

# Hindustan College of Science and Technology

Farah (Mathura)

Department of Information Technology

Date: 21 August 2022

## Circular

### Registration for Value-Added Course: "Algorithmic Problem-Solving: From Fundamentals to Applications (VACIT-004)"

Dear students,

We are delighted to announce a value-added course on "Algorithmic Problem-Solving: From Fundamentals to Applications" exclusively designed for our students. This course aims to equip you with the essential skills and knowledge required to excel in algorithmic thinking and problem-solving, which are fundamental to success in the field of Information Technology.

#### Course Details:

Course Name: Algorithmic Problem-Solving: From Fundamentals to Applications

Course Duration: 03 September 2022 to 24 December 2022 (32 Hrs)

Last Date of Registration: 02 September 2022

#### Registration:

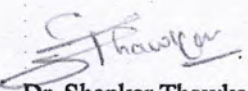
To participate in this enriching opportunity, you are required to register before 2nd September 2022. Please contact Mr. Deepti Mittal, Assistant Professor in the Department of Information Technology, who will oversee the registration process and provide you with further details.

Please note that this course is mandatory for all the students of 2<sup>nd</sup> year IT Department. We encourage all interested students to seize this chance to enhance your problem-solving acumen and strengthen your understanding of algorithms.

For any further information or clarification, please feel free to contact the undersigned.

Thank you.

Sincerely,

  
Dr. Shankar Thawkar

HOD, IT

Department of Information Technology

Hindustan College of Science & Technology

Farah, Mathura

Copy to:

1. Director office for kind information
2. All Deans
3. All HODs – for circulation among all concerned
4. Office Copy

  
Director  
Hindustan College of  
Science & Technology  
FARAH (MATHURA)

#### VISION OF THE DEPARTMENT

Information Technology undergraduate program empowers students with research and training-based education to become global technical leaders and entrepreneurs, creating positive societal impact.

#### MISSION OF THE DEPARTMENT

- Foster innovation, research, and entrepreneurship through real-world projects and industry collaborations.
- Develop ethical global leaders with theoretical and practical education, critical thinking, and social responsibility.
- Provide outcome-based education for holistic development, integrating technical skills with leadership and teamwork.





SHARDA  
GROUP

# HINDUSTAN COLLEGE OF SCIENCE AND TECHNOLOGY MATHURA

INVITES YOU FOR A  
VALUE ADDED COURSE  
ON

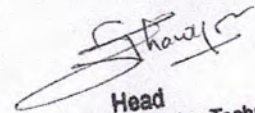
**ALGORITHMIC PROBLEM-SOLVING:  
FROM FUNDAMENTALS TO APPLICATIONS  
(VACIT-004)**

03<sup>rd</sup> September 2022 - 24<sup>th</sup> December 2022

Registration Date: 30 Aug 2022 - 02 Sep 2022

For Registration, Please contact:

Mrs. Deepti Mittal  
Assistant Professor, IT

  
Head  
Department of Information Technology  
Hindustan College of Science & Technology  
Farah, Mathura

DEPARTMENT OF INFORMATION TECHNOLOGY

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# ABOUT

## THE DEPARTMENT

Department of Information Technology was established in the year 1999 with an objective of imparting quality education in the field of Information Technology. Department of IT was accredited by National board of Accreditation (NBA) in 2006.

The department is located in a sprawling environment with a highly qualified and experienced faculty. The department works with the objective of addressing critical challenges faced by the Industry, society and the academia. Perhaps even more important is our unceasing commitment to our students, helping them to learn, grow, develop, and achieve their goals in their pursuit to excel in their professional career.

The department also have a student association QuBIT that provides a platform to future engineers to learn new technological innovations and also provide industry exposure to the students, by organizing workshops, seminars & other events.

