

# ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

A Unit of Alva's Education Foundation (R)

(Affiliated to Visvesvaraya Technological University, Belagavi.

Approved by AICTE, New Delhi & Recognized by Government of Karnataka)  
Shobhavana Campus, Mijar, Moodbidri- 574 225, Mangalore, D.K., Karnataka State.

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## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### Pre-Placement Training Schedule – 3<sup>rd</sup> Year

S. N	FROM DATE	TO DATE	TIME	EVENT	RESOURCE PERSON	ORGANIZATION
1	27-11-2023	06-12-2023	9:00AM-4:30PM	C Programming and Data Structure	Mr.Vishal Vanaki	Q-Spiders-Bangalore.
2	14-01-2024	15-01-2024	9:00AM-5:00PM	Algorithms Design and Analysis	Dr.Prasanna Kumar H R	PESITM SHIVMOGA.
	30-01-2024	31-01-2024				
3	14-02-2024	17-02-2024	9:00AM-5:00PM	Advance Data Structures and Algorithm	Dr.Roshan Fernandes	NMAM Institute Of Technology Udupi.
4	29-04-2024	02-05-2024	9:00AM-5:00PM	Aptitude Training	10 seconds Team	10 seconds
5	20-05-2024	25-05-2024	9:00AM-5:00PM	Advance Java Traning	Ms.Deeksha M	Q-Spiders-Bangalore.
6	26-05-2024	31-05-2024	9:00AM-5:00PM	Training on JDBC	Ms.Deeksha M	Q-Spiders-Bangalore.

  
Training Coordinator

  
H.O.D.  
Dept. Of Information Science & Engineering  
Alva's Institute of Engg. & Technology  
Mijar, MOODBIDRI - 574 225



**Event: C and Data Structures Training**

**Resource Person: Vishal Vanaki, QSpiders Bangalore.**

**Date: 27/11/2023 - 06/12/2023**

**Time: 9:00AM to 5:00PM**

**Venue: Civil Lab, Main Block, AIET.**

A hands-on C and Data Structures training programme has been organized by Training and Placement cell for Third year ISE students for placement by Vishal Vanaki on 14/08/2023 - 06/12/2023 in AIET campus.



The C programming language, conceived by Dennis Ritchie in the 1970s at Bell Laboratories, holds a central place in the history of programming. Its versatile data types, including int, float, double, and user-defined types through structures and unions, offer flexibility in handling diverse data. C programs adhere to a structured format, incorporating documentation, header files, and organized main() functions for clarity. Beyond its historical impact, C's continued relevance in varied applications underscores its versatility. As an ideal foundation for training programs, C imparts fundamental principles and fosters adaptability essential for success in software development.

In this brief exploration of C programming, we embarked on a unique challenge by creating a program without the 'main' word, demonstrating the language's flexibility. The significance of function prototypes was highlighted, emphasizing their role in systematic function declaration. Efficient management of input and output statements, utilizing 'stdio.h' and key functions like 'scanf' and 'printf,' was discussed for improved program interactivity. The





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report also touched upon the diverse set of operators in C, emphasizing their importance in data manipulation and program control. These insights underscore the foundational role of C in software development, providing a succinct overview for learners and practitioners.

In a brief exploration of key features in C programming, we delved into the efficiency of bitwise operations through programs counting set and reset bits, showcasing the language's adeptness in binary data manipulation. The power-of-2 checker program demonstrated C's clever application of bitwise operations to efficiently determine if a number is a power of 2. Additionally, C's special operators, including bitwise, ternary, and sizeof, were introduced, providing concise tools for precise data manipulation, conditional expressions, and memory management. The fundamental role of control statements like if-else, switch, and loops in shaping program logic was emphasized, underscoring C's suitability for managing intricate control flow in a succinct manner. These features collectively highlight C's enduring efficiency, versatility, and aptitude for low-level operations in software development.

On the fourth day of the training program, we delved into diverse numerical concepts. The session commenced with the reversal of numbers, elucidating the algorithmic process of reversing digits within a given numerical value. Subsequently, Armstrong numbers were explored, emphasizing their unique property of being equal to the sum of their individual digits raised to the power of their count. The class then progressed to the intriguing topic of lucky numbers, followed by an in-depth examination of prime numbers and their significance. The day concluded with an exploration of the Fibonacci series, unraveling the fascinating pattern of each number being the sum of the two preceding ones. Overall, participants gained a comprehensive understanding of these mathematical concepts and their practical applications.

On the fifth day of the C programming course, the focus was on arrays and their diverse types, including one-dimensional and multi-dimensional arrays. The session began with a comprehensive exploration of array concepts, followed by practical exercises on writing programs. The participants engaged in crafting a program to search for a specific element in an array, gaining insights into array traversal and searching algorithms. Subsequently, attention shifted to the identification and counting of occurrences of odd numbers within an array, enhancing their proficiency in conditional statements and loops. The training then progressed to a more intricate concept, where participants learned to relate array elements on the left side by a factor of k times, emphasizing advanced array manipulation and indexing techniques. Furthermore, the day concluded with an introduction to sorting algorithms, particularly selection sort and bubble sort, providing participants with essential knowledge for efficient data arrangement in arrays. Overall, day 5 was a pivotal session, combining theoretical understanding with hands-on programming practice, solidifying the participants' grasp of arrays and essential sorting techniques in C programming.

On the sixth day of the C programming course, the focus was on advanced topics, beginning with the identification of unique elements within arrays. Participants explored efficient techniques for detecting and displaying unique values, solidifying their grasp of array manipulation. The session then delved into the juggling algorithm, shedding light on its applications, particularly in array rotation operations. Following this, the training seamlessly transitioned to the crucial concept of pointers. The afternoon practical session was dedicated to implementing pointers in 1D arrays, providing hands-on experience for the participants. The practical session involved writing programs based on the day's topics, reinforcing



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theoretical knowledge with practical application. Overall, day 6 proved to be a dynamic learning experience, combining theoretical understanding with practical implementation in the realm of unique elements, juggling algorithms, and pointers in C programming

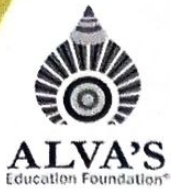
On the seventh day of our training, we gone through the, Overview of C Function Fundamentals: Functions in C are vital for achieving modular and well-organized code. They follow a syntax that includes the return type, function name, and parameters. Preceding the actual function definition, a prototype declares its structure. Invoking a function involves passing arguments and, if applicable, capturing a return value. Parameter passing methods include call by value, suitable for simple data types, and call by address, which allows changes to impact actual parameters. Arrays in C undergo decay when passed to functions, losing size information. Understanding these fundamentals is crucial for efficient programming, as it informs decisions on parameter passing methods and aids in proper array handling.

On this day we had gone through so many problems so the day almost went in practical session the program on sieve algorithm, mixed series, sexy primes and more. Sir has taught us how to use the logic to find a unique and necessary solution to right the code. And then in theory class we looked into the Overview of Storage Classes and the Static Keyword: Storage classes in C dictate the lifetime, visibility, and scope of variables, influencing their storage and accessibility. Among these, the "static" keyword plays a significant role. When applied to a variable, "static" extends its lifetime to the entire program execution, as opposed to the default local scope. Static variables retain their values between function calls, offering persistence. Furthermore, the static keyword can be used to define functions with internal linkage, limiting their visibility to the current translation unit. This feature enhances modularity and encapsulation in larger codebases. In summary, storage classes, particularly the static keyword, provide developers with tools to manage the lifecycle and accessibility of variables, contributing to program efficiency and design.

The day was about knowing about Multidimensional arrays in C allow the storage of data in multiple dimensions, organized as rows and columns. They provide a structured way to represent matrices and grids. Strings in C are essentially arrays of characters, terminated by a null character. String manipulation functions operate on these arrays, making them integral for handling textual data. A pointer to a character, often known as a string pointer, is used to access and manipulate strings efficiently. General functions in C offer a modular approach to code, encapsulating a specific task or computation. They enhance code readability, reusability, and maintainability, promoting good software design practices. Combining these concepts allows for versatile and efficient programming in C, especially when dealing with complex data structures and algorithms. And after the theory class we went through some of the programs with their logics related to these topics.

The day started with some of the example programs and with different logics that use to solve that. Then we went through some topics like Overview of String Concatenation, Dynamic Memory Allocation, and Types of Pointers: String concatenation in C involves combining two strings, often done using the `strcat()` function. It appends characters from one string to another, creating a concatenated result. Proper memory management is crucial to avoid issues like buffer overflows. Dynamic memory allocation is a key feature in C, allowing programs to request memory during runtime using functions like `malloc()`, `calloc()`, and `realloc()`. This flexibility is





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valuable for creating data structures of varying sizes, enhancing memory efficiency. Types of pointers in C contribute to its versatility. Null pointers indicate the absence of a valid memory address, void pointers offer generic pointing capabilities, function pointers enable dynamic function calls, and pointers to pointers (double pointers) allow for indirect access to variables or arrays. A comprehensive understanding of these concepts is essential for effective memory handling and flexible programming in C.

A handwritten signature in black ink, appearing to be "Pradeep Nayak", written over a circular stamp.

Dept. Training Coordinator

Mr. Pradeep Nayak



## DEPARTMENT OF INFORMATION SCIENCE &amp; ENGINEERING




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**TRAINING COORDINATOR**

  
**HOD**  
 Dept. Of Information Science & Engineering  
 Alva's Institute of Engg. & Technology  
 Mijar, MOOGBIDRI - 574 225





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## **DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

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**Event: Algorithms Design and Analysis Training.**

**Resource Person: Dr. Prasanna Kumar H R**

**Date: 14/01/2024 - 15/01/2024 and 30/01/2024 - 31/01/2024**

**Time: 9:00AM to 5:00PM**

**Venue: ISE Lab, Main Block, AIET.**

A hands-on Algorithms Design and Analysis training programme has been organized by Training and Placement cell for Third year ISE students for placement by Dr. Prasanna Kumar H R on 14/01/2024 - 15/01/2024 and 30/01/2024 - 31/01/2024 in AIET campus.

In this comprehensive report, we explore the core concepts of algorithms, pseudocode, and algorithm analysis. Algorithms, fundamental to computer science, provide systematic procedures for problem-solving. Pseudocode serves as a bridge between natural language and code, aiding in algorithmic design and discussion. We delve into important problem types such as sorting, searching, and dynamic programming, string processing, graph problem, combinational problem, geometric problem, numerical problem, highlighting their significance in real-world applications. Algorithm analysis, encompassing time and space complexity analysis, offers insights into efficiency and scalability. Additionally, we examine the mathematical analysis of both non-recursive and recursive algorithms, crucial for understanding their performance characteristics. This report underscores the foundational importance of these topics in computer science, empowering individuals to tackle diverse challenges with precision and efficacy.

**Outcome:** Understanding algorithms, pseudocode, and algorithm analysis equips individuals with powerful problem-solving abilities, enabling them to design efficient solutions, optimize performance, and make significant contributions across various fields of technology and innovation.

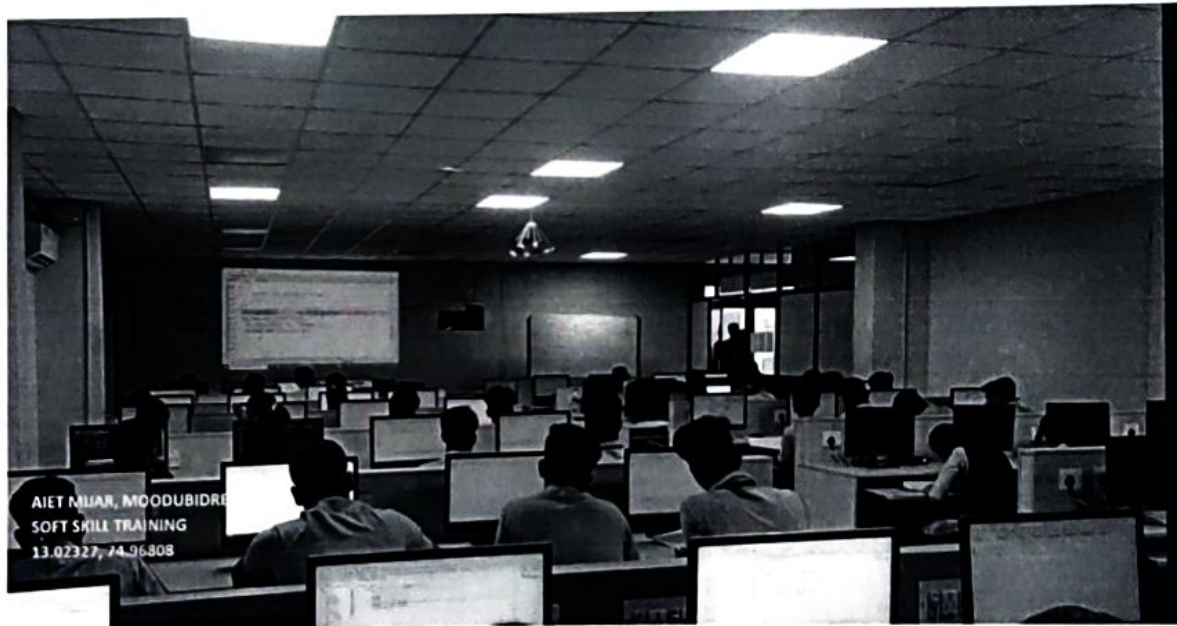
In this concise report, we explore a range of algorithm design techniques crucial to problem-solving in computer science. Beginning with brute force techniques such as selection sort and bubble sort, we highlight their simplicity but limited efficiency for larger datasets. We then delve into brute force string matching and exhaustive search methods, including the traveling sales problem, knapsack problem, and assignment problem, showcasing their applicability in solving optimization challenges. Next, we discuss divide and conquer strategies exemplified by quick sort, merge sort, and binary search, emphasizing their effectiveness in efficiently solving problems by breaking them into smaller, more manageable subproblems. Finally, we touch on tree traversal, binary tree construction, insertion sort, Strassen's matrix multiplication, and topology sorting, underscoring their diverse applications in data processing, optimization, and graph-related tasks. These techniques collectively form the backbone of algorithmic problem-solving, enabling practitioners to tackle a wide array of challenges with precision and efficiency.

**Outcome:** Mastering a diverse array of algorithm design techniques, from brute force to divide and conquer strategies, empowers individuals to efficiently solve a wide range of computational problems. With these skills, they can navigate various challenges in data processing, optimization, and graph-related tasks, propelling them towards success in computer science and related fields.



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In this succinct report, we explore several fundamental algorithm design techniques crucial to problem-solving in computer science. We begin with the Greedy Method, highlighting its simple yet effective approach to optimization problems. We then delve into classic challenges like the Knapsack Problem, where dynamic programming techniques are employed to find optimal solutions. Next, we discuss Dijkstra's Algorithm for finding shortest paths in graphs, emphasizing its importance in network optimization. Spanning trees and graphs are examined, followed by the construction and properties of Huffman Trees, which efficiently encode data. Types of binary trees are explored, including optimal binary search trees, alongside heap construction for priority queues. Dynamic programming techniques are introduced for solving complex optimization problems efficiently. Finally, we touch on graph algorithms such as Warshall's Algorithm and Floyd's Algorithm, essential for finding transitive closures and shortest paths in weighted graphs. These techniques collectively form the foundation of algorithmic problem-solving, enabling practitioners to tackle a diverse array of challenges in various domains effectively.



**Outcome:** Mastering algorithm design techniques like the Greedy Method, dynamic programming, and graph algorithms equips individuals with powerful problem-solving tools. With these skills, they can efficiently tackle optimization challenges, network optimization problems, and graph-related tasks, enabling them to make significant contributions in computer science and related fields.

