-step procedures designed to solve specific problems and perform tasks efficiently in the realm of computer science and mathematics. These powerful sets of instructions form the backbone of modern technology and govern everything from web searches to artificial intelligence. Algorithm analysis is the process of evaluating the performance of an algorithm, usually in terms of its time and space complexity. There are several ways to analyze the performance of an algorithm, including asymptotic analysis, which analyzes the behavior of an algorithm as the size of the input grows indefinitely.

On the 13th day , the trainer, - Mr.Venkatesh started with Data Structures & Applications - Data is one of the most powerful tools available to any business or organization that wants to not only survive but rise to the top in today's competitive and challenging world. The more information available, the more options and better solutions to problems and obstacles open up. The data structure name indicates itself that organizing the data in memory. There are many ways of organizing the data in the memory as we have already seen one of the data structures, i.e., array in C language. Array is a collection of memory elements in which data is stored

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sequentially, i.e., one after another. In other words, we can say that array stores the elements in a continuous manner. This organization of data is done with the help of an array of data structures. There are also other ways to organize the data in memory. Let's see the different types of data structures.

On the 14th day , the trainer, - Dr.Mohideen Badhusha S started with Java Programming Java programs are frequently asked in the interview. These programs can be asked from control statements, array, string, oops etc. Java basic programs like fibonacci series, prime numbers, factorial numbers and palindrome numbers are frequently asked in the interviews and exams. All these programs are given with the maximum examples and output. n computer science, a data structure is a format to organize, manage and store data in a way that allows efficient access and modification. More precisely, a data structure is a collection of data values, the relationships among them, and the functions or operations that can be applied to that data.

On the 15th day , the trainer, - Mr.Venkatesh started with Data Structures & Applications - Data is one of the most powerful tools available to any business or organization that wants to not only survive but rise to the top in today's competitive and challenging world. The more information available, the more options and better

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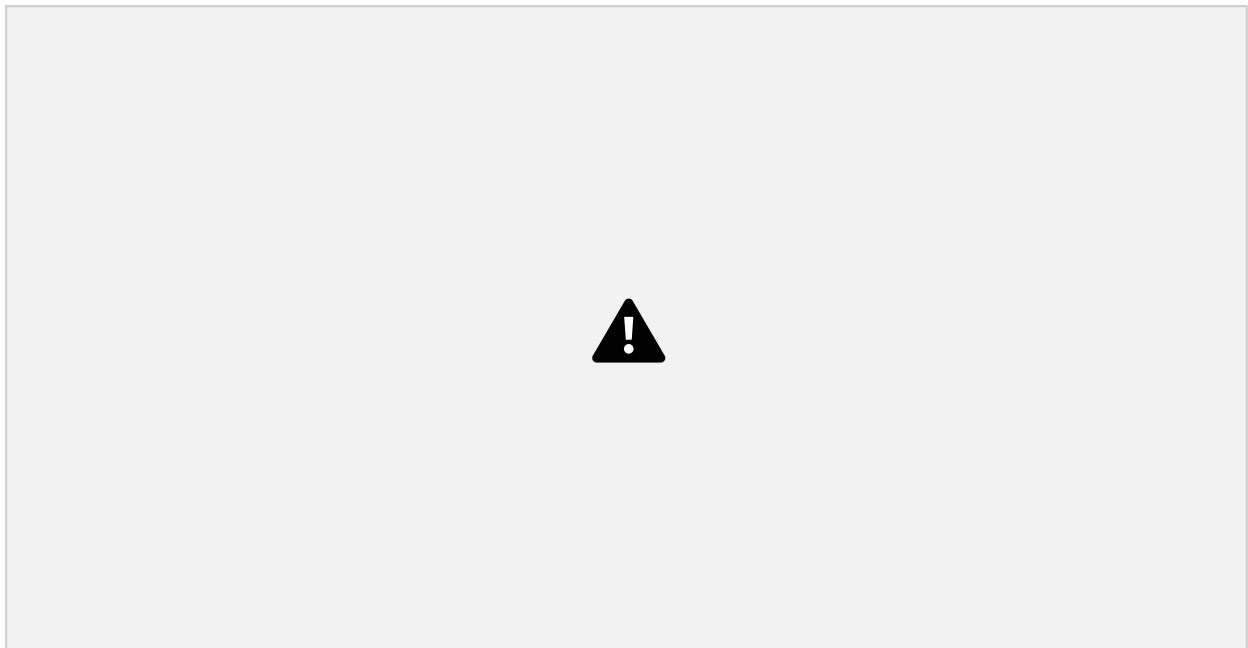(Accredited by NBA, New Delhi 2019-2022 and Accredited by NAAC with A+)