# ABOUT

## THE PROGRAM

"Algorithmic Problem-Solving: From Fundamentals to Applications" is a value-added course that provides students with a comprehensive understanding of problem-solving techniques, fundamental algorithms, and their practical applications. Through hands-on exercises and real-world examples, students will develop the skills and knowledge necessary to analyze complex problems, design efficient algorithms, and implement them using appropriate data structures. This course equips students with the essential foundation to excel in computer science and related fields.

### Objectives

1. Develop Problem-Solving Skills: Enable students to acquire essential problem-solving skills.
2. Understand Fundamental Algorithms: Familiarize students with a wide range of fundamental algorithms. Students will gain proficiency in implementing and verifying algorithms.
3. Explore Factoring Methods: Introduce students to various factoring methods. Students will learn to apply these methods to solve mathematical problems efficiently.
4. Master Array Techniques: Equip students with the knowledge of array data structures and techniques. These skills are essential for handling large sets of data effectively.

# COURSE

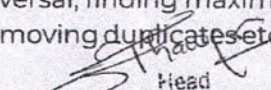
## OUTCOMES

**CO-1:** Apply problem solving techniques to analyze and solve complex problems in computer science and related domains.

**CO-2:** Implement and verify algorithms to solve various computational tasks, including mathematical calculations, data manipulation, and sequence generation.

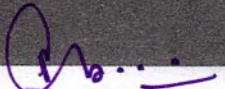
**CO-3:** Utilize factoring methods to efficiently solve mathematical problems, such as finding prime factors, generating pseudo-random numbers, and calculating Fibonacci numbers.

**CO-4:** Utilize array techniques to manipulate and process data effectively, including array reversal, finding maximum values, removing duplicates etc.

  
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# CO-PO-PSO MAPPING

## Algorithmic Problem-Solving: From Fundamentals to Applications (VACIT-004)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO-1	3	3	2	2	-	2	-	2	3	-	-	3	2	3	-
CO-2	3	3	3	3	-	3	-	2	3	-	-	3	2	3	-
CO-3	2	2	3	2	-	3	-	1	2	-	-	3	2	3	-
CO-4	2	2	1	3	-	2	-	3	2	-	-	3	2	3	-
Avg	2.50	2.50	2.25	2.50	0.00	2.50	0.00	2.00	2.50	0.00	0.00	3.00	2.00	3.00	0.00

### PSO1:

Equip students with the latest IT knowledge and skills to tackle real-world challenges.

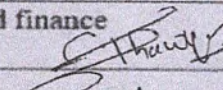
### PSO2:

Foster leadership, critical thinking, problem-solving, and communication skills for IT careers.

### PSO3:

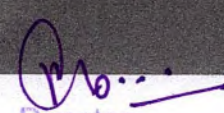
Encourage entrepreneurship and innovation through research, start-up projects, industry collaborations, and business skills.

PO1	Engineering Knowledge
PO2	Problem Analysis
PO3	Design/development of solutions
PO4	Conduct investigations of complex Problems
PO5	Modern tool usage
PO6	The engineer and society
PO7	Environment and sustainability
PO8	Ethics
PO9	Individual and team work
PO10	Communication
PO11	Project management and finance
PO12	Life-long learning

  
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CONVENOR



**Dr. Shankar Thawkar**  
Associate Professor  
HOD, IT



**Mrs. Deepti Mittal**  
Assistant Professor  
Dy. HOD, IT

CO-CONVENOR

VAC COORDINATOR



**Mr. Ajay Raj Parashar**  
Assistant Professor  
IT Department

A handwritten signature in black ink, appearing to read 'S. Prasad'.