In this concise report, we delve into essential algorithm design techniques and associated problems pivotal in computer science. We start with Sorting by Counting, a method for efficiently sorting integers, followed by Backtracking, exemplified by challenges like the N Queens Problem and the Hamiltonian Problem, which require exhaustive search techniques. Graph Coloring Problem is explored as an application of backtracking. Next, we discuss Branch and Bound, focusing on its utility in solving optimization problems such as the Assignment Problem. Graph traversal algorithms like Depth-First Search and Breadth-First Search are examined, crucial for exploring graphs efficiently. Finally, we explore AVL trees, discussing their self-balancing properties and the various types of rotations used to maintain balance. These algorithmic techniques and problem-





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solving skills form a robust foundation for addressing diverse computational challenges in fields ranging from optimization to data structures and beyond.

Outcome: Mastering algorithm design techniques such as Sorting by Counting, Backtracking, and Branch and Bound equips individuals with powerful problem-solving tools. Through tackling challenges like the N Queens Problem, Hamiltonian Problem, and Graph Coloring Problem, practitioners develop critical thinking and algorithmic skills. Additionally, understanding graph traversal algorithms like Depth-First Search and Breadth-First Search, as well as data structures like AVL trees, enhances efficiency in navigating and organizing data. These techniques collectively empower individuals to address a wide range of computational problems effectively.

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Dept. Training Coordinator

Mr. Pradeep Nayak





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**SHOBHAVANA CAMPUS, MIJAR, MOODBIDRI - 574 225**  
**DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING**

Pre-Placement Training    Academic Year 2023-24    Event : Algorithms Design and Analysis

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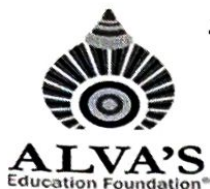


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TRAINING COORDINATOR

HOD  
A. O. D.  
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Alva's Institute of Engg. & Technology  
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## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

**Event: Advance Data Structures and Algorithms**

**Resource Person: Dr. Roshan Fernandes**

**Date: 14/02/2024 - 17/02/2024**

**Time: 9:00AM to 5:00PM**

**Venue: ISE Lab, Main Block, AIET.**

A hands-on Advance Data Structures and Algorithms training programme has been organized by Training and Placement cell for third year ISE students for placement by Dr. Roshan Fernandes on 14/02/2024 – 17/02/2024 in AIET campus

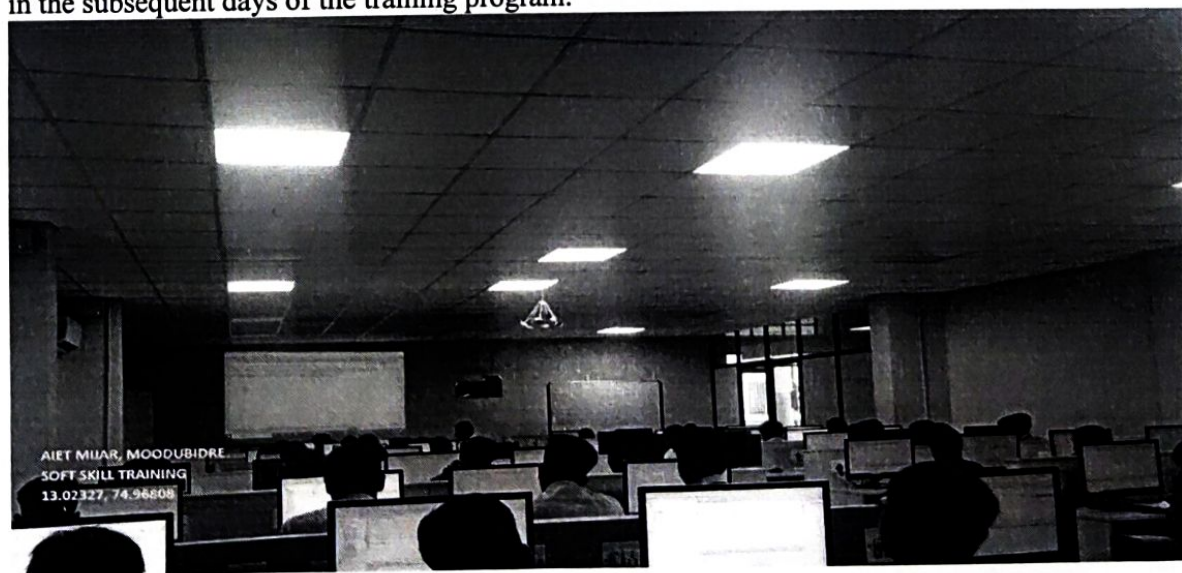
The training program commenced with an introduction to structures and unions, essential concepts in C programming for organizing and manipulating data and advance topics are essential for Placement process. Participants learned about structures, which allow grouping related variables under a single name, facilitating easier organization and manipulation of data. Unions, on the other hand, enable the storage of different data types in the same memory location, conserving memory space. Theoretical lectures covered the syntax, declaration, and usage of structures and unions, emphasizing their role in data organization and memory optimization.

### Practical Exercises:

Practical coding exercises were conducted to reinforce the theoretical concepts of structures and unions. Exercises included creating employee records using structures and optimizing memory usage using unions.

### Outcome:

By the end of day one, participants gained a solid understanding of structures and unions in C programming. Laying a strong foundation for further exploration of data structures and algorithms in the subsequent days of the training program.



Building upon the foundation laid on day one, day two focused on arrays and linked lists. Arrays, a collection of elements stored in contiguous memory locations, allow for fast access to elements using their indices. Linked lists, a linear data structure, were explored where elements are stored in





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## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

nodes, each containing a reference to the next node in the sequence. Theoretical lectures covered the properties, operations, and applications of arrays and linked lists.

### Practical Exercises:

Practical coding exercises were conducted to reinforce the theoretical concepts of arrays and linked lists. Participants implemented various operations on arrays, including searching, sorting, and manipulating elements. They also implemented basic linked list operations such as insertion, deletion, and traversal, gaining hands-on experience in working with linked data structures.

### Outcome:

By the end of day two, participants had gained a comprehensive understanding of arrays and linked lists. They were able to declare, initialize, and manipulate arrays effectively, as well as implement basic operations on linked lists.

Day three delved into stacks and queues, two essential linear data structures with distinct behaviour. Stacks, a Last-In-First-Out (LIFO) data structure, were explored where elements are added and removed from the same end, resembling a stack of plates. Queues, a First-In-First-Out (FIFO) data structure, were discussed where elements are added at the rear and removed from the front, resembling a line of people waiting for a service.

### Outcome:

By the end of day three, participants had gained a solid understanding of stacks and queues. They were able to implement basic stack and queue operations, as well as understand their applications in programming. The practical exercises provided participants with valuable experience in working with stack and queue data structures.

Day four shifted focus to hierarchical data structures with the introduction of trees. Trees, consisting of nodes connected by edges, with a single root node and each node having zero or more child nodes, were explored.

### Binary Trees:

A binary tree is a special type of tree where each node has at most two child nodes - a left child and a right child. Theoretical discussions elucidated the concept of binary trees, including binary tree traversal algorithms such as inorder, preorder, and postorder traversal.

### Outcome:

By the end of day four, participants had gained a comprehensive understanding of trees, particularly binary trees. They were able to implement basic tree operations, as well as understand tree traversal algorithms and their applications in programming. The practical exercises provided participants with valuable experience in working with hierarchical data structures, preparing them for more advanced topics in the subsequent days of the training program.

On the final day of the training program, participants were introduced to non-linear data structures - graphs. Participants delved into the properties, operations, and applications of graphs, gaining practical experience through hands-on coding exercises.

### Graphs:





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A graph is a non-linear data structure consisting of nodes (vertices) and edges connecting these nodes, allowing for versatile representations of relationships between entities. Theoretical lectures covered graph theory concepts such as vertices, edges, graph traversal algorithms (e.g., Depth-First Search, Breadth-First Search), and various types of graphs (e.g., directed, undirected, weighted). Participants learned about graph representation, traversal, and common applications of graphs in programming.

### Graph Traversal Algorithms:

Graph traversal algorithms allow for systematically visiting all the nodes in a graph. Theoretical discussions elucidated graph traversal algorithms such as Depth-First Search (DFS) and Breadth-First Search (BFS), including their implementation and applications in programming. Participants learned to implement DFS and BFS algorithms for traversing graphs, gaining hands-on experience in working with graph data structures.

### Practical Exercises:

Practical coding exercises were conducted to reinforce the theoretical concepts of graphs. Participants implemented graph traversal algorithms such as Depth-First Search (DFS) and Breadth-First Search (BFS) for traversing graphs. They also explored common applications of graph traversal algorithms, gaining practical experience in solving programming problems involving graphs.

### Outcome:

By the end of the training program, participants had gained a solid understanding of graphs and graph traversal algorithms. They were able to implement graph traversal algorithms for traversing graphs, as well as understand their applications in programming. The practical exercises provided participants with valuable experience in working with non-linear data structures, completing their comprehensive training on data structures and algorithms.

  
Dept. Training Coordinator

Mr. Pradeep Nayak





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SHOBHAVANA CAMPUS, MIJAR, MOODBIDRI - 574 225

DEPARTMENT OF INFORMATION SCIENCE &amp; ENGINEERING

Pre-Placement Training Academic Year 2023-24

Event : <sup>Advanced</sup> Data Structures & Algorithms

SN	USN	NAME	14/02/24	15/2/24	16/2/24	17/2/24
1	4AL21IS001	ADITHYA TEJASWI D	A	A	A	A
2	4AL21IS002	AFIZA A	A	A	A	A
3	4AL21IS003	AISHWARYA SALIMATH	A	A	AB	A
4	4AL21IS004	AKASH DEVADIGA	Akash	Akash	Akash	Akash
5	4AL21IS005	AMAR B M	Amar	Amar	Amar	Amar
6	4AL21IS006	ANAGHA UDUPA Y N	A	A	A	A
7	4AL21IS007	ANANYA	Ananya	Ananya	Ananya	Ananya
8	4AL21IS008	ANIRUDH KAMATH K	A	AB	A	A
9	4AL21IS009	ANKITHA B	Ankitha	Ankitha	Ankitha	Ankitha
10	4AL21IS010	BHAGYASHREE R PUJARI	B	B	B	B
11	4AL21IS011	BHARATH J	B	B	B	B
12	4AL21IS012	BHUMIKA SUNIL KULKARNI	B	B	B	B
13	4AL21IS013	CHAITRA S KODDADDI	C	C	C	C
14	4AL21IS014	CHANDAN M N	C	C	C	C
15	4AL21IS015	CHINDAN B V	Ch B V	Ch B V	Ch B V	Ch B V
16	4AL21IS017	GOWRISH N	G	G	G	G
17	4AL21IS018	HARSHITHA B	H	H	H	H
18	4AL21IS019	JAHNAVI	J	J	J	J
19	4AL21IS020	KARTHIK MADAKARI T P	Karthik	Karthik	Karthik	Karthik
20	4AL21IS021	KELVIN DMELLO	K	K	K	K
21	4AL21IS022	KOUSHIK ACHAR	K	K	K	K
22	4AL21IS023	KRUPASHREE R	K	K	K	AB
23	4AL21IS024	LAYA R	Laya R	Laya R	Laya R	Laya R
24	4AL21IS025	MANIKANTA	M	M	M	M
25	4AL21IS026	MANISH K	Manish	Manish	Manish	Manish
26	4AL21IS027	MANJUNATH R	Manjunath R	Manjunath R	Manjunath R	Manjunath R
27	4AL21IS029	MANOJ M U	Manoj	Manoj	Manoj	Manoj
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29	4AL21IS031	MOHAMMED RIHAN	M	M	M	M
30	4AL21IS032	MUHAMMED YAMIN	M	M	M	M
31	4AL21IS033	NANDAN S	N	N	N	N
32	4AL21IS034	NISHANT KUMAR	N	N	N	N
33	4AL21IS035	PRAGATHI G GOWDA	P	P	P	P
34	4AL21IS036	PRAJNA	P	P	P	P
35	4AL21IS037	PRAJWAL GOWDA H G	P	P	P	P
36	4AL21IS038	PRASHANTH KUMAR B C	P	P	P	P
37	4AL21IS039	PREETHAM BYADAGI	P	P	P	P
38	4AL21IS040	R SREEJITH	R	R	R	R
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40	4AL21IS042	SANJAY G K	S	S	S	S
41	4AL21IS043	SANNIDHI K S	S	S	S	S
42	4AL21IS044	SAPTHAMI	Sapthami	Sapthami	Sapthami	Sapthami
43	4AL21IS045	SARTHAK K JAIN	Sarthak	Sarthak	Sarthak	Sarthak



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65	4AL22IS402	CHETAN BYAHATTI				
66	4AL22IS403	LOHITH H				
67	4AL22IS404	NAMRATHA J SHETTY				
68	4AL22IS405	RAHUL P SHETTY				
# ABSENTEES			01	NIL	01	01
FACULTY INCHARGE						

TRAINING COORDINATOR

HOD O.D.  
Dept. Of Information Science & Engineering  
Alva's Institute of Engg. & Technology  
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**Event: Aptitude Training**

**Resource Person: Team of Ten seconds**

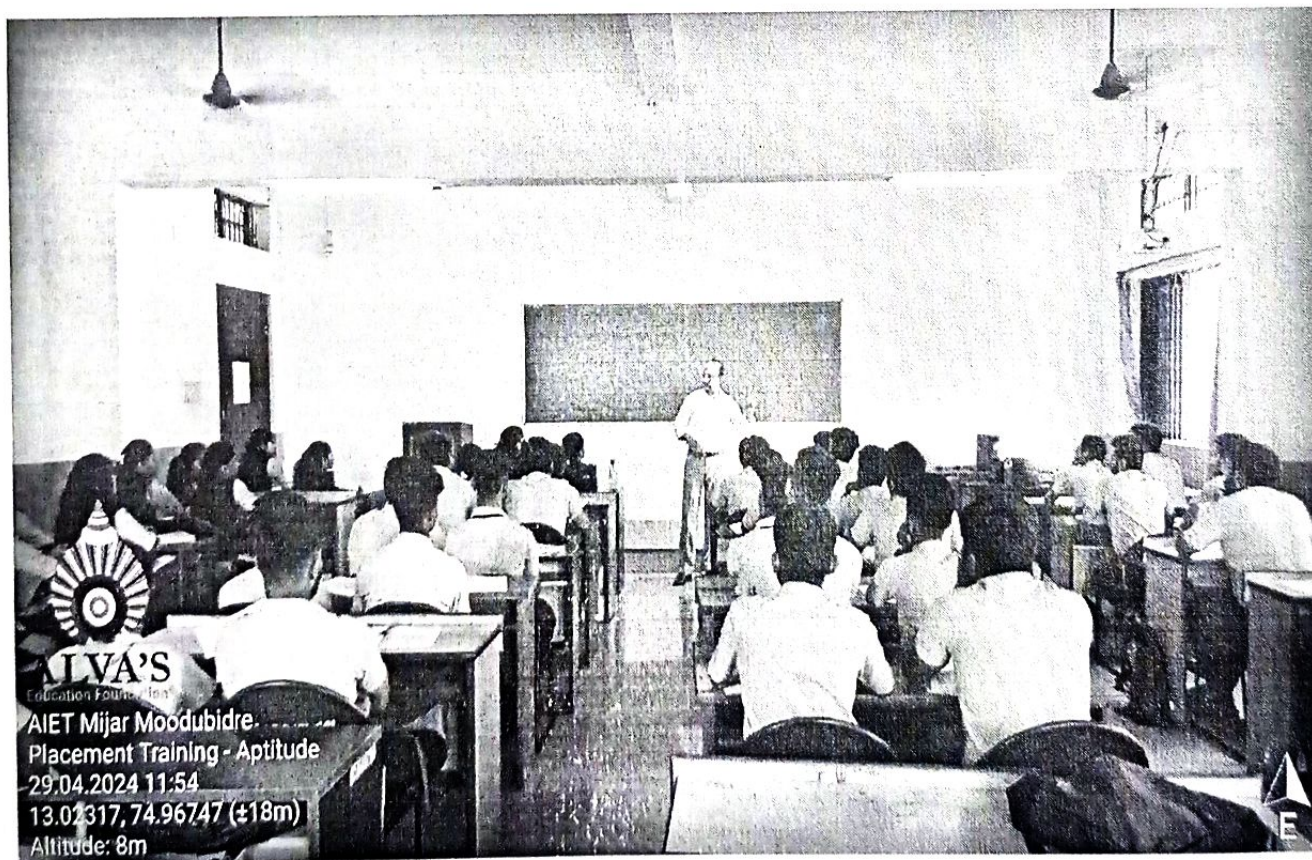
**Date: 29/04/2024 - 02/05/2024**

**Time: 9:00AM to 5:00PM**

**Venue: ISE Lab, Main Block, AIET.**

A hands-on aptitude training program was organized by the Training and Placement cell for students, conducted by the Ten Seconds team from 29/04/2024 to 02/05/2024 at the AIET campus.