solutions to problems and obstacles open up. The data structure name indicates itself that organizing the data in memory. There are many ways of organizing the data in the memory as we have already seen one of the data structures, i.e., array in C language. Array is a collection of memory elements in which data is stored sequentially, i.e., one after another. In other words, we can say that array stores the elements in a continuous manner. This organization of data is done with the help of an array of data structures. There are also other ways to organize the data in memory. Let's see the different types of data structures. Different data structures exist because some of them are better suited for certain kind of operations. You will probably be able to tackle most programming tasks with built-in data structures, but for some very specific tasks a non-primitive data structure may come in handy.

On the 16th day , the trainer, - Dr.Roshan Fernandes, Nitte started with Data Structures & Applications - Data is one of the most powerful tools available to any business or organization that wants to not only survive but rise to the top in today's competitive and challenging world. The more information available, the more options and better solutions to problems and obstacles open up. In some programming languages, the user can only store values of the same type in one array and the length of the array has to be defined at the moment of its creation and can't be modified afterwards.

On the 17th day , the trainer, Dr. Prasanna Kumar H R-Shimoga started with Algorithms Examples. Algorithms are step-by-step procedures designed to solve specific problems and perform tasks efficiently in the realm of computer science and mathematics. These powerful sets of instructions form the backbone of modern technology and govern everything from web searches to artificial intelligence. Algorithm analysis is the process of evaluating the performance of an algorithm, usually in terms of its time and space complexity. There are several ways to analyze the performance of an algorithm, including asymptotic analysis, which analyzes the behavior of an algorithm as the size of the input grows indefinitely. Algorithm is a fancy, sometimes intimidating, and often misunderstood word. It sounds like

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something really hard and complex, but actually it's nothing more than a set of steps that have to be taken in order to achieve a certain goal.

On the 18th day , the trainer, - Dr.Roshan Fernandes, Nitte started with Data Structures & Applications - Data is one of the most powerful tools available to any business or organization that wants to not only survive but rise to the top in today's competitive and challenging world. The more information available, the more options and better solutions to problems and obstacles open up. In some programming languages, the user can only store values of the same type in one array and the length of the array has to be defined at the moment of its creation and can't be modified afterwards. **Linear data structure:** Data structure in which data elements are arranged sequentially or linearly, where each element is attached to its previous and next

adjacent elements, is called a linear data structure. *Examples of linear data*

structures are array, stack, queue, linked list, etc. **Static data structure:** Static data

structure has a fixed memory size. It is easier to access the elements in a static data

structure. *An example of this data structure is an array.*

On the 19th day , the trainer, - Dr.Roshan Fernandes, Nittestarted with Data

Structures & Applications - Data is one of the most powerful tools available to any

business or

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organization that wants to not only survive but rise to the top in today's competitive and challenging world. The more information available, the more options and better solutions to problems and obstacles open up. In some programming languages, the user can only store values of the same type in one array and the length of the array has to be defined at the moment of its creation and can't be modified afterwards. Non linear data structure: Data structures where data elements are not placed sequentially or linearly are called non-linear data structures. In a non-linear data structure, we can't traverse all the elements in a single run only. *Examples of non-linear data structures*

are trees and graphs.

On the 20th day , the trainer, - Dr.Roshan Fernandes, Nittestarted with Data Structures & Applications - Data is one of the most powerful tools available to any business or organization that wants to not only survive but rise to the top in today's competitive and challenging world. The more information available, the more options and better solutions to problems and obstacles open up. In some programming languages, the user can only store values of the same type in one array and the length of the array has to be defined at the moment of its creation and can't be modified afterwards. Data can be anything that can be saved. It could be primitive types like string, boolean, integer, or float. Or non-primitive types like arrays, linked list trees, stacks, and queues.