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Director  
Hindustan College of  
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## SPEAKERS



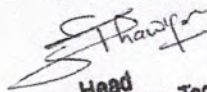
**Dr. Shankar Thawkar**  
Associate Professor  
HOD, IT



**Mr. Ajay Raj Parashar**  
Assistant Professor  
IT Department

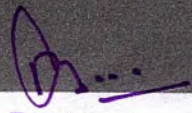


**Mrs. Deepti Mittal**  
Assistant Professor  
Dy. HOD, IT

  
Head  
Department of Information Technology  
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# COURSE OUTLINE

## Algorithmic Problem-Solving: From Fundamentals to Applications (VACIT-004)

### Module 1: Introduction to Computer Problem-Solving

- Overview of problem-solving techniques in computer science, emphasizing their importance in software development.
- Top-down design approach for breaking down complex problems into manageable components.
- Introduction to algorithm implementation, program verification, and analyzing algorithm efficiency.

### Module 2: Fundamental Algorithms

- Various fundamental algorithms, including exchanging values of variables, summing a set of numbers, computing factorials, and generating the Fibonacci sequence.
- Algorithms for sine function computation, reversing digits of an integer, and base conversion.

### Module 3: Factoring Methods

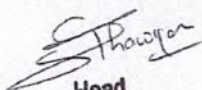
- Algorithms for finding the square root of a number, smallest divisor of an integer, and greatest common divisor of two integers.
- Generating prime numbers, computing prime factors, and generating pseudo-random numbers.
- Algorithm for raising a number to a large power and computing the nth Fibonacci number.

### Module 4: Array Techniques

- Introduction to array data structure and its applications.
- Array order reversal, counting, and finding the maximum number in a set using arrays.
- Removing duplicates from an ordered array and partitioning an array.
- Finding the kth smallest element and the longest monotone subsequence in an array.

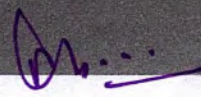
### Textbook/References:

- How to Solve it by computer, R.J. Dromey

  
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# LECTURE PLAN

## Algorithmic Problem-Solving: From Fundamentals to Applications (VACIT-004)

### Unit 1: Introduction to Computer Problem-Solving

- Lecture 1: Overview of Problem Solving in Computer Science
- Lecture 2: The Problem-Solving Aspect and Top-Down Design
- Lecture 3: Algorithm Implementation and Program Verification
- Lecture 4: Efficiency of Algorithms and Performance Analysis
- Lecture 5: Introduction to Algorithm Analysis
- Lecture 6: Time Complexity Analysis
- Lecture 7: Space Complexity Analysis
- Lecture 8: Review and Recap of Unit 1

### Unit 2: Fundamental Algorithms

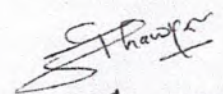
- Lecture 9: Exchanging the Values of Two Variables
- Lecture 10: Counting Elements in a Set
- Lecture 11: Summation of a Set of Numbers
- Lecture 12: Factorial Computation
- Lecture 13: Sine Function Computation
- Lecture 14: Generation of the Fibonacci Sequence
- Lecture 15: Reversing the Digits of an Integer
- Lecture 16: Base Conversion and Character to Number Conversion

### Unit 3: Factoring Methods

- Lecture 17: Finding the Square Root of a Number
- Lecture 18: Finding the Smallest Divisor of an Integer
- Lecture 19: Finding the Greatest Common Divisor of Two Integers
- Lecture 20: Generating Prime Numbers
- Lecture 21: Computing the Prime Factors of an Integer
- Lecture 22: Generation of Pseudo-random Numbers
- Lecture 23: Raising a Number to a Large Power
- Lecture 24: Computing the nth Fibonacci Number

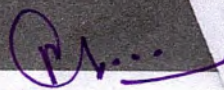
### Unit 4: Array Techniques

- Lecture 25: Introduction to Array Data Structure and Applications
- Lecture 26: Array Order Reversal
- Lecture 27: Array Counting or Programming
- Lecture 28: Finding the Maximum Number in a Set using Arrays
- Lecture 29: Removal of Duplicates from an Ordered Array
- Lecture 30: Partitioning an Array
- Lecture 31: Finding the kth Smallest Element in an Array
- Lecture 32: Finding the Longest Monotone Subsequence in an Array

  
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**Department of Information Technology**