The Ten Seconds Aptitude Training, held from April 29 to May 2, 2024, provided an intensive learning experience aimed at enhancing the aptitude and problem-solving skills of participants. Conducted by the expert team from Ten Seconds, the training covered a wide range of topics, including quantitative aptitude, logical reasoning, and data interpretation. Through interactive sessions, the trainers offered tips and strategies to approach various types of questions typically seen in competitive exams and campus recruitment tests, giving participants valuable insights into time management and accuracy improvement techniques.



The training commenced with a focus on quantitative aptitude, covering fundamental topics such as number systems, percentages, ratios, and proportions. Trainers introduced methods to approach common quantitative questions quickly and accurately, emphasizing shortcut techniques for quick calculations. Participants practiced these techniques through targeted exercises, with trainers

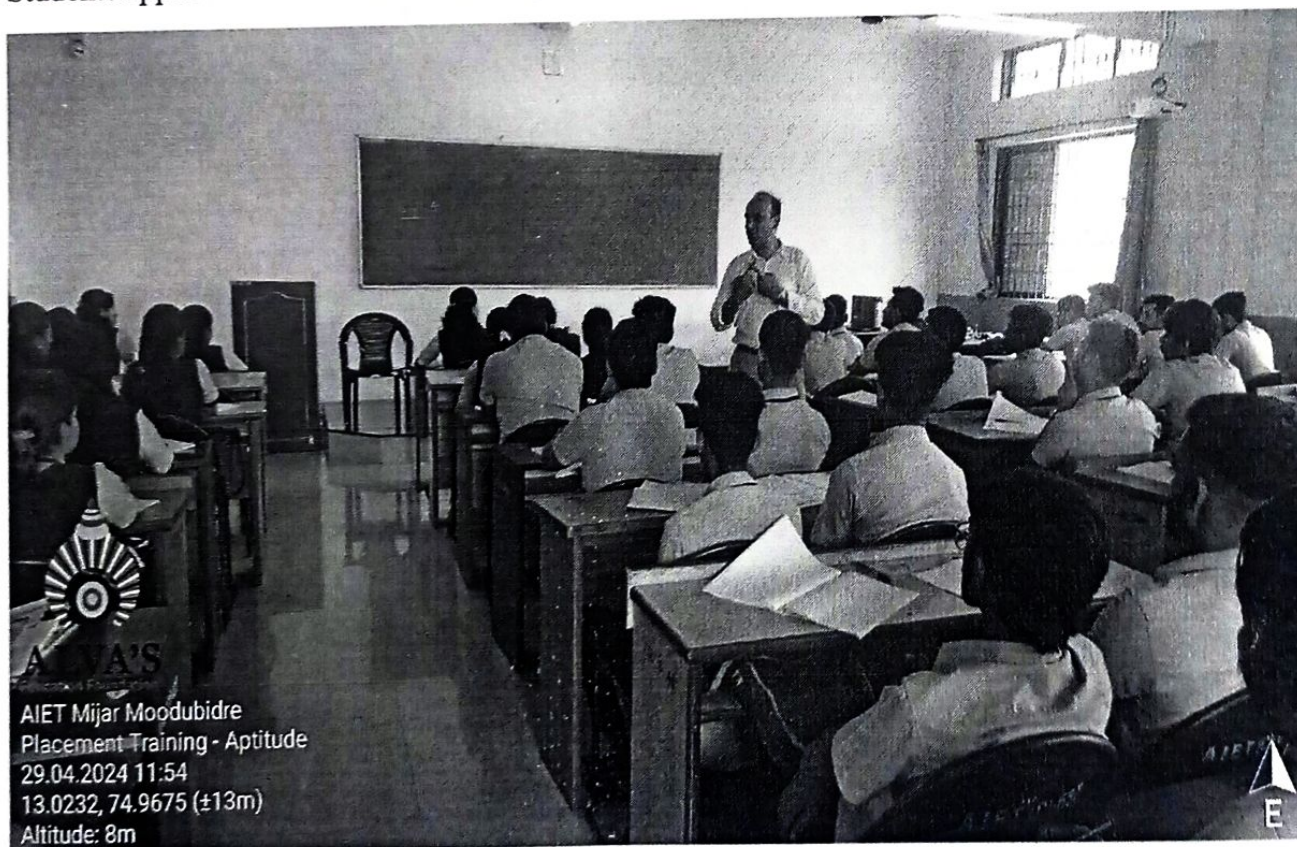


providing insights on how to approach complex problems logically. The sessions also included interactive discussions, allowing students to share their approaches and learn collaboratively

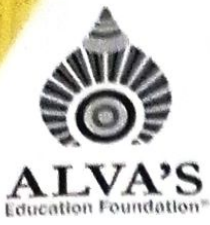
Building on the foundational concepts, Day 2 expanded into advanced quantitative topics, including time, speed, and distance; time and work; and mixtures and allegations. Trainers introduced effective problem-solving techniques for each topic, focusing on time-saving strategies and logical shortcuts. Students engaged in hands-on practice with increasingly challenging problems, which allowed them to apply the new methods and improve their efficiency. Individual assessments were conducted to track progress and provide feedback on each participant's speed and accuracy.

Day 3 shifted to logical reasoning and analytical skills, which are essential for aptitude tests. Topics covered included series and patterns, syllogisms, blood relations, seating arrangements, and puzzles. Trainers taught techniques for quickly identifying patterns and making logical deductions, helping students solve complex reasoning problems efficiently. Group exercises and puzzle-solving sessions were organized to encourage peer learning and collaborative thinking. Participants practiced under timed conditions, which helped them refine their analytical skills and perform better under pressure.

On the final day, the focus was on data interpretation, covering topics such as bar graphs, pie charts, and tables. Trainers explained methods to quickly analyze data sets and make accurate calculations. The training concluded with a full-length mock test, simulating an actual aptitude test environment. Students applied all the skills and techniques they had learned over the four days, receiving







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personalized feedback afterward to highlight their strengths and areas needing improvement. This comprehensive approach ensured that participants left well-prepared for real-world aptitude assessments and recruitment processes.

A handwritten signature in black ink, appearing to be "Pradeep", written over a circular stamp or seal.

Dept. Training Coordinator

Mr. Pradeep Nayak





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DEPARTMENT OF INFORMATION SCIENCE &amp; ENGINEERING

Pre-Placement Training Academic Year 2023-24

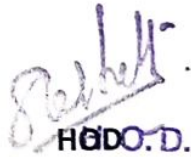
Event : *Aptitude Training*

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2	4AL21IS002	AFIZA A	<i>AF</i>	<i>AF</i>	<i>AF</i>	<i>AF</i>
3	4AL21IS003	AISHWARYA SALIMATH	<i>AS</i>	<i>AS</i>	<i>AS</i>	<i>AS</i>
4	4AL21IS004	AKASH DEVADIGA	<i>AD</i>	<i>AD</i>	<i>AD</i>	<i>AD</i>
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8	4AL21IS008	ANIRUDH KAMATH K	<i>An</i>	<i>An</i>	<i>An</i>	<i>An</i>
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11	4AL21IS011	BHARATH J	<i>Bh</i>	<i>Bh</i>	<i>Bh</i>	<i>AB</i>
12	4AL21IS012	BHUMIKA SUNIL KULKARNI	<i>BK</i>	<i>BK</i>	<i>BK</i>	<i>BK</i>
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15	4AL21IS015	CHINDAN B V	<i>Ch B V</i>	<i>Ch B V</i>	<i>Ch B V</i>	<i>Ch B V</i>
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17	4AL21IS018	HARSHITHA B	<i>Har</i>	<i>Har</i>	<i>Har</i>	<i>Har</i>
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21	4AL21IS022	KOUSHIK ACHAR	<i>Ko</i>	<i>Ko</i>	<i>Ko</i>	<i>Ko</i>
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23	4AL21IS024	LAYA R	<i>Laya R</i>	<i>Laya R</i>	<i>Laya R</i>	<i>Laya R</i>
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29	4AL21IS031	MOHAMMED RIHAN	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>
30	4AL21IS032	MUHAMMED YAMIN	<i>Yamin</i>	<i>Yamin</i>	<i>Yamin</i>	<i>Yamin</i>
31	4AL21IS033	NANDAN S	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>
32	4AL21IS034	NISHANT KUMAR	<i>NK</i>	<i>NK</i>	<i>NK</i>	<i>NK</i>
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43	4AL21IS045	SARTHAK K JAIN	<i>Sarthak</i>	<i>Sarthak</i>	<i>Sarthak</i>	<i>Sarthak</i>



44	4AL21IS046	SATEESH SATYANNAVAR	SS	SS	SS	SS
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46	4AL21IS048	SHARAVI R RAI	SS	SS	SS	SS
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51	4AL21IS053	SHRUJAN KUMAR H V	SS	SS	SS	SS
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64	4AL22IS401	CHARAN S V	SS	SS	SS	SS
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66	4AL22IS403	LOHITH H	SS	SS	SS	SS
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68	4AL22IS405	RAHUL P SHETTY	SS	SS	SS	SS
# ABSENTEES			NIL	01	01	01
FACULTY INCHARGE			SS	NA	SS	SS

  
**TRAINING COORDINATOR**

  
**HOD.D.**  
 Dept. Of Information Science & Engineering  
 Alva's Institute of Engg. & Technology  
 Mijar, MOODBIDRI - 574 225



**Event: FUNDAMENTALS OF JAVA**

**Resource Person: Ms. Deeksha M**

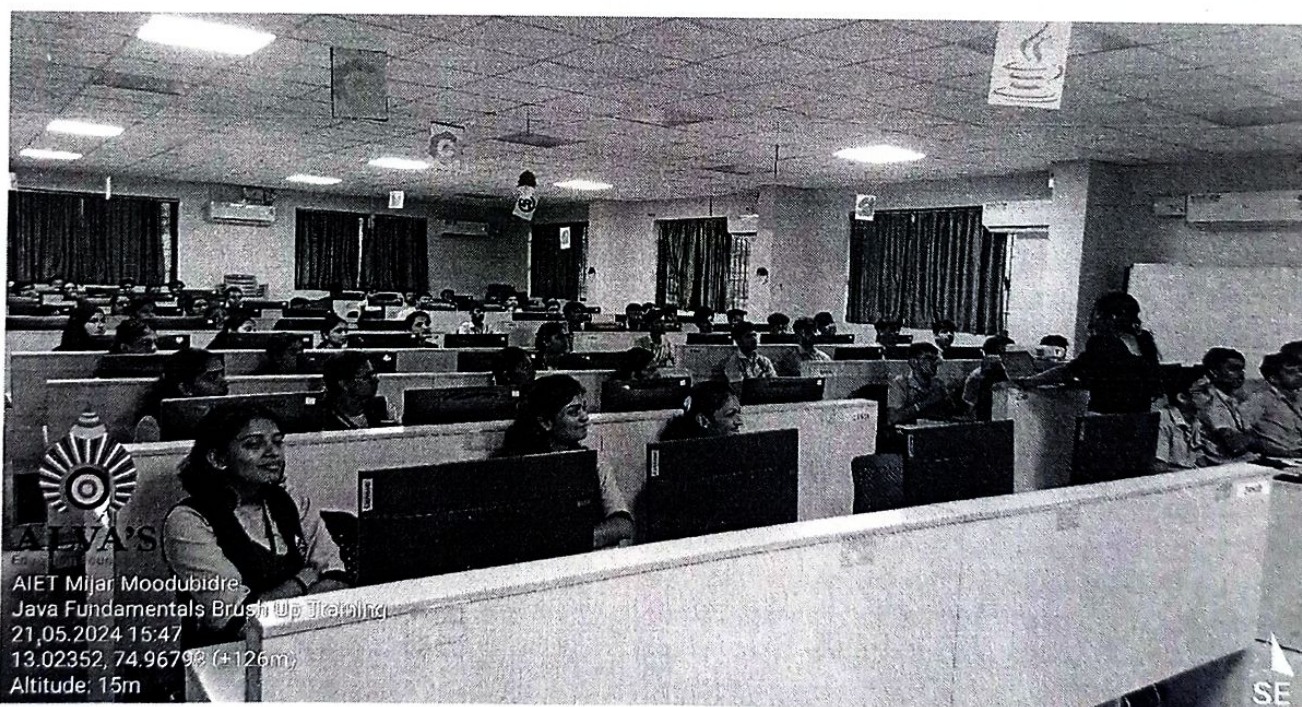
**Date: 20/05/2024 - 25/05/2024**

**Time: 9:00AM to 5:00PM**

**Venue: ISE Lab, Main Block, AIET.**

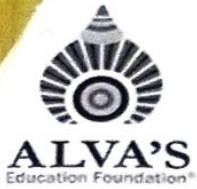
A hands-on JDBC training programme has been organized by Training and Placement cell for Third year ISE students for placement by Ms. Deeksha M on 20/05/2024 - 25/05/2024 in AIET campus.

The training on Java programming provided a comprehensive overview of essential concepts and functionalities. Participants learned the basics of Java, including its key features like platform independence, object-oriented structure, and robust security. The structure of a Java program was discussed, highlighting its syntax and components. The session also covered the steps required to compile and execute a Java program, emphasizing the use of the Java Development Kit (JDK) for this process. Special attention was given to the significance of the main method as the entry point for Java applications, reinforcing its crucial role in program execution. Overall, the training equipped attendees with a solid foundation to begin coding in Java.



The training session focused on fundamental concepts in Java programming, specifically covering tokens, variables, and data types. Participants explored the various types of tokens in Java, including keywords, identifiers, literals, operators, and separators. The session delved into variables, discussing their role in storing data, as well as the different types of data types available in Java—primitive and reference types. A thorough explanation of variable types was provided, emphasizing their importance in defining the nature of data that can be stored. Additionally, operators in Java were examined, highlighting their characteristics, such as precedence and associativity, which are crucial for performing operations on variables and data. Overall, the training equipped attendees with essential knowledge to effectively utilize tokens, variables, and operators in their Java programs.





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## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

The training session covered key control structures and operations in Java, focusing on increment and decrement operators, type casting, conditional statements, and looping statements. Participants learned how increment (++) and decrement (--) operators can efficiently modify variable values and how type casting allows for conversion between different data types, enhancing flexibility in programming. The session also explored conditional statements, such as if, else if, and switch, which enable decision-making in code. Furthermore, various looping constructs, including for, while, and do-while loops, were examined, demonstrating how they facilitate repeated execution of code blocks. Overall, the training provided attendees with practical knowledge to implement control flow in their Java applications effectively.