On the 21st day , the trainer, -. Mr.Mahesh Kini M started with Algorithms Examples. Algorithms are step-by-step procedures designed to solve specific problems and perform tasks efficiently in the realm of computer science and mathematics. These powerful sets of instructions form the backbone of modern

technology and govern everything from web searches to artificial intelligence. The examples above are the common ones you can find in almost all available programming languages. Each programming language has its own way of implementing those data structures.

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On the 22th day , the trainer, - Mr.Lohith B and Kaushik K S, Novigo started with RPA with UiPath. Going from simple, back-office task automation to scaled automation to handle time-consuming business processes can be a challenge. The IBM Robotic Process Automation offering helps you automate more businesses and IT processes at scale with the ease and speed of traditional RPA. Software robots, or bots, can act on AI insights to complete tasks with no lag time and enable you to achieve digital transformation. Designed for the complex enterprise, Worksoft employs a closed-loop approach to intelligent automation, creating unprecedented value from one cohesive automation platform for both pre- and post-production environments. With Worksoft, automation assets are no longer siloed between disparate systems and solutions. Instead, automation can be created, shared, and repurposed to understand, optimize, and run your business processes—all from a single platform.

On the 23th day , the trainer, - Mr.Venkatesh started with Data Structures & Applications - Data is one of the most powerful tools available to any business or organization that wants to not only survive but rise to the top in today's competitive and challenging world. The more information available, the more options and better solutions to problems and obstacles open up. The data structure name indicates itself that organizing the data in memory. There are many ways of organizing the data in the memory as we have already seen one of the data structures

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On the 24th day , the trainer, - Dr.Roshan Fernandes, Nittestarted with Data Structures & Applications - Data is one of the most powerful tools available to any business or organization that wants to not only survive but rise to the top in today's competitive and challenging world. The more information available, the more options and better solutions to problems and obstacles open up. You may have heard that DSA is primarily used in the field of computer science. Although DSA is most commonly used in the computing field, its application is not restricted to it. The concept of DSA can also be found in everyday life. Here we'll address the common concept of DSA that we use in our day-to-day lives.

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On the 25th day , the trainer, - Mr.Lohith B and Kaushik K S, Novigo started with RPA with UiPath. Going from simple, back-office task automation to scaled automation to handle time-consuming business processes can be a challenge. The IBM Robotic Process Automation offering helps you automate more businesses and IT processes at scale with the ease and speed of traditional RPA. Software robots, or bots, can act on AI insights to complete tasks with no lag time and enable you to achieve digital transformation The *UiPath Platform* especially, has made it very easy to get started with building front end automation and today, it repeatedly ranks Number One amongst a host of RPA technology software and platform that have hit the market!

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On the 26th day , the trainer, - Mr.Lohith B and Kaushik K S, Novigo started with RPA with UiPath. Going from simple, back-office task automation to scaled automation to handle time-consuming business processes can be a challenge. The IBM Robotic Process Automation offering helps you automate more businesses and IT processes at scale with the ease and speed of traditional RPA. Software robots, or bots, can act on AI insights to complete tasks with no lag time and enable you to achieve digital transformation

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Outcome:

About 117 CSE students were trained by Dr.Mohideen Badhusha S, Dr. Prasanna Kumar H R, Mr.Mahesh Kini M, Mr.Venkatesh, Mr.Lohith B and Kaushik K S, Novigo, Dr.Roshan Fernandes, Nitte in various concepts of Computer Science & Engineering such as Data Structures & Algorithms, Database Management Systems, Operating Systems, Software Engineering, Computer Networks, Advanced Java Programming, Python Application Programming and RPA with UiPath. Several Applications were illustrated during the training. All the students shared their feedback and they were able to solve various similar problems. About 10 faculty members of CSE department were also attended the training program shift wise and monitored all the sessions and provided the feedback.

Coordinator HoD CSE

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