**Value Added Course - Registration Form**

**VACIT- 004- Algorithmic Program Solving: From Fundamentals to Applications**

**Session 2022- 2023**

From: 03/09/2022 - 24/12/2022

S.N.	Roll No.	Name of the Student	Department	Semester	Signature of Student
1	2100640130002	Adarsh Gautam	IT	3rd	<i>Adarsh</i>
2	2100640130003	Aditya Pratap Singh	IT	3rd	<i>Aditya</i>
3	2100640130004	Aditya Rajpal	IT	3rd	<i>Aditya</i>
4	2100640130006	Akshit	IT	3rd	<i>AKSHIT</i>
5	2100640130007	Aman Chaudhary	IT	3rd	<i>Aman</i>
6	2100640130008	Ananya Dubey	IT	3rd	<i>Ananya</i>
7	2100640130010	Ankit Arora	IT	3rd	<i>Ankit</i>
8	2100640130011	Ankit Gautam	IT	3rd	<i>ANKIT GAUTAM</i>
9	2100640130014	Astha	IT	3rd	<i>Astha</i>
10	2100640130017	Bishakha Kumari Shaw	IT	3rd	<i>Bishakha</i>
11	2100640130019	Devesh Kumar	IT	3rd	<i>Devesh</i>
12	2100640130020	Dheeraj Yadav	IT	3rd	<i>Dheeraj</i>
13	2100640130021	Dhwani Agarwal	IT	3rd	<i>Dhwani Agarwal</i>
14	2100640130023	Diya Gupta	IT	3rd	<i>Diya Gupta</i>
15	2100640130024	Gaurav Raj	IT	3rd	<i>Gaurav Raj</i>
16	2100640130025	Govind Tyagi	IT	3rd	<i>Govind Tyagi</i>
17	2100640130026	Harsh Sharma	IT	3rd	<i>Harsh</i>
18	2100640130027	Harsh Tripathi	IT	3rd	<i>Harsh</i>
19	2100640130028	Harshul Chawla	IT	3rd	<i>Harshul</i>
20	2100640130030	Krati Maheshwari	IT	3rd	<i>Krati</i>
21	2100640130034	Nikhil Rathore	IT	3rd	<i>Nikhil</i>

*[Signature]*  
**Head**  
 Department of Information Technology  
 Hindustan College of Science & Technology  
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*[Signature]*

*[Signature]*  
**Director**  
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22	2100640130035	Nikunj Maheshwari	IT	3rd	<del>Nikunj</del>
23	2100640130036	Nishant Dixit	IT	3rd	Nishant
24	2100640130037	Nishkarsh Rathore	IT	3rd	Nishkarsh Rathore
25	2100640130039	Palak Sharma	IT	3rd	Palak Sharma
26	2100640130041	Parth Singh Sikarwar	IT	3rd	Parth Singh
27	2100640130042	Prashant Pal Singh	IT	3rd	Prashant Pal Singh
28	2100640130043	Prashant Upreti	IT	3rd	Prashant Upreti
29	2100640130044	Prateek Chaudhary	IT	3rd	Prateek Chaudhary
30	2100640130046	Priyanshi Gupta	IT	3rd	Priyanshi Gupta
31	2100640130048	Priyanshu Verma	IT	3rd	Priyanshu Verma
32	2100640130049	Rohit Kumar Sharma	IT	3rd	Rohit Kumar Sharma
33	2100640130050	Sachin Gautam	IT	3rd	Sachin Gautam
34	2100640130051	Sahil Ali	IT	3rd	Sahil Ali
35	2100640130052	Sakar Talwar	IT	3rd	Sakar Talwar
36	2100640130053	Satyam Singh	IT	3rd	Satyam Singh
37	2100640130054	Shivani	IT	3rd	Shivani
38	2100640130056	Suryansh Singh	IT	3rd	Suryansh Singh
39	2100640130057	Udit Kukreti	IT	3rd	Udit Kukreti
40	2100640130058	Vikash Solanki	IT	3rd	Vikash Solanki