On the fourth day of the training program, The training session focused on essential concepts related to methods, modifiers, return types, and arrays in Java. Participants gained a thorough understanding of how methods are defined and utilized to encapsulate functionality, along with the role of modifiers—such as public, private, and static—in controlling access to these methods. The concept of return types was also emphasized, illustrating how methods can return various data types. Additionally, the session covered arrays, detailing their structure for storing multiple values of the same type and their significance in managing collections of data. Key characteristics of arrays, including fixed size, indexed access, and memory allocation, were discussed to enhance participants' comprehension of how to effectively use arrays in their programming. Overall, the training equipped attendees with vital skills to implement methods and manage data collections in Java.

On the fifth day of the java programming course The training session provided an in-depth overview of Object-Oriented Programming (OOP) concepts in Java, focusing on the foundational elements of objects and classes. Participants learned how to define classes and create objects, along with an exploration of class members, which include fields and methods. The session highlighted static methods and their utility in accessing class-level data without requiring an instance of the class. Additionally, the role of constructors was discussed, emphasizing their function in initializing objects. Various types of constructors were introduced, including default and parameterized constructors, alongside concepts like constructor overloading and constructor chaining, which allow for flexible object initialization. Overall, the training equipped attendees with essential OOP principles to enhance their Java programming skills.

On the sixth day of the java programming course, The training session focused on key principles of Object-Oriented Programming (OOP), particularly the main pillars: encapsulation, inheritance, polymorphism, and abstraction. Participants explored polymorphism in detail, examining how it enables methods to take on multiple forms, and discussed method overriding as a way to provide specific implementations in subclasses. The session also addressed the diamond problem in Java, particularly in the context of JDBC, highlighting the challenges that arise from multiple inheritance and how to resolve them effectively. Additionally, non-primitive type casting was covered, illustrating how objects can be converted between compatible classes. Overall, the training provided a comprehensive understanding of OOP concepts and their practical implications in Java development.

  
Dept. Training Coordinator

Mr. Pradeep Nayak








44	4AL21IS046	SATEESH SATYANNAVAR	SS	SS	SS	SS	SS	SS
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48	4AL21IS050	SHRAVAN R POOJARY	SS	SS	SS	SS	SS	SS
49	4AL21IS051	SHRAVITHA	SS	SS	SS	SS	SS	SS
50	4AL21IS052	SHREYA RAI	SS	SS	SS	SS	SS	SS
51	4AL21IS053	SHRUJAN KUMAR H V	SS	SS	SS	SS	SS	SS
52	4AL21IS054	SOORAJ	SS	SS	SS	SS	SS	SS
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58	4AL21IS060	SUVARNA ARVINKANTH	SS	SS	SS	SS	SS	SS
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62	4AL21IS064	CHANDANA N M	SS	SS	SS	SS	AB	SS
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64	4AL22IS401	CHARAN S V	SS	SS	SS	SS	SS	SS
65	4AL22IS402	CHETAN BYAHATTI	SS	SS	SS	SS	SS	SS
66	4AL22IS403	LOHITH H	SS	SS	SS	SS	SS	SS
67	4AL22IS404	NAMRATHA J SHETTY	SS	SS	SS	SS	SS	SS
68	4AL22IS405	RAHUL P SHETTY	SS	SS	SS	SS	SS	SS
# ABSENTEES			NIL	NIL	01	01	01	NIL
FACULTY INCHARGE			A	SS	SS	SS	SS	SS

  
TRAINING COORDINATOR

  
HOD  
Dept. Of Information Science & Engg.  
Alva's Institute of Engg. & Techno  
Mangaluru, KERALA 574 225





# ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

A Unit of Alva's Education Foundation (R)

(Affiliated to Visvesvaraya Technological University, Belagavi.

Approved by AICTE, New Delhi & Recognized by Government of Karnataka)  
Shobhavana Campus, Mijar, Moodbidri- 574 225, Mangalore, D.K., Karnataka State.

(Accredited By NAAC with A+ grade)

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

**Event: TRAINING ON JAVA BACKEND - JDBC**

**Resource Person: Ms. Deeksha M**

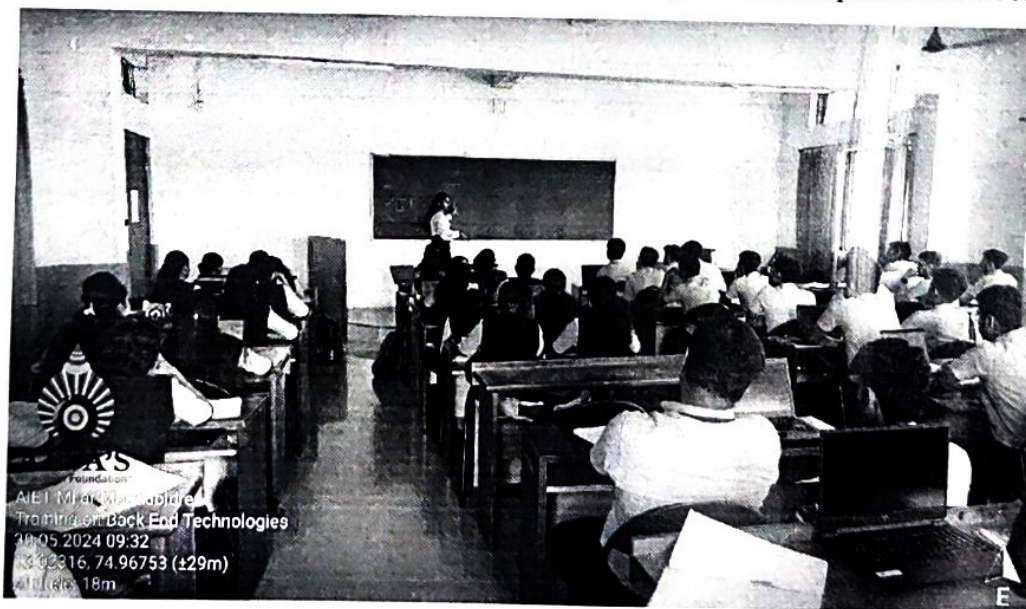
**Date: 26/05/2024 - 31/05/2024**

**Time: 9:00AM to 5:00PM**

**Venue: ISE Lab, Main Block, AIET.**

A hands-on JDBC training programme has been organized by Training and Placement cell for Third year ISE students for placement by Ms. Deeksha M on 26/05/2024 - 31/05/2024 in AIET campus.

On the seventh day of our training, we gone through the training session provided a thorough exploration of abstraction in Java, focusing on abstract classes and interfaces as key mechanisms for achieving it. Participants learned how abstract classes allow for defining common behaviour while leaving implementation details to subclasses, enabling code reuse and flexibility. The session also covered interfaces, emphasizing their role in defining contracts that multiple classes can implement, promoting loose coupling and enhancing scalability. Additionally, the topic of exceptions was addressed, highlighting the importance of error handling in Java applications. Participants explored different types of exceptions, including checked and unchecked exceptions, and learned best practices for using try-catch blocks to manage errors gracefully. Overall, the training equipped attendees with essential skills to implement abstraction and effectively handle exceptions in their Java projects.



On this day of our training the day The training session covered the fundamentals of Java Database Connectivity (JDBC), providing participants with a comprehensive understanding of how Java applications interact with databases. The differences between file systems and databases were discussed, highlighting how databases offer structured data storage, enhanced querying capabilities, and improved data integrity. Various types of databases, including relational, NoSQL, and in-memory





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## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

databases, were explored, along with their specific use cases. The session also focused on driver software, explaining its critical role in facilitating communication between Java applications and database systems. Participants learned about different types of database drivers—such as JDBC-ODBC bridges, native-API drivers, and thin drivers—and their respective advantages. Overall, the training equipped attendees with essential knowledge to leverage JDBC for effective database management in Java applications.

On this day of our training The training session provided a detailed overview of the steps involved in connecting a Java application to a database using JDBC. Participants learned the sequential process, starting with loading or registering the database driver, which is essential for establishing communication between the Java application and the database. The session covered how to establish a connection using the DriverManager class, emphasizing the importance of connection strings and credentials. Following this, attendees explored how to create a statement object, which is used to send SQL commands to the database. The execution of statements was also discussed, highlighting the various methods available for querying and updating data. Finally, the training underscored the importance of properly closing connections to free resources and maintain database integrity. Overall, participants gained practical knowledge to effectively implement database connectivity in their Java applications.

In today's training session, we discussed the key differences between Statement and PreparedStatement in Java. A **Statement** is used for executing simple SQL queries without parameters, making it less efficient and prone to SQL injection attacks. On the other hand, a **PreparedStatement** allows for pre-compiling SQL queries with parameters, providing better security and performance, especially when executing queries multiple times. After the discussion, our instructor gave us a problem statement to solve on our own, allowing us to apply these concepts practically and better understand their usage in real-world scenarios.

Today marked the final day of our training, where we had a comprehensive revision of all the topics covered throughout the course, from the basics of Java to the more advanced concepts of JDBC. The session recapped key Java fundamentals, including object-oriented programming, collections, exception handling, and multithreading. We also revisited important JDBC concepts such as database connectivity, executing SQL queries using Statement and PreparedStatement, and handling result sets. The revision helped solidify our understanding and provided clarity on any lingering doubts, ensuring we are well-prepared to apply these concepts effectively.

  
Dept. Training Coordinator

Mr. Pradeep Nayak



**ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY****SHOBHAVANA CAMPUS, MIJAR, MOODBIDRI - 574 225****DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING**

Pre-Placement Training Academic Year 2023-24

Event : Training on java Backend - JDBC

SN	USN	NAME	26/5/24	27/5/24	28/5/24	29/5/24	30/5/24	31/5/24
1	4AL21IS001	ADITHYA TEJASWI D	A	P	A	P	P	AB
2	4AL21IS002	AFIZA A	A	A	A	A	A	A
3	4AL21IS003	AISHWARYA SALIMATH	A	A	P	AB	A	A
4	4AL21IS004	AKASH DEVADIGA	A	A	A	A	A	A
5	4AL21IS005	AMAR B M	Amar b	Amar b	Amar b	Amar b	Amar b	Amar b
6	4AL21IS006	ANAGHA UDUPA Y N	A	A	A	A	A	A
7	4AL21IS007	ANANYA	A	A	A	A	A	A
8	4AL21IS008	ANIRUDH KAMATH K	A	A	A	AB	A	A
9	4AL21IS009	ANKITHA B	A	A	A	A	A	A
10	4AL21IS010	BHAGYASHREE R PUJARI	A	A	A	A	A	A
11	4AL21IS011	BHARATH J	A	A	A	A	A	A
12	4AL21IS012	BHUMIKA SUNIL KULKARNI	A	A	A	A	A	A
13	4AL21IS013	CHAITRA S KODDADDI	A	A	A	A	A	A
14	4AL21IS014	CHANDAN M N	A	A	A	A	A	A
15	4AL21IS015	CHINDAN B V	A	A	A	A	A	A
16	4AL21IS017	GOWRISH N	A	A	A	A	A	A
17	4AL21IS018	HARSHITHA B	A	A	A	A	A	A
18	4AL21IS019	JAHAVI	A	A	A	A	A	A
19	4AL21IS020	KARTHIK MADAKARI T P	A	A	A	A	A	A
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28	4AL21IS030	MOHAMMED ADIL	A	A	A	A	A	A
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30	4AL21IS032	MUHAMMED YAMIN	A	A	A	A	A	A
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32	4AL21IS034	NISHANT KUMAR	A	A	A	A	A	A
33	4AL21IS035	PRAGATHI G GOWDA	A	A	A	A	A	A
34	4AL21IS036	PRAJNA	A	A	A	A	A	A
35	4AL21IS037	PRAJWAL GOWDA H G	A	A	A	A	A	A
36	4AL21IS038	PRASHANTH KUMAR B C	A	A	A	A	A	A
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39	4AL21IS041	RANJITH	A	A	A	A	A	A
40	4AL21IS042	SANJAY G K	A	A	A	A	A	A
41	4AL21IS043	SANNIDHI K S	A	A	A	A	A	A
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51	4AL21IS053	SHRUJAN KUMAR H V	SD	AB	SD	SD	SD	SD
52	4AL21IS054	SOORAJ	SD	SD	SD	SD	SD	SD
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63	4AL22IS400	ANKITH	SD	SD	SD	SD	SD	SD
64	4AL22IS401	CHARAN S V	SD	SD	SD	SD	SD	SD
65	4AL22IS402	CHETAN BYAHATTI	SD	SD	SD	SD	SD	SD
66	4AL22IS403	LOHITH H	SD	SD	SD	SD	SD	SD
67	4AL22IS404	NAMRATHA J SHETTY	SD	SD	SD	SD	SD	SD
68	4AL22IS405	RAHUL P SHETTY	AB	SD	SD	SD	SD	SD
# ABSENTEES			02	01	01	03	01	02
FACULTY INCHARGE			SD	SD	SD	SD	SD	SD

  
**TRAINING COORDINATOR**

  
**HOD**  
 Dept. Of Information Science & Engineering  
 Arva's Institute of Engg. & Technology  
 Mijar, MOODBIDRI - 574 225





# Alva's Institute of Engineering & Technology

Shobhavana Campus, Mijar, Moodbidri, D.K – 574225

(Accredited with NAAC A+ and NBA, New Delhi 2019-2025)

## Pre-placement Phase-2 Training Schedule

Date	Group 1: SSCD Lab	Group 2: Internet Lab(GF)	Group 3: AIML Lab(2 <sup>nd</sup> F)	Group 4: ISE Lab(3 <sup>rd</sup> F)
11 <sup>th</sup> Aug	KSCST Project Exhibition: All students must should view all the interdisciplinary projects and Prepare the Synopsis for Final Year Projects			
12 <sup>th</sup> Aug	3 Hours Descriptive Assessment on Data Structures & Algorithms(9:30-12:30)			
Time	9Am to 5 PM	9Am to 5 PM	9Am to 5 PM	9Am to 5 PM
14 <sup>th</sup> Aug	Python Programming Fundamentals Prof.Shrikanth & Prof. Rizawan N Shaikh	Java Programming Dr.Mohideen Badhusha S	Java Programming Prof.Mahesh Kini M and Mr.Senthil Kumar R	Java Programming Dr.Pradeep V and Mrs. Deeksha M
15 <sup>th</sup> Aug	Python Programming Fundamentals Prof.Shrikanth & Prof. Rizawan N Shaikh	Java Programming Dr.Mohideen Badhusha S	Java Programming Prof.Mahesh Kini M and Mr.Senthil Kumar R	Java Programming Dr.Pradeep V and Mrs. Deeksha M
16 <sup>th</sup> Aug	Python Programming Fundamentals Prof.Shrikanth & Prof. Rizawan N Shaikh	Advanced Java Programming Mr.Charles Antoni, Mysuru	Java Programming Dr.Mohideen Badhusha S	Web Programming Prof.Vidya & Mr.Prashanth Kumar
17 <sup>th</sup> Aug	Advanced Python Programming Dr. Basavaraj Talawar, NITK Surathkal	Advanced Java Programming Mr.Charles Antoni, Mysuru	Java Programming Dr.Mohideen Badhusha S	Web Programming Prof.Vidya & Mr.Prashanth Kumar
18 <sup>th</sup> Aug	Advanced Python Programming Dr. Basavaraj Talawar, NITK Surathkal	Web Programming Prof.Vidya & Mr.Prashanth Kumar	Advanced Java Programming Mr.Charles Antoni, Mysuru	Java Programming Dr.Mohideen Badhusha S
19 <sup>th</sup> Aug	Advanced Python Programming Dr. Basavaraj Talawar, NITK Surathkal	Web Programming Prof.Vidya & Mr.Prashanth Kumar	Advanced Java Programming Mr.Charles Antoni, Mysuru	Java Programming Dr.Mohideen Badhusha S
20 <sup>th</sup> Aug	Web Programming Prof.Vidya & Mr.Prashanth Kumar	Java Programming Prof.Mahesh Kini M and Mr.Senthil Kumar R	Web Programming Dr.G.Srinivasan & Mr.Pradeep Nayak	Advanced Java Programming Mr.Charles Antoni, Mysuru
21 <sup>st</sup> Aug	Web Programming Prof.Vidya & Mr.Prashanth Kumar	Java Programming Prof.Mahesh Kini M and Mr.Senthil Kumar R	Web Programming Dr.G.Srinivasan & Mr.Pradeep Nayak	Advanced Java Programming Mr.Charles Antoni, Mysuru
22 <sup>nd</sup> Aug	Python & Java Assessment			
23 <sup>rd</sup> Aug	Code Craft Placement Drive			