HOD-IT

*S. Shrivastava*  
Head

Department of Information Technology  
Hindustan College of Science & Technology  
Farah, Mathura

*[Signature]*  
Program Coordinator

*[Signature]*  
Director  
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Department of Information Technology

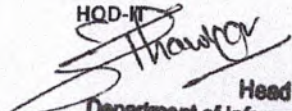
Value Added Course - Registration Form

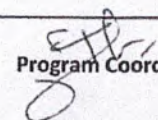
VACIT- 004- Algorithmic Program Solving: From Fundamentals to Applications

Session 2022- 2023

From:

S.N.	Roll No.	Name of the Student	Department	Semester	Signature of Student
1.		Prateek Mudgal	IT	3 <sup>rd</sup>	Prateek
2.		Priyanshi chandhary	IT	3 <sup>rd</sup>	Priyanshi
3.		Shivam Sorot	IT	3 <sup>rd</sup>	Shivam Sorot
4.		Devhishi	IT	3 <sup>rd</sup>	-
5.		Kushagra Kulshrestha	IT	3 <sup>rd</sup>	Kush
6.		Mohit Sharma	IT	3 <sup>rd</sup>	Mohit
7.		Gagandeep Bajhel	IT	3 <sup>rd</sup>	Gagan
8.		Sudhanshu Vaidhan	IT	3 <sup>rd</sup>	Sudhanshu
9.					
			(47)		

HQD-IT  
  
 Head  
 Department of Information Technology  
 Hindustan College of Science & Technology  
 Farah Mathura

  
 Program Coordinator

  
 Director  
 Hindustan College of  
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**Department of Information Technology**  
**VACIT- 004- Algorithmic Program Solving: From Fundamentals to Applications**  
**Session: 2022-2023**  
**Session Wise Attendance Sheet**

S.N.	Roll No.	Name of the Student	Attendance															
			3/9	10/9	17/9	24/9	01/10	8/10	15/10	22/10	5/11	12/11	19/11	26/11	3/12	10/12	17/12	24/12
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	2100640130002	Adarsh Gautam	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
2	2100640130003	Aditya Pratap Singh	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
3	2100640130004	Aditya Rajpal	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
4	2100640130006	Akshit	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
5	2100640130007	Aman Chaudhary	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
6	2100640130008	Ananya Dubey	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
7	2100640130010	Ankit Arora	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
8	2100640130011	Ankit Gautam	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
9	2100640130014	Astha	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
10	2100640130017	Bishakha Kumari Shaw	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
11	2100640130019	Devesh Kumar	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
12	2100640130020	Dheeraj Yadav																
13	2100640130021	Dhwani Agarwal	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
14	2100640130023	Diya Gupta	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
15	2100640130024	Gaurav Raj	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
16	2100640130025	Govind Tyagi	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
17	2100640130026	Harsh Sharma	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
18	2100640130027	Harsh Tripathi	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
19	2100640130028	Harshul Chawla	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
20	2100640130030	Krati Maheshwari	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
21	2100640130034	Nikhil Rathore	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
22	2100640130035	Nikunj Maheshwari	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
23	2100640130036	Nishant Dixit	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
24	2100640130037	Nishkarsh Rathore	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
25	2100640130039	Palak Sharma	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
26	2100640130041	Parth Singh Sikarwar	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
27	2100640130042	Prashant Pal Singh	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
28	2100640130043	Prashant Upreti	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
29	2100640130044	Prateek Chaudhary	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A

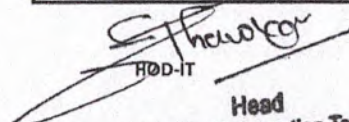
Head  
 Department of Information Technology  
 Hindustan College of Science & Technology  
 Farah Mathura

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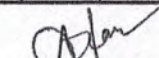
Director  
 Hindustan College of  
 Science & Technology  
 FARAH (MATHURA)



30	2100640130046	Priyanshi Gupta	Priyanshi	Priyanshi	A	Priyanshi	Priyanshi	Priyanshi	Priyanshi	Priyanshi	Priyanshi	Priyanshi	Priyanshi	Priyanshi	Priyanshi	Priyanshi	Priyanshi	Priyanshi
31	2100640130048	Priyanshu Verma	(A) Priyanshu	Priyanshu	Priyanshu	Priyanshu	Priyanshu	Priyanshu	(A) Priyanshu	Priyanshu	Priyanshu	Priyanshu	Priyanshu	(A) Priyanshu	Priyanshu	Priyanshu	Priyanshu	(A) Priyanshu
32	2100640130049	Rohit Kumar Sharma	Rohit	Rohit	Rohit	(A) Rohit	Rohit	Rohit	Rohit	Rohit	(A) Rohit	Rohit	Rohit	Rohit	Rohit	Rohit	Rohit	Rohit
33	2100640130050	Sachin Gautam	Sachin	Sachin	Sachin	Sachin	Sachin	A Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin
34	2100640130051	Sahil Ali	Sahil	Sahil	(A) Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil
35	2100640130052	Sakar Talwar	Sakar	Sakar	Sakar	Sakar	Sakar	Sakar	(A) Sakar	Sakar	Sakar	Sakar	Sakar	Sakar	Sakar	Sakar	Sakar	Sakar
36	2100640130053	Satyam Singh	Satyam	Satyam	Satyam	Satyam	Satyam	Satyam	Satyam	Satyam	Satyam	Satyam	Satyam	Satyam	Satyam	Satyam	Satyam	Satyam
37	2100640130054	Shivani	Shivani	Shivani	(A) Shivani	Shivani	Shivani	Shivani	(A) Shivani	Shivani	Shivani	Shivani	Shivani	Shivani	Shivani	Shivani	Shivani	Shivani
38	2100640130056	Suryansh Singh	Suryansh	(A) Suryansh	Suryansh	Suryansh	Suryansh	(A) Suryansh	Suryansh	Suryansh	Suryansh	(A) Suryansh	Suryansh	Suryansh	Suryansh	Suryansh	Suryansh	Suryansh
39	2100640130057	Udit Kukreti	Udit	Udit	Udit	(A) Udit	Udit	Udit	Udit	Udit	Udit	Udit	Udit	Udit	Udit	Udit	Udit	Udit
40	2100640130058	Vikash Solanki	Vikash	Vikash	Vikash	Vikash	Vikash	Vikash	Vikash	(A) Vikash	Vikash	Vikash	Vikash	Vikash	Vikash	Vikash	Vikash	Vikash
Total Attendance																		
Attendance %																		

  
 HOD-IT  
 Head  
 Department of Information Technology  
 Hindustan College of Science & Technology

Total Lectures :  $02 \times 15 = (30) + 2 = (32)$   
 ;  $02 \times 16 = (32)$

  
 Program Coordinator

  
 Director  
 Hindustan College of  
 Science & Technology  
 FARAH (MATHURA)



**HINDUSTAN COLLEGE OF SCIENCE & TECHNOLOGY, FARAH - MATHURA**  
**Department of Information Technology**  
**VACIT- 004- Algorithmic Program Solving: From Fundamentals to Applications**  
**Session: 2022-2023**  
**Session Wise Attendance Sheet**