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24 <sup>th</sup> Aug	Assessment & Guest Lecture by Girish Prasad			
25 <sup>th</sup> Aug	Company Specific Training- FACE Academy	Company Specific Training- FACE Academy	Company Specific Training- FACE Academy	Company Specific Training- FACE Academy
26 <sup>th</sup> Aug	Company Specific Training- FACE Academy	Company Specific Training- FACE Academy	Company Specific Training- FACE Academy	Company Specific Training- FACE Academy
27 <sup>th</sup> Aug	Company Specific Training- FACE Academy	Company Specific Training- FACE Academy	Company Specific Training- FACE Academy	Company Specific Training- FACE Academy
28 <sup>th</sup> Aug	Soft Skill Training - Aerodynamiks	Soft Skill Training - Aerodynamiks	Company Specific Training- FACE Academy	Company Specific Training- FACE Academy
29 <sup>th</sup> Aug	Soft Skill Training - Aerodynamiks	Soft Skill Training - Aerodynamiks	Company Specific Training- FACE Academy	Company Specific Training- FACE Academy
30 <sup>th</sup> Aug	Soft Skill Training - Aerodynamiks	Soft Skill Training - Aerodynamiks	Company Specific Training- FACE Academy	Company Specific Training- FACE Academy
31 <sup>st</sup> Aug	Company Specific Training- FACE Academy	Company Specific Training- FACE Academy	Soft Skill Training - Aerodynamiks	Soft Skill Training - Aerodynamiks
1 <sup>st</sup> Sep	Company Specific Training- FACE Academy	Company Specific Training- FACE Academy	Soft Skill Training - Aerodynamiks	Soft Skill Training - Aerodynamiks
2 <sup>nd</sup> Sep	Company Specific Training- FACE Academy	Company Specific Training- FACE Academy	Soft Skill Training - Aerodynamiks	Soft Skill Training - Aerodynamiks

Batches for Aptitude Training (Laptops and Mobile Phones not allowed for Aptitude Training)

Group Name	Branches & USN	Room Nos.
Group-I	CSE- 4AL20CS001 to 4AI20CS090	311
Group-II	CSE- 4AL20CS091 to 4AI20CS405	312
Group-III	All AIML + ECE: 4AL20EC001 to 4AL20EC036	202
Group-IV	All ISE + ECE: 4AL20EC037 to 4AL20EC062	302

*Shobh*  
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Dept. Of Information Science & Engineering  
Alva's Institute of Engg. & Technology  
Mijar, MOOBBIDRI - 574 225





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## **DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**Event: Java Programming Training.**

**Resource Person: Dr. Pradeep V and Mrs. Deeksha M**

**Date: 14/08/2023 - 15/08/2023**

**Time: 9:00AM to 5:00PM**

**Venue: ISE Lab & Room Num 303, Main Block, AIET.**

Two Days hands-on Java Programming training programme has been organized by Training and Placement cell for final year ISE students for placement by Dr. Pradeep V and Mrs. Deeksha M on 14/08/2023 and 15/08/2023 in AIET campus

Dr. Pradeep V and Mrs. Deeksha M conducted a comprehensive Java programming session covering a wide range of topics. Dr. Pradeep V focused on foundational concepts such as JDK installation, keywords, identifiers, variables, and operators, supplementing theory with practical examples. Mrs. Deeksha M delved into more advanced topics including methods/functions, flow control statements, arrays, strings, and interactive programs using Scanner.







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## **DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

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Both instructors provided hands-on learning experiences with small programming tasks assigned to students in each topic covered. Additionally, they introduced various shortcut methods to enhance efficiency in Java programming. By combining theoretical knowledge with practical application and interactive learning, the session ensured that students gained a well-rounded understanding of Java programming concepts and techniques, preparing them for real-world development challenges.

### **Outcomes:**

- All major Java basics were revised for placement readiness.
- Students got to know, the way of solving the tricky java coding puzzles.

A handwritten signature in black ink, appearing to read "Pradeep", is written over a circular stamp or seal.

Dept. Training Coordinator

Mr. Pradeep Nayak





# ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

SHOBHAVANA CAMPUS, MIJAR, MOODBIDRI - 574 225

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING


BOOTCAMP TRAINING PHASE-2 : Java Programming Brushup Session

4th Year 2023-24

S.N	USN	NAME	14/08/2023		15/08/2023	
			FN	AN	FN	AN
1	4AL20IS001	Abhishek R Bhat	Abhishek	Abhishek	Abhishek	Abhishek
2	4AL20IS002	Abhishek S V	Abhishek	Abhishek	Abhishek	Abhishek
3	4AL20IS003	Akash K Acharya	Akash	Akash	Akash	Akash
4	4AL20IS004	Amruth P S	Amruth	Amruth	Amruth	Amruth
5	4AL20IS005	Anand M Rastapur	Anand	Anand	Anand	Anand
6	4AL20IS007	Ashwini.M	Ashwini	Ashwini	Ashwini	Ashwini
7	4AL20IS008	B.S. Sumukha	B.S.S	AB	B.S.S	B.S.S
8	4AL20IS009	C H Rakesh	CH	CH	CH	CH
9	4AL20IS010	Chandana A S	chandana	chandana	chandana	chandana
10	4AL20IS011	Chandana P T	CH	CH	CH	CH
11	4AL20IS013	Darshan.S	Darshan	Darshan	Darshan	Darshan
12	4AL20IS014	Deekshith	Deekshith	Deekshith	Deekshith	Deekshith
13	4AL20IS016	Diya H B	Diya	Diya	Diya	Diya
14	4AL20IS017	Fathima Thahiba	Fathima	Fathima	Fathima	Fathima
15	4AL20IS018	Finny Paul	Finny	Finny	Finny	Finny
16	4AL20IS019	Gary Richards	Gary	Gary	Gary	Gary
17	4AL20IS020	Keerthana	Keerthana	Keerthana	Keerthana	Keerthana
18	4AL20IS021	Likitha K M	Likitha	Likitha	Likitha	Likitha
19	4AL20IS023	Madhu M	Madhu	Madhu	Madhu	AB
20	4AL20IS024	Madhushree	Madhu	Madhu	Madhu	Madhu
21	4AL20IS025	Meghana K	Meghana	Meghana	Meghana	Meghana
22	4AL20IS027	Mohammed Sufiyan	Sufiyan	Sufiyan	Sufiyan	Sufiyan
23	4AL20IS029	Maneesha N S	Maneesha	Maneesha	Maneesha	Maneesha
24	4AL20IS030	Moolya Gowthami	Moolya	Moolya	Moolya	Moolya
25	4AL20IS031	Nandhan M R	Nandhan	Nandhan	Nandhan	Nandhan
26	4AL20IS032	Nayana T	Nayana	Nayana	Nayana	Nayana
27	4AL20IS033	Nesara S Gowda	Nesara	Nesara	Nesara	Nesara
28	4AL20IS034	Nidhi N Shetty	Nidhi	Nidhi	Nidhi	Nidhi
29	4AL20IS035	Poorvika	Poorvika	Poorvika	Poorvika	Poorvika
30	4AL20IS036	Prajwal Gowda M M	Prajwal	Prajwal	Prajwal	Prajwal
31	4AL20IS037	Prasad Achari	Prasad	Prasad	Prasad	Prasad
32	4AL20IS041	Yashavardhan S G	Yashavardhan	Yashavardhan	Yashavardhan	Yashavardhan
33	4AL20IS042	Sahana	Sahana	Sahana	Sahana	Sahana
34	4AL20IS043	Sharan	Sharan	Sharan	Sharan	Sharan
35	4AL20IS045	Prajaktha Shetty	Prajaktha	Prajaktha	Prajaktha	Prajaktha



36	4AL20IS046	Shramik S Shetty	<del>AL</del>	<del>AL</del>	<del>AL</del>	<del>AL</del>
37	4AL20IS048	Srushti.S.K	<del>AB</del>	<del>AB</del>	<del>AB</del>	<del>AB</del>
38	4AL20IS049	Sudeep.K	<del>AL</del>	<del>AL</del>	<del>AL</del>	<del>AL</del>
39	4AL20IS050	Sudheer	<del>AL</del>	<del>AL</del>	<del>AL</del>	<del>AL</del>
40	4AL20IS051	Sujan P S	<del>AL</del>	<del>AL</del>	<del>AL</del>	<del>AL</del>
41	4AL20IS052	Suraj S Ankolokhar	<del>AL</del>	<del>AL</del>	<del>AL</del>	<del>AL</del>
42	4AL20IS053	Sushma K N	<del>AL</del>	<del>AL</del>	<del>AL</del>	<del>AL</del>
43	4AL20IS054	Swetha S	<del>AL</del>	<del>AL</del>	<del>AL</del>	<del>AL</del>
44	4AL20IS056	Tejaswini G	<del>AL</del>	<del>AL</del>	<del>AL</del>	<del>AL</del>
45	4AL20IS057	Vaishali	<del>AL</del>	<del>AL</del>	<del>AL</del>	<del>AL</del>
46	4AL20IS059	Varsha A M	<del>AL</del>	<del>AL</del>	<del>AL</del>	<del>AL</del>
Absentees # :			N/I	01	01	01
Session Incharge Sign :			<del>AL</del>	<del>AL</del>	<del>AL</del>	<del>AL</del>

  
**H. O. D.**  
 Dept. Of Information Science & Engineering  
 Aiva's Institute of Engg. & Technology  
 Mijar, MOODBIDRI - 574 225





# **ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY**

A Unit of Alva's Education Foundation (R)

(Affiliated to Visvesvaraya Technological University, Belagavi.

Approved by AICTE, New Delhi & Recognized by Government of Karnataka)  
Shobhavana Campus, Mijar, Moodbidri- 574 225, Mangalore, D.K., Karnataka State.

(Accredited By NAAC with A+ grade)

## **DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**Event: Java Programming Training.**

**Resource Person: Dr. Mohideen Badhusha S**

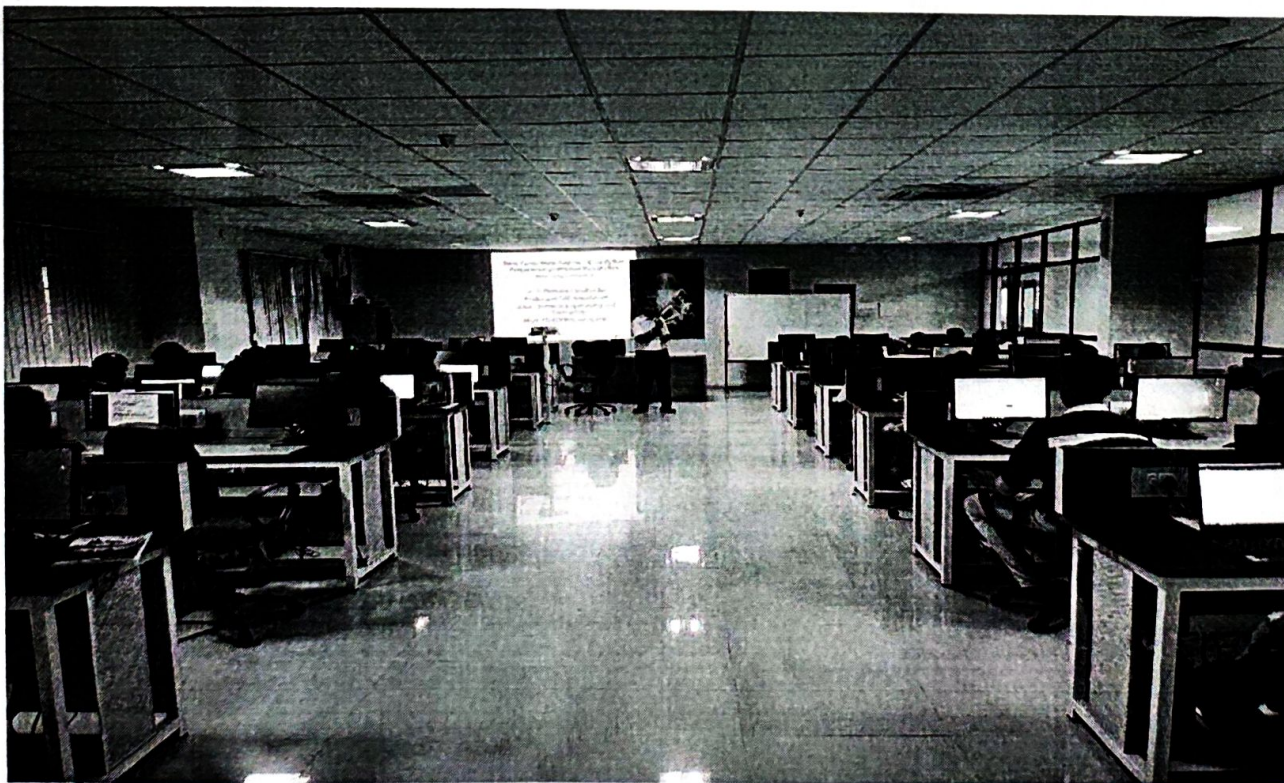
**Date: 18/08/2023 and 19/08/2023**

**Time: 9:00AM to 5:00PM**

**Venue: ISE Lab & Room Num 303, Main Block, AIET.**

A hands-on Java Programming training programme has been organized by Training and Placement cell for final year ISE students for placement by Dr.Mohideen Badhusha S on 18/08/2023in AIET campus

Dr. Mohideen Badhusha S provided in-depth coverage of various Java topics, starting with an introduction to Java and its features. He elaborated on the different types of Java applications and discussed abstract classes and interfaces with detailed example programs. Additionally, Dr. Mohideen explained declaration, implementation, and inheritance of interfaces, emphasizing their role in Java programming.







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## **DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

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Furthermore, he covered packages and their types, highlighting their significance in organizing and managing Java code. On another occasion, Dr. Mohideen focused on classes and objects, including object initialization methods and the usage of the "this" keyword. He also explained memory management, inheritance types, and method overloading in Java. Through comprehensive explanations and practical examples, Dr. Mohideen ensured that students gained a thorough understanding of these essential Java concepts and techniques.

### **Outcomes:**

- All major Java basics were revised for placement readiness.
- Students got to know, the way of solving the tricky java coding puzzles

A handwritten signature in black ink, appearing to read "Pradeep Nayak", written over a circular stamp.

Dept. Training Coordinator

Mr. Pradeep Nayak





# ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

SHOBHAVANA CAMPUS, MIJAR, MOODBIDRI - 574 225

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

BOOTCAMP TRAINING PHASE-2 : Java Programming

4th Year 2023-24

S.N	USN	NAME	18/08/2023		19/08/2023	
			FN	AN	FN	AN
1	4AL20IS001	Abhishek R Bhat	Abhishe	Abhishe	Abhishe	Abhishe
2	4AL20IS002	Abhishek S V	Abhishe	Abhishe	Abhishe	Abhishe
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4	4AL20IS004	Amruth P S	Amruth	Amruth	Amruth	AB
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6	4AL20IS007	Ashwini.M	Ashwini	Ashwini	Ashwini	Ashwini
7	4AL20IS008	B.S. Sumukha	B.S. Sumukha	B.S. Sumukha	B.S. Sumukha	B.S. Sumukha
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28	4AL20IS034	Nidhi N Shetty	Nidhi	Nidhi	Nidhi	Nidhi
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46	4AL20IS059	Varsha A M	<del>Varsha</del>	<del>Varsha</del>	<del>Varsha</del>	<del>Varsha</del>
Absentees # :			<del>Nil</del>	<del>Nil</del>	<del>01</del>	<del>01</del>
Session Incharge Sign :			<del>SR</del>	<del>SR</del>	<del>SR</del>	<del>SR</del>

*S. S. Shetty*  
H. O. D.

Dept. Of Information Science & Engineering  
Alva's Institute of Engg. & Technology  
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(Accredited By NAAC with A+ grade)

## **DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**Event: Java Programming Training.**

**Resource Person: Mr. Charles Antoni,**

**Date: 20/08/2023 - 21/08/2023**

**Time: 9:00AM to 5:00PM**

**Venue: ISE Lab & Room Num 303, Main Block, AIET.**

A hands-on Java Programming training programme has been organized by Training and Placement cell for final year ISE students for placement by Mr. Charles Antoni, on 20/08/2023 and 21/08/2023 in AIET campus.



Mr. Charles Antoni, in his advanced Java programming session, covered Servlets extensively, culminating in a mini project where students connected to Servlets. This project likely involved practical implementation, demonstrating how to establish connections with Servlets.

By engaging in this hands-on exercise, students gained practical insights into Servlet interaction, reinforcing their understanding of web architecture, Servlet deployment on servers like





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Apache Tomcat, URL structuring, and the hierarchy within Servlets. Such practical application enhances comprehension and prepares students for real-world web development scenarios, empowering them with valuable skills in advanced Java programming.

### **Outcomes:**

- All major Java basics and servlets were revised for placement readiness.
- Students got to know, the way of solving the tricky java coding puzzles and Mini Projects

A handwritten signature in black ink, appearing to be "Pradeep Nayak", written over a faint grid background.

Dept. Training Coordinator

Mr. Pradeep Nayak





# ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

SHOBHAVANA CAMPUS, MIJAR, MOODBIDRI - 574 225

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

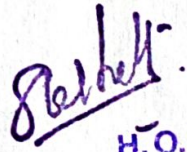
BOOTCAMP TRAINING PHASE-2 : Advanced Java Programming

4th Year 2023-24

S.N	USN	NAME	20/08/2023		21/08/2023	
			FN	AN	FN	AN
1	4AL20IS001	Abhishek R Bhat	Abhishek	Abhishek	Abhishek	Abhishek
2	4AL20IS002	Abhishek S V	Abhishek	Abhishek	Abhishek	Abhishek
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Absentees # :			01	04	01	01
Session Incharge Sign :			<del>AS</del>	<del>AS</del>	<del>AS</del>	<del>AS</del>

  
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 Aiva's Institute of Engg. & Technology  
 Mijar, MOODBIDRI - 574 225





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## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

**Event: Web Programming Training**

**Resource Person: Prof. Vidya & Mr. Prashanth Kumar**

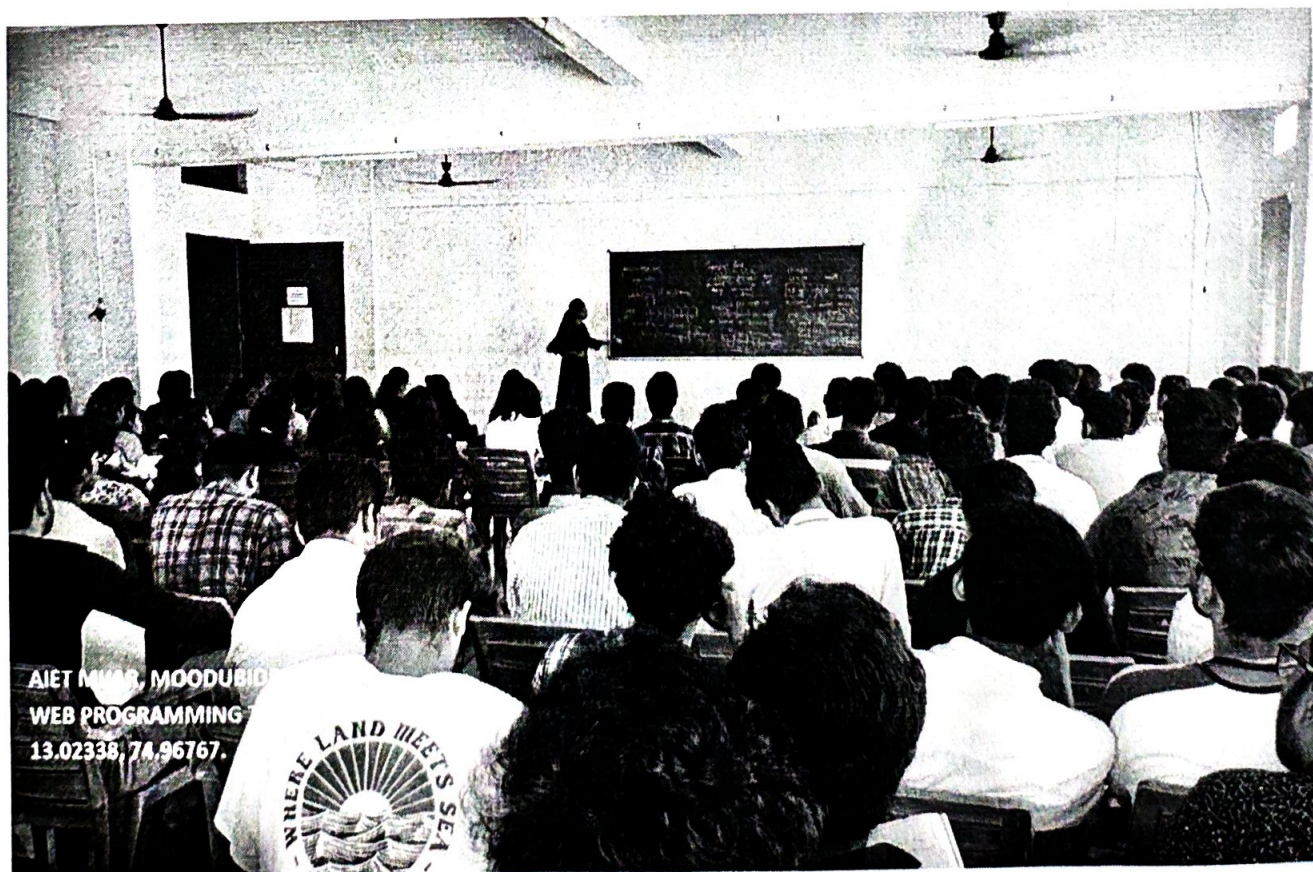
**Date: 16/08/2023 and 17/08/2023**

**Time: 9:00AM to 5:00PM**

**Venue: ISE Lab & Room Num 303, Main Block, AIET.**

A hands-on Java Programming training programme has been organized by Training and Placement cell for final year ISE students for placement by Prof.Vidya & Mr.Prashanth Kumar on 16/08/2023 and 17/08/2023 in AIET campus

Prof. Vidya and Mr. Prashanth Kumar conducted a comprehensive session on web programming, covering various essential topics. They began with an introduction to web technology, elucidating concepts such as the internet, networks, web development, browsers, web servers, and HTTP protocols.







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## **DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

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The session further delved into HTML, the backbone of web development, discussing its structure, tags, types, and attributes. Students learned how to apply these attributes effectively in creating web pages, including tables and lists. Practical examples and demonstrations were provided to illustrate the usage of attributes and the creation of structured content like tables and lists in HTML. Additionally, installation of appropriate text editors for web development and hands-on exercises were included, enabling students to write HTML code proficiently. By emphasizing both theoretical understanding and practical application, Prof. Vidya and Mr. Prashanth Kumar ensured that students gained a solid foundation in web programming, empowering them to create functional and visually appealing web pages.

### **Outcomes:**

- All major web basics were revised for placement readiness.
- Students got to know, the way of solving the tricky Web Programming

A handwritten signature in black ink, appearing to be "Pradeep", written over a circular stamp or seal.

Dept. Training Coordinator

Mr. Pradeep Nayak





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SHOBHAVANA CAMPUS, MIJAR, MOODBIDRI - 574 225

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

BOOTCAMP TRAINING PHASE-2 : Web Programming

4th Year 2023-24

S.N	USN	NAME	16/08/2023		17/08/2023	
			FN	AN	FN	AN
1	4AL20IS001	Abhishek R Bhat	Abhishek	Abhishek	Abhishek	Abhishek
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35	4AL20IS045	Prajaktha Shetty	Prajaktha	Prajaktha	Prajaktha	Prajaktha



36	4AL20IS046	Shramik S Shetty	<i>Sh</i>	<i>Sh</i>	<i>Sh</i>	<i>Sh</i>
37	4AL20IS048	Srushti.S.K	<i>Srushi</i>	<i>Srushi</i>	<i>Srushi</i>	<i>Srushi</i>
38	4AL20IS049	Sudeep.K	<i>Sudeep</i>	<i>Sudeep</i>	<i>Sudeep</i>	<i>Sudeep</i>
39	4AL20IS050	Sudheer	<i>Sudheer</i>	<i>Sudheer</i>	<i>Sudheer</i>	<i>Sudheer</i>
40	4AL20IS051	Sujan P S	<i>Sujan P S</i>	<i>Sujan P S</i>	<i>Sujan P S</i>	<i>Sujan P S</i>
41	4AL20IS052	Suraj S Ankolokhar	<i>Suraj</i>	<i>Suraj</i>	<i>Suraj</i>	<i>Suraj</i>
42	4AL20IS053	Sushma K N	<i>Sushma</i>	<i>Sushma</i>	<i>Sushma</i>	<i>Sushma</i>
43	4AL20IS054	Swetha S	<i>Swetha</i>	<i>Swetha</i>	<i>Swetha</i>	<i>Swetha</i>
44	4AL20IS056	Tejaswini G	<i>Tejaswini</i>	<i>Tejaswini</i>	<i>Tejaswini</i>	<i>Tejaswini</i>
45	4AL20IS057	Vaishali	<i>Vaishali</i>	<i>Vaishali</i>	<i>Vaishali</i>	<i>Vaishali</i>
46	4AL20IS059	Varsha A M	<i>Varsha</i>	<i>Varsha</i>	<i>Varsha</i>	<i>Varsha</i>
Absentees # :			<i>Nil</i>	<i>Nil</i>	<i>01</i>	<i>Nil</i>
Session Incharge Sign :			<i>DP</i>	<i>ma</i>	<i>DP</i>	<i>ma</i>

*Satish*  
H.O.D.

Dept. Of Information Science & Engineering  
Aiva's Institute of Engg. & Technology  
Mijar, MOODSIDRI - 574 225



**ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY**

SHOBHAVANA CAMPUS, MIJAR, MOODBIDRI - 574 225

**DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING**

BOOTCAMP TRAINING PHASE-2 : Web Programming.

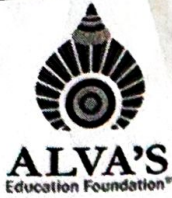
4th Year 2023-24

S.N	USN	NAME	20/08/2023		21/08/2023	
			FN	AN	FN	AN
1	4AL20IS006	Anson Dsoza	Anson	Anson	Anson	Anson
2	4AL20IS015	Likhith kumar	Likhith	Likhith	Likhith	Likhith
3	4AL20IS026	Mohammed Firoz	Mohammed	Mohammed	Mohammed	Mohammed
4	4AL20IS028	Mohan Raju V	Mohan	Mohan	Mohan	Mohan
5	4AL20IS038	Rahul R Poojary	Rahul	Rahul	Rahul	Rahul
6	4AL20IS039	Ravindra Reddy	Ravindra	Ravindra	Ravindra	Ravindra
7	4AL20IS040	Raviraj	Raviraj	Raviraj	Raviraj	Raviraj
8	4AL20IS044	Shashank Biradar	Shashank	Shashank	Shashank	Shashank
9	4AL20IS047	Shwetha R Sharma	Shwetha	Shwetha	Shwetha	Shwetha
10	4AL20IS055	Tejas R	Tejas	Tejas	Tejas	Tejas
11	4AL20IS058	Vandan M Shetty	Vandan	Vandan	Vandan	Vandan
Absentees # :			Nil	01	Nil	Nil
Session Incharge Sign :			[Signature]	[Signature]	[Signature]	[Signature]

*[Signature]*  
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# ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

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Shobhavana Campus, Mijar, Moodbidri- 574 225, Mangalore, D.K., Karnataka State.

Email: [principalaiet08@gmail.com](mailto:principalaiet08@gmail.com), web: [www.aiet.org.in](http://www.aiet.org.in)

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## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

**Event: TCS Company Specific Training**

**Trainers: Mithun, Harini, Dhanya, Prashanth by Face Prep Academy**

**Date: 25/08/2023-30/08/2023**

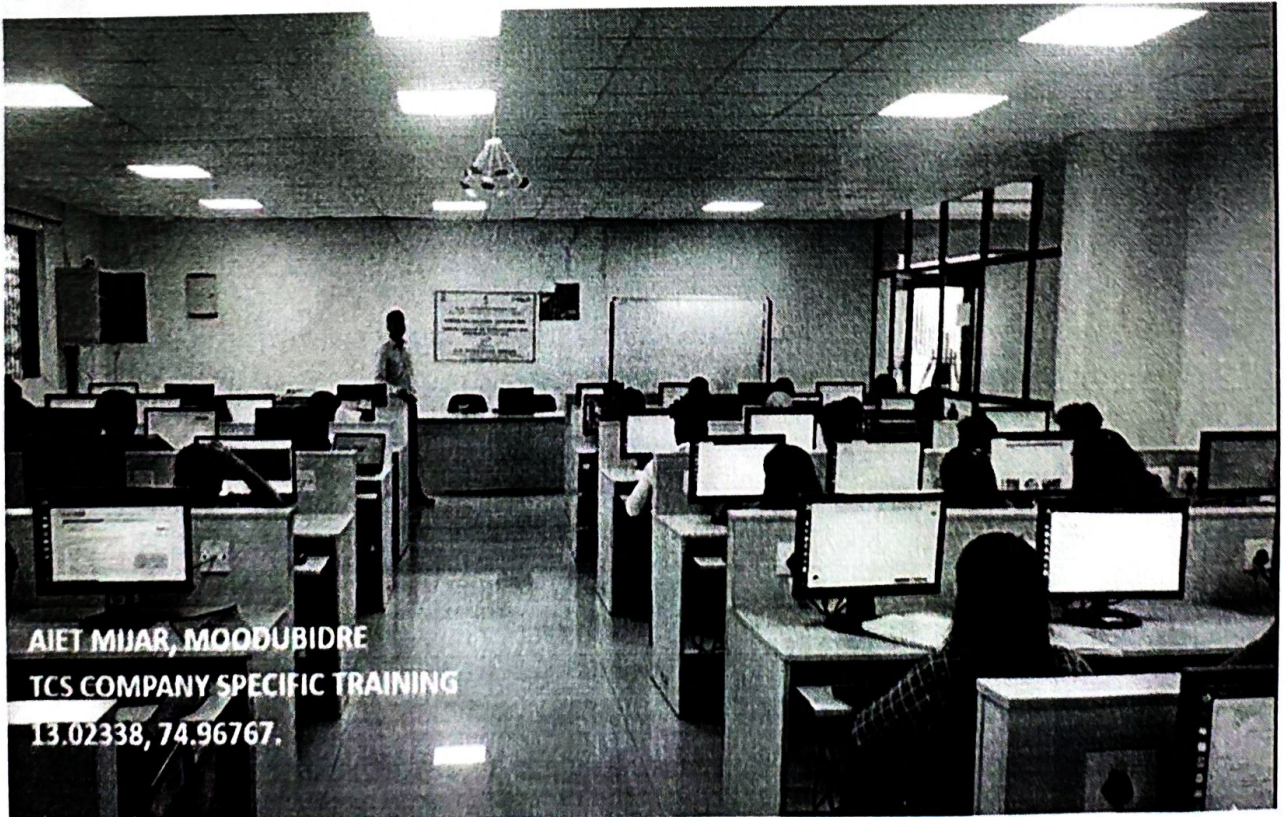
**Venue: ISE Lab and Classroom 303 Main Block AIET.**

An Aptitude and coding training programme has been organized by Training and Placement Cell for ISE students for placement readiness on Aptitude and coding for TCS Company by Face Prep Academy for two days that is 25/02/2022-30/02/2022 in AIET campus.