S.N.	Roll No.	Name of the Student	Attendance															
			3/9	10/9	17/9	24/9	1/10	8/10	15/10	22/10	5/11	12/11	19/11	26/11	3/12	10/12	17/12	24/12
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1.		Prateek Mural	-	Prateek	Prateek	Prateek	Prateek	Prateek	Prateek	(A)	Prateek	Prateek	Prateek	Prateek	Prateek	Prateek	Prateek	Prateek
2.		Priyanshi Chaudhary	-	Priyanshi	Priyanshi	Priyanshi	Priyanshi	Priyanshi	Priyanshi	Priyanshi	Priyanshi	Priyanshi	Priyanshi	Priyanshi	Priyanshi	Priyanshi	Priyanshi	Priyanshi
3.		Shivam SoroT	-	Shivam	Shivam	(A)	Shivam	Shivam	Shivam	Shivam	Shivam	Shivam	(A)	Shivam	Shivam	Shivam	Shivam	Shivam
4.		Devnishi	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.		Kushagra Kulkarni	-	-	-	-	Kushi	Kushi	Kushi	(A)	Kushi	Kushi	Kushi	Kushi	Kushi	Kushi	Kushi	Kushi
6.		Mohit Sharma	-	-	-	-	mohit	mohit	mohit	mohit	mohit	mohit	(A)	mohit	mohit	mohit	mohit	(A)
7.		Gayandeep Bajhel	-	-	-	-	-	-	Ragun	Ragun	Ragun	Ragun	Ragun	Ragun	Ragun	(A)	Ragun	Ragun
8.		Sudanshu Vaikhar	-	-	-	-	-	-	-	-	-	-	Sudh	Sudh	Sudh	Sudh	Sudh	Sudh
Total Attendance																		
Attendance %																		

47

Total Lectures : 02 X 16 = 32

*S. Thawar*  
 HOD-IT Head  
 Department of Information Technology  
 Hindustan College of Science & Technology  
 Farah, Mathura

*Man*  
 Program Coordinator

*Dr. ...*  
 Director  
 Hindustan College of  
 Science & Technology  
 FARAH (MATHURA)



**HINDUSTAN COLLEGE OF SCIENCE & TECHNOLOGY, FARAH, MATHURA**  
**DEPARTMENT OF INFORMATION TECHNOLOGY**

**CLASS TIME TABLE FOR ODD SEMESTER 2022-23**

SESSION: 2022-23  
 YEAR/SEM: II/ 3 IT-A

W.E.F. 10/11/22  
 ROOM NO: 221-A

CLASS TEACHER: MR. VIBHU SHARMA  
 COUNSELORS: MR. VIBHU SHARMA(A1)  
 DR. SANJEEV KUMAR OJHA (A2)

Day \ Time	I	II	III	IV	1:00-01:30	V	VI	VII	VIII
	09:40-10:30	10:30-11:20	11:20-12:10	12:10-01:00		01:30-02:20	02:20-03:10	03:10-04:00	04:00-04:50
MONDAY	DS	COA	DE	DSTL		TC	CSS	COA	DS(T) (A1) DE(T) (A2)
TUESDAY	DSTL	PDP		TC		CO LAB (A1) RNO.321 IIT LAB (A2)	COA	CSS	
WEDNESDAY	DE	DS	TC	DS(T)(A2) DE(T)(A1)		PDP	COA(T) (A1) DSTL (T) (A2)	LIBRARY	
THURSDAY	DSTL	COA	DE	DS		CO LAB (A2) RNO.321 DS LAB (A1)	DSTL LAB (A2) LAB#5 IIT LAB (A1)		
FRIDAY	DS	CSS	DSTL	DSTL(T)(A1) COA(T)(A2)		TC	DE	DS LAB(A2) Lab#6 DSTL LAB(A1) Lab#5	
SATURDAY	VALUE ADDED COURSE (VACIT#004)								
	Algorithmic Problem Solving:from fundamentals to Applications								

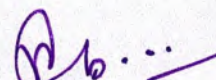
		Class Room No		
Subject Code	Name of the Subject	Lecture	Tutorial (A)	Name of the Faculty
KOE-039	DIGITAL ELECTRONICS	221-A		MRS. RUPALI MAHAJAN
KAS-301	TECHNICAL COMMUNICATION (TC)			DR. MAMTA SHARMA
KCS-301	DATA STRUCTURE (DS)			MR. AJAY PARASHAR
KCS-302	(COA)			MR. VIBHU SHARMA
KCS-303	DISCRETE STRUCTURE & THEORY OF LOGIC			MRS. DEEPTI MITTAL
KNC-301	COMPUTER SYSTEM SECURITY(CSS)			DR. SANJEEV KUMAR OJHA