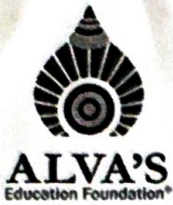
### **Day 1: Aptitude training by Mithun on 25/02/2023**

Solved 45+ problems on logical Reasoning with explanation. Logical reasoning problems can cover various topics such as syllogisms, logical puzzles, analogies, coding-decoding, seating arrangement problems, and more. To provide detailed explanations for specific problems, they teach the type of logical reasoning problem and the specific details of the problem itself.

Work And Time problems will focus on checking your aptitude through the concepts and questions that are on the concepts of the rate of work and efficiency of an individual, a group or any other entity that does the work. In this section, we will learn about the wonderful and twisted concepts of time and work and see how we can solve these questions within a minute.







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## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

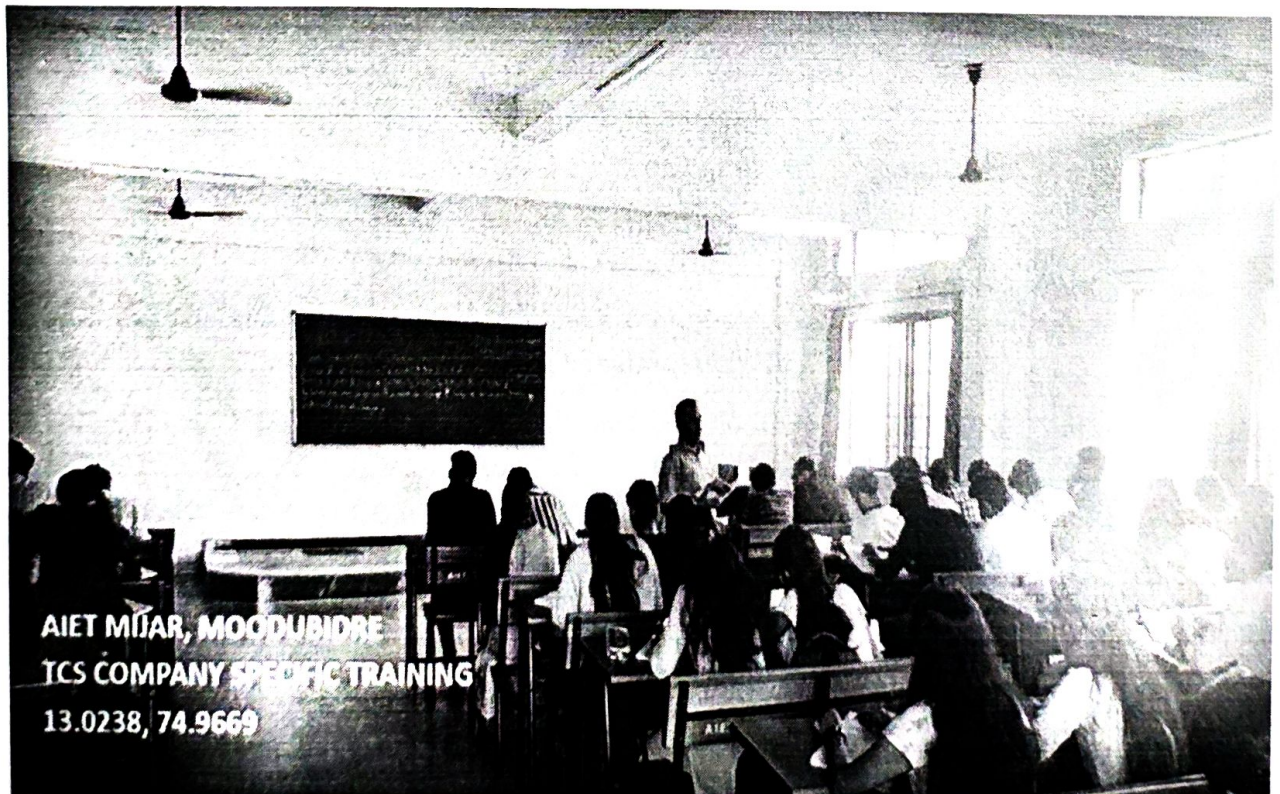
### Day 2: Aptitude training by Dhanya on 26/02/2023

Solved the past 6 to 7 year TCS interview aptitude questions. They covered most of the aptitude topics like Number System, HCF and LCM, Average, Arithmetic Progression, Simple Interest, Ratio and Proportion, Partnership, Mixture and allegation, Chain Rule, Time and Work, Races and Games, Logarithm Percentage, Ages, Pipes and Cistern, Time Speed and Distance, Problems on Trains, Boats and Streams, Circles Mensuration, Height and Distance.

Stream Boat problems test you on the concepts of relative motion. Imagine that you are in a boat going downstream. Will your upstream journey take the same time as your upstream journey in a boat? The answer is no. In the following sections, we will see the most important formulas that will allow you to solve the boat stream problems in less than a minute and with a perfect accuracy.

### Day 3: Aptitude training by Dhanya on 27/02/2023

Solved the 45+ TCS interview aptitude Question on topics like Numbers, Percentage, Profit and Loss, Average, Ratio and Proportion, Mixture and Allegation, Time and Work, Mensuration, Permutation and Combination, Averages, Partnerships, Stream Boat Problems, Pipes and Cisterns, Coding and Decoding.



Percentage is a way to express numbers in the base of a fraction of 100. Percentage forms a very important and vast part of the quantitative aptitude section. Here we will learn about the percent and





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## **DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

the percentage and the many techniques that we can use to solve the questions on calculating percentages.

### **Day 4: Aptitude training by Dhanya on 28/02/2023**

Solved the 30+ Ratio and proportion Problems, The ratio or the proportion of two quantities is an effective way to measure the relative magnitude of two quantities. The entire concept of ratio and proportion has been put in the form of simple words and solved examples in the below topics are:

- Proportion Of Quantities, Proportional (Third, Fourth and Mean), Comparison of Ratios, Duplicate Ratios, Variations, Ratios and Proportion Practice Questions.

In Partnerships, we study the business partners and their deals. The business started by two or more parties is often governed by an agreement or a contract. We call these business contracts the partnerships. Partnerships govern the division of profit and loss of a business. In the following sections, we have the different concepts that we require to study partnerships and deduce the scales of profit and loss.

### **Day 5: Coding and aptitude training by Harini on 29/02/2022**

Solved the TCS interview Coding Question in C based on topics like Basics of C Programming, Pointers, Memory Management, File Handling, Structures and Unions, Dynamic Data Structures, Recursion, Strings and String Handling, Multithreading, Embedded C Programming, C Standard Library Functions, Advanced C Programming Techniques.

Solved aptitude questions on topics like English Grammar, Parts of Speech Past, Present and Future Tenses, Solved the Question on the English Verbal, Passages and so on.

Verbal aptitude tests can be many different things: They can assess a person's ability to spell words correctly, use correct grammar, understand word meanings, understand word relationships, and/or interpret detailed written information.

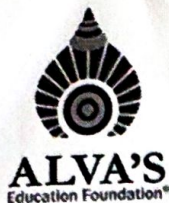
Critical Thinking, Deductive Reasoning, Grammar & Spelling, Homophones, Verbal Reasoning, Verbal Coherence & Cohesion, Vocabulary, Word Analogy, Word Relationships, Reading Comprehension these are the topics.

### **Day 6: Coding and aptitude training by Prashanth on 30/02/2022**

Solved the Aptitude Question on Date and Time, Mixtures and logical Reasoning, Work and Time problems will focus on checking your aptitude through the concepts and questions that are on the concepts of the rate of work and efficiency of an individual, a group or any other entity that does the work. In this section, we will learn about the wonderful and twisted concepts of time and work and see how we can solve these questions within a minute.

In the 6 days of the training programme, they have covered the major topics in Aptitude such as Abstract reasoning, Logical reasoning, Verbal, Quantitative, Pseudocodes, Computer





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### **DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

Fundamentals, Networking Concepts, etc. They also discussed the various shortcuts and tricks to solve different types of questions which will be helpful to clear initial round of placements.

They also covered topics in coding like as string, arrays, linked list, queues, etc and those sessions were hands-on. And the trainers gave hints for the technical and other rounds.

Entire sessions were interactive and students were given with various aptitude questions to solve in each of the topic covered. 57 students of ISE attended this training programme.

#### **Outcome:**

- All major aptitude and coding topics were revised for placement readiness.
- Students got to know, the way of solving the tricky aptitude questions as well as coding.

A handwritten signature in black ink, appearing to be "Pradeep", written over a faint circular stamp.

Dept. Training Coordinator

Mr. Pradeep Nayak



## ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

**SHOBHAVANA CAMPUS, MIJAR, MOODBIDRI – 574 225**

## DEPARTMENT OF INFORMATION SCIENCE &amp; ENGINEERING

## BOOTCAMP TRAINING PHASE-2 : Company Specific Training-FACE Academy

**4th Year 2023-24**

[illegible]



22	4AL20IS027	Mohammed Sufiyan	Sufi	Sufi	Sufi	Sufi	Sufi	Sufi	Sufi	Sufi	Sufi	Sufi	Sufi	Sufi
23	4AL20IS029	Maneesha N S	Maneesha	Maneesha	Maneesha	Maneesha	Maneesha	Maneesha	Maneesha	Maneesha	Maneesha	Maneesha	Maneesha	Maneesha
24	4AL20IS030	Moolya Gowthami	Moolya	Moolya	Moolya	AB	Moolya	Moolya	Moolya	Moolya	Moolya	Moolya	Moolya	Moolya
25	4AL20IS031	Nandhan M R	Nandhan	Nandhan	Nandhan	AB	Nandhan	Nandhan	Nandhan	Nandhan	Nandhan	Nandhan	Nandhan	Nandhan
26	4AL20IS032	Nayana T	Nayana	Nayana	Nayana	Nayana	Nayana	Nayana	Nayana	Nayana	Nayana	Nayana	Nayana	Nayana
27	4AL20IS033	Nesara S Gowda	Nesara	Nesara	Nesara	Nesara	Nesara	Nesara	Nesara	Nesara	Nesara	Nesara	Nesara	Nesara
28	4AL20IS034	Nidhi N Shetty	Nidhi	Nidhi	Nidhi	Nidhi	Nidhi	Nidhi	Nidhi	Nidhi	Nidhi	Nidhi	Nidhi	Nidhi
29	4AL20IS035	Poorvika	Poorvika	Poorvika	Poorvika	Poorvika	Poorvika	Poorvika	Poorvika	Poorvika	Poorvika	Poorvika	Poorvika	Poorvika
30	4AL20IS036	Prajwal Gowda M M	Prajwal	Prajwal	Prajwal	Prajwal	Prajwal	Prajwal	Prajwal	Prajwal	Prajwal	Prajwal	Prajwal	Prajwal
31	4AL20IS037	Prasad Achari	Prasad	Prasad	Prasad	Prasad	Prasad	Prasad	Prasad	Prasad	Prasad	Prasad	Prasad	Prasad
32	4AL20IS041	Yashavardhan S G	Yashavardhan	Yashavardhan	Yashavardhan	Yashavardhan	Yashavardhan	Yashavardhan	Yashavardhan	Yashavardhan	Yashavardhan	Yashavardhan	Yashavardhan	Yashavardhan
33	4AL20IS042	Sahana	Sahana	Sahana	Sahana	Sahana	Sahana	Sahana	Sahana	Sahana	Sahana	Sahana	Sahana	Sahana
34	4AL20IS043	Sharan	Sharan	AB	Sharan	Sharan	Sharan	Sharan	Sharan	Sharan	AB	Sharan	Sharan	Sharan
35	4AL20IS045	Prajaktha Shetty	Prajaktha	Prajaktha	Prajaktha	Prajaktha	Prajaktha	Prajaktha	Prajaktha	Prajaktha	AB	Prajaktha	Prajaktha	Prajaktha
36	4AL20IS046	Shramik S Shetty	Shramik	Shramik	Shramik	Shramik	Shramik	Shramik	Shramik	Shramik	Shramik	Shramik	Shramik	Shramik
37	4AL20IS048	Srushti.S.K	Srushti	Srushti	Srushti	Srushti	Srushti	Srushti	Srushti	Srushti	Srushti	Srushti	Srushti	Srushti
38	4AL20IS049	Sudeep.K	Sudeep	Sudeep	Sudeep	Sudeep	Sudeep	Sudeep	Sudeep	Sudeep	Sudeep	Sudeep	Sudeep	Sudeep
39	4AL20IS050	Sudheer	Sudheer	Sudheer	AB	Sudheer	Sudheer	Sudheer	Sudheer	Sudheer	Sudheer	Sudheer	Sudheer	Sudheer
40	4AL20IS051	Sujan P S	Sujan	Sujan	Sujan	Sujan	Sujan	Sujan	Sujan	Sujan	AB	AB	Sujan	Sujan
41	4AL20IS052	Suraj S Ankolokhar	Suraj	Suraj	Suraj	Suraj	Suraj	Suraj	Suraj	Suraj	Suraj	Suraj	Suraj	Suraj
42	4AL20IS053	Sushma K N	Sushma	Sushma	Sushma	Sushma	Sushma	Sushma	Sushma	Sushma	Sushma	Sushma	Sushma	Sushma
43	4AL20IS054	Swetha S	Swetha	Swetha	Swetha	Swetha	Swetha	Swetha	Swetha	Swetha	Swetha	Swetha	Swetha	Swetha
44	4AL20IS056	Tejaswini G	Tejaswini	Tejaswini	Tejaswini	Tejaswini	Tejaswini	Tejaswini	Tejaswini	Tejaswini	Tejaswini	Tejaswini	Tejaswini	Tejaswini
45	4AL20IS057	Vaishali	Vaishali	Vaishali	Vaishali	Vaishali	Vaishali	Vaishali	Vaishali	Vaishali	Vaishali	Vaishali	Vaishali	Vaishali
46	4AL20IS059	Varsha A M	Varsha	Varsha	Varsha	Varsha	Varsha	Varsha	Varsha	Varsha	Varsha	Varsha	Varsha	Varsha
Absentees # :			Nil	03	01	01	01	02	Nil	01	04	01	Nil	Nil
Session Incharge Sign :			[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]





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SHOBHAVANA CAMPUS, MIJAR, MOODBIDRI - 574 225

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

BOOTCAMP TRAINING PHASE-2 : Company Specific Training- FACE Academy

4th Year 2023-24

S.N	USN	NAME	25/08/2023		26/08/2023		27/08/2023		28/08/2023		29/08/2023		30/08/2023	
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1	4AL20IS006	Anson Dsoza	Anson	Anson	Anson	Anson	Anson	Anson	Anson	Anson	Anson	Anson	Anson	Anson
2	4AL20IS015	Likhith kumar	Likhith	Likhith	Likhith	Likhith	Likhith	Likhith	Likhith	Likhith	Likhith	Likhith	Likhith	Likhith
3	4AL20IS026	Mohammed Firoz	Firoz	Firoz	Firoz	Firoz	Firoz	Firoz	Firoz	Firoz	Firoz	Firoz	Firoz	Firoz
4	4AL20IS028	Mohan Raju V	Mohan	Mohan	Mohan	Mohan	Mohan	Mohan	Mohan	Mohan	Mohan	Mohan	Mohan	Mohan
5	4AL20IS038	Rahul R Poojary	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul
6	4AL20IS039	Ravindra Reddy	Ravindra	Ravindra	Ravindra	Ravindra	Ravindra	Ravindra	Ravindra	Ravindra	Ravindra	Ravindra	Ravindra	Ravindra
7	4AL20IS040	Raviraj	Raviraj	Raviraj	Raviraj	Raviraj	Raviraj	Raviraj	Raviraj	Raviraj	Raviraj	Raviraj	Raviraj	Raviraj
8	4AL20IS044	Shashank Biradar	Shashank	Shashank	Shashank	Shashank	Shashank	Shashank	Shashank	Shashank	Shashank	Shashank	Shashank	Shashank
9	4AL20IS047	Shwetha R Sharma	Shwetha	Shwetha	Shwetha	Shwetha	Shwetha	Shwetha	Shwetha	Shwetha	Shwetha	Shwetha	Shwetha	Shwetha
10	4AL20IS055	Tejas R	Tejas	Tejas	Tejas	Tejas	Tejas	Tejas	Tejas	Tejas	Tejas	Tejas	Tejas	Tejas
11	4AL20IS058	Vandan M Shetty	Vandan	Vandan	Vandan	Vandan	Vandan	Vandan	Vandan	Vandan	Vandan	Vandan	Vandan	Vandan
Absentees # :			Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	01	01	Nil	Nil
Session Incharge Sign :			[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]

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## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

**Event: Python Programming Fundamentals**

**Trainers: Mr. Shrikanth N G and Mr. Rizwan N Shaikh**

**Date: 14.08.2023 – 16.08.2023**

**Venue: SSCD Lab, Main Block AIET.**

A Python Programming Fundamentals training programme has been organized by the Training and Placement Cell for ISE students to enhance their foundational programming skills. The three-day program, conducted by Prof. Shrikanth, focused on equipping students with essential Python concepts and applications. The sessions, held from 14/08/2023 to 16/08/2023 at the SSCD Lab, Main Block, AIET, aimed to provide a comprehensive understanding of Python programming, preparing students for academic and professional challenges in software development and problem-solving. Placement Cell of AIET, conducted informative and engaging Python programming sessions, featuring the expertise of two of its distinguished faculty members, Mr. Shrikanth N G and Mr. Rizwan Sheik. These sessions provided students with a comprehensive understanding of Python, a highly versatile and widely used programming language. Mr. Shrikanth NG's session delved into the fundamental building blocks of Python, covering topics such as variables, data types, and essential syntax. On the other hand, Mr. Rizwan Sheik's session explored more Python concepts, including object-oriented programming and practical applications. Both sessions were met with enthusiasm by the students, who found the content informative and engaging.

### **Day 1: Introduction to Python Programming**

#### **Topics Covered:**

- Introduction to Python: Features, history, and applications.
- Setting up Python: Installation, IDEs, and environment setup.
- Basic syntax, variables, data types, and operators in Python.

#### **Key Concepts Discussed:**

- Understanding Python's versatility and simplicity.
- Basic programming constructs: variables, operators, and data types.

#### **Practical Exercises:**

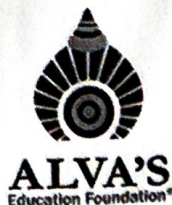
- Writing simple Python programs to perform arithmetic operations.
- Developing scripts for string manipulations.

### **Day 2: Control Structures, Loops, and Functions**

#### **Topics Covered:**

- Control structures: Conditional statements (if, else, elif).





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## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

- Loops: for, while, and nested loops.
- Functions: Definitions, parameters, and return values.

### Key Concepts Discussed:

- Creating dynamic programs using control structures.
- Modular programming with functions.

### Practical Exercises:

- Implementing decision-making processes in programs.
- Writing reusable functions for various computational tasks.



### Day 3: Libraries for Data Manipulation and Visualization

#### Topics Covered:

- Introduction to Python libraries: NumPy and Matplotlib.
- Data manipulation using NumPy arrays.
- Data visualization with Matplotlib: Line, bar, and scatter plots.

#### Key Concepts Discussed:

- How libraries enhance Python's capability for data analysis and visualization.
- Using NumPy for efficient mathematical computations.





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- Visualizing data trends using Matplotlib.

### **Practical Exercises:**

- Manipulating arrays using NumPy.
- Creating data visualizations using Matplotlib.

### **Outcome:**

Participants gained a comprehensive understanding of Python programming, starting with basics such as syntax, variables, and operators. They developed skills in using control structures, loops, and functions to create dynamic and modular scripts. Additionally, they explored Python libraries like NumPy and Matplotlib for data manipulation and visualization, preparing them for real-world applications and placement readiness.

A handwritten signature in black ink, appearing to be "Pradeep Nayak", written over a horizontal line.

Dept. Training Coordinator

Mr. Pradeep Nayak





# ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

SHOBHAVANA CAMPUS, MIJAR, MOODBIDRI - 574 225

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

BOOTCAMP TRAINING PHASE-2 : Python Programming Fundamentals

4th Year 2023-24

S.N	USN	NAME						
			FN	AN	FN	AN	FN	AN
1	4AL20IS006	Anson Dsoza	Anson	Anson	Anson	Anson	Anson	Anson
2	4AL20IS015	Likhith kumar	Likhith	Likhith	Likhith	Likhith	Likhith	Likhith
3	4AL20IS026	Mohammed Firoz	Firoz	Firoz	Firoz	Firoz	Firoz	Firoz
4	4AL20IS028	Mohan Raju V	Mohan	Mohan	Mohan	Mohan	Mohan	Mohan
5	4AL20IS038	Rahul R Poojary	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul
6	4AL20IS039	Ravindra Reddy	Ravindra	Ravindra	Ravindra	Ravindra	Ravindra	Ravindra
7	4AL20IS040	Raviraj	Raviraj	Raviraj	Raviraj	Raviraj	Raviraj	Raviraj
8	4AL20IS044	Shashank Biradar	Shashank	Shashank	Shashank	Shashank	Shashank	Shashank
9	4AL20IS047	Shwetha R Sharma	Shwetha	Shwetha	Shwetha	Shwetha	Shwetha	Shwetha
10	4AL20IS055	Tejas R	Tejas	Tejas	Tejas	Tejas	Tejas	Tejas
11	4AL20IS058	Vandan M Shetty	Vandan	Vandan	Vandan	Vandan	Vandan	Vandan
Absentees # :			Nil	Nil	Nil	Nil	Nil	Nil
Session Incharge Sign :			[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]

*[Signature]*  
H.O.D.  
Dept. Of Information Science & Engineering  
Alva's Institute of Engineering & Technology  
Mijar, MOODBIDRI - 574 225





# **ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY**

A Unit of Alva's Education Foundation (R)

(Affiliated to Visvesvaraya Technological University, Belagavi.

Approved by AICTE, New Delhi & Recognized by Government of Karnataka)  
Shobhavana Campus, Mijar, Moodbidri- 574 225, Mangalore, D.K., Karnataka State.

Email: [principalaiet08@gmail.com](mailto:principalaiet08@gmail.com), web: [www.aiet.org.in](http://www.aiet.org.in)

(Accredited By NAAC with A+ grade)

## **DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**Event: Advanced Python Programming**

**Trainers: Dr. Basavaraj Talawar, NITK Surathkal**

**Date: 17.08.2023 – 19.08.2023**

**Venue: SSCD Lab, Main Block AIET.**

An **Advanced Python Programming** training programme was organized by the Training and Placement Cell for ISE students to deepen their programming skills. This three-day session, conducted by Dr. Basavaraj Talawar from NITK Surathkal, was designed to equip students with advanced Python programming techniques and tools used in real-world applications. Held from **17/08/2023 to 19/08/2023** at the SSCD Lab, Main Block, AIET, the program provided in-depth knowledge and practical experience in Python's advanced features, including object-oriented programming, multi-threading, and data analysis. These sessions were tailored to meet the demands of modern software development and aimed at enhancing the students' readiness for placements and industry-level projects.

Another Session was Conducted by Dr. Basavaraj Talawar, NITK, Surathkal. In this session Pattern Matching using regular Expressions, Web Scrapping were thought. Through these sessions, students gained valuable insights and hands-on experience in Python programming, enhancing their coding skills and equipping them for the ever-evolving demands of the digital era.

### **Day 1: Advanced Python Concepts and Object-Oriented Programming**

#### **Topics Covered:**

- Review of Python basics for advanced understanding.
- Object-Oriented Programming (OOP) concepts: Classes, objects, inheritance, polymorphism, and encapsulation.
- Advanced data structures: Sets, dictionaries, and collections.

#### **Key Concepts Discussed:**

- How to implement and utilize object-oriented principles in Python.
- Advanced data structures for efficient data management.

#### **Practical Exercises:**

- Designing Python classes and creating reusable objects.
- Implementing inheritance and polymorphism in Python code.

### **Day 2: Python for Data Manipulation and Multi-threading**

#### **Topics Covered:**

- Data manipulation using libraries: Pandas and NumPy.



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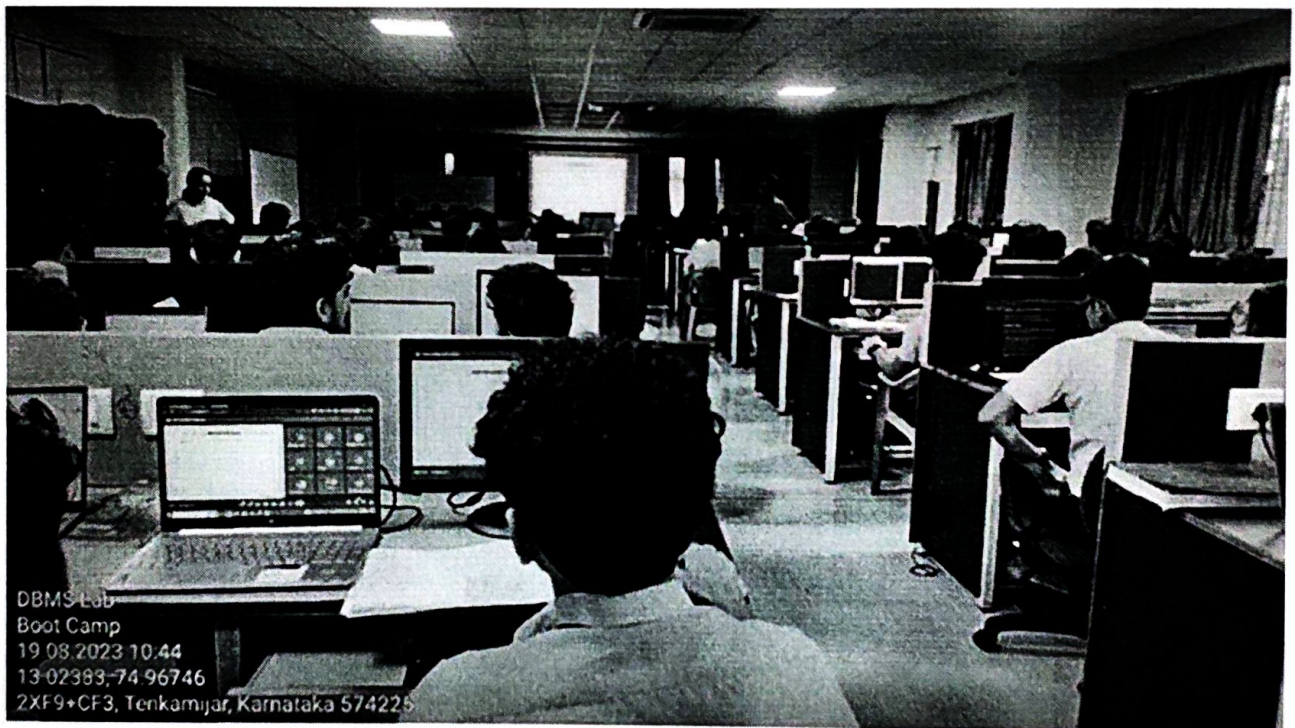
- Introduction to multi-threading and concurrent programming in Python.
- Working with large datasets and optimizing performance.

### Key Concepts Discussed:

- Efficiently handling large datasets with Pandas and NumPy.
- Using multi-threading to improve performance in Python applications.

### Practical Exercises:

- Analyzing and manipulating data using Pandas DataFrames.
- Implementing multi-threading techniques for concurrent execution.



### Day 3: Web Scraping, APIs, and Final Projects

#### Topics Covered:

- Web scraping using BeautifulSoup and Requests.
- Consuming REST APIs using Python.
- Final project: Integrating web scraping with APIs and creating a real-time application.

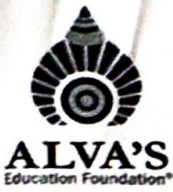
#### Key Concepts Discussed:

- How to scrape data from websites and work with RESTful APIs.
- Integrating different Python libraries to develop real-time applications. ➤

#### Practical Exercises:

- Building Python scripts for web scraping and API interaction.
- Developing a final project that incorporates all concepts learned during the course.





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## **DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

### **Outcome:**

Participants gained advanced knowledge of Python programming, including object-oriented principles, multi-threading, and data manipulation using libraries like Pandas and NumPy. They also explored web scraping and API integration, enabling them to develop real-world applications. By the end of the programme, students were equipped with the skills necessary for handling complex programming tasks, preparing them for placement and industry-level challenges.

A handwritten signature in black ink, appearing to be "Pradeep Nayak", written over a circular stamp.

Dept. Training Coordinator

Mr. Pradeep Nayak





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S.N	USN	NAME						
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2	4AL20IS015	Likhith kumar	<i>Likhith</i>	<i>Likhith</i>	<i>Likhith</i>	<i>Likhith</i>	<i>Likhith</i>	<i>Likhith</i>
3	4AL20IS026	Mohammed Firoz	<i>AR</i>	<i>Mohammed</i>	<i>Mohammed</i>	<i>Mohammed</i>	<i>Mohammed</i>	<i>Mohammed</i>
4	4AL20IS028	Mohan Raju V	<i>Mohan</i>	<i>Mohan</i>	<i>Mohan</i>	<i>Mohan</i>	<i>Mohan</i>	<i>Mohan</i>
5	4AL20IS038	Rahul R Poojary	<i>Rahul</i>	<i>Rahul</i>	<i>Rahul</i>	<i>Rahul</i>	<i>Rahul</i>	<i>Rahul</i>
6	4AL20IS039	Ravindra Reddy	<i>Ravi</i>	<i>Ravi</i>	<i>Ravi</i>	<i>Ravi</i>	<i>Ravi</i>	<i>Ravi</i>
7	4AL20IS040	Raviraj	<i>Ravi</i>	<i>Ravi</i>	<i>Ravi</i>	<i>Ravi</i>	<i>Ravi</i>	<i>Ravi</i>
8	4AL20IS044	Shashank Biradar	<i>Shashank</i>	<i>Shashank</i>	<i>Shashank</i>	<i>Shashank</i>	<i>Shashank</i>	<i>Shashank</i>
9	4AL20IS047	Shwetha R Sharma	<i>Shwetha</i>	<i>Shwetha</i>	<i>Shwetha</i>	<i>Shwetha</i>	<i>Shwetha</i>	<i>Shwetha</i>
10	4AL20IS055	Tejas R	<i>Tejas</i>	<i>Tejas</i>	<i>Tejas</i>	<i>Tejas</i>	<i>Tejas</i>	<i>Tejas</i>
11	4AL20IS058	Vandan M Shetty	<i>Vandan</i>	<i>Vandan</i>	<i>Vandan</i>	<i>Vandan</i>	<i>Vandan</i>	<i>Vandan</i>
Absentees # :			<i>01</i>	<i>Nil</i>	<i>Nil</i>	<i>Nil</i>	<i>Nil</i>	<i>Nil</i>
Session Incharge Sign :			<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

*[Signature]*  
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