		Practical Room No.	
Lab Code	Name of the Lab	Lab No (A)	Name of the Faculty
KCS-351	DS LAB	Lab #6	MR. AJAY PARASHAR
KCS-352	CO LAB	R NO:321	MR. VIBHU SHARMA
KCS-353	DSTL LAB	Lab #5	MRS. DEEPTI MITTAL
KCS-354	INTERNSHIP (IIT LAB)	R NO:221-A	DR. SANJEEV KUMAR OJHA
VACIT#004	VALUE ADDED COURSE (Algorithmic Problem Solving:from fundamentals to Applications)	LAB#06	DR. SHANKAR THAWKAR/ MR. AJAY PARASHAR

(Mrs. Deepti Mittal)  
 TT/IC, IT Dept.

(Dr. Shankar Thawkar)  
 HOD, IT Dept.  
 Head

Department of Information Technology  
 Hindustan College of Science & Technology  
 Farah, Mathura

  
 Director  
 Hindustan College of  
 Science & Technology  
 FARAH (MATHURA)





**HINDUSTAN**  
College of Science and Technology  
Farah, Mathura

**CERTIFICATE OF COMPLETION**  
**Department of Information Technology**  
Academic Session 2022-23

This is to certify that Mr. Harshul Chawla, Roll No. 2100640130028  
of Course B. Tech. Information Technology, III Semester  
has successfully completed 32 hours Value Added Course titled  
“ALGORITHMIC PROBLEM-SOLVING: FROM FUNDAMENTALS TO  
APPLICATIONS” (Course Code: VACIT-004).

**Dr. Shankar Thawkar**  
Head of Department

**Mr. Ajay Raj Parashar**  
Course Coordinator

**Mrs. Deepti Mittal**  
Course Coordinator

**Dr. R. K. Upadhyay**  
Director

Director  
Hindustan College of  
Science & Technology  
FARAH (MATHURA)





**HINDUSTAN**  
College of Science and Technology  
Farah, Mathura

**CERTIFICATE OF COMPLETION**  
**Department of Information Technology**

Academic Session 2022-23

This is to certify that Mr. Adarsh Gautam, Roll No. 2100640130002  
of Course B. Tech. Information Technology, III Semester  
has successfully completed 32 hours Value Added Course titled  
“ALGORITHMIC PROBLEM-SOLVING: FROM FUNDAMENTALS TO  
APPLICATIONS” (Course Code: VACIT-004).

**Dr. Shankar Thawkar**  
Head of Department

**Mr. Ajay Raj Parashar**  
Course Coordinator

**Mrs. Deepti Mittal**  
Course Coordinator

**Dr. R. K. Upadhyay**  
Director

Director  
Hindustan College of  
Science & Technology  
FARAH (MATHURA)





**HINDUSTAN**  
College of Science and Technology  
Farah, Mathura

**CERTIFICATE OF COMPLETION**  
**Department of Information Technology**  
Academic Session 2022-23

This is to certify that Ms. Dhvani Agarwal, Roll No. 2100640130021  
of Course B. Tech. Information Technology, III Semester  
has successfully completed 32 hours Value Added Course titled  
“ALGORITHMIC PROBLEM-SOLVING: FROM FUNDAMENTALS TO  
APPLICATIONS” (Course Code: VACIT-004).

**Dr. Shankar Thawkar**  
Head of Department

**Mr. Ajay Raj Parashar**  
Course Coordinator

**Mrs. Deepti Mittal**  
Course Coordinator

**Dr. R. K. Upadhyay**  
Director

Director  
Hindustan College of  
Science & Technology  
FARAH (MATHURA)