

Hindustan College of Science and Technology

Farah (Mathura)

Department of Information Technology

Date: 02Feb 2022

Circular

Registration for Value-Added Course: "Application Design (VACIT-003)"

Dear Students,

We are pleased to announce a valuable opportunity for all 3rd year to enhance your skills and knowledge in the field of "APPLICATION DESIGN." This value-added course has been meticulously designed to equip you with essential practical skills and theoretical insights into designing innovative and user-friendly applications. We believe that this course will not only complement your existing curriculum but also open doors to exciting career prospects in the rapidly evolving world of technology.

Course Details:

Course Name: Application Design Course

Duration: 14 February 2022 - 25 May 2022 (30 Hrs)

Registration Deadline: 12 February 2022

Registration Process:

To participate in this valuable opportunity, interested students must register themselves by 12 February 2022. To register, kindly contact Mr. Mohit Singh, Assistant Professor in the Department of Information Technology. Mr. Singh will guide you through the registration process and address any queries you may have.

Please note that this course is mandatory for all the students of 3rd year IT department. Therefore, we encourage you to register at the earliest to secure your participation.

We look forward to your active participation in this value-added course, and invest in your future by taking advantage of this exceptional learning opportunity. The "Application Design" course will undoubtedly add value to your skillset and broaden your horizons in the field of Information Technology.

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

Thank you.

Sincerely,

Mr. Shankar Thawkar

HOD, IT

Head

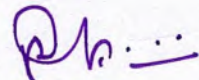
Department of Information Technology

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

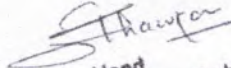
**APPLICATION DESIGN
(VACIT-003)**

14th Feb 2022 - 25th May 2022

Registration Date: 08 Feb 2022 - 12 Feb 2022

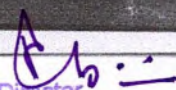
For Registration, Please contact:

Mr. Mohit Singh
Assistant Professor, IT


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

DEPARTMENT OF INFORMATION TECHNOLOGY

www.hcst.edu.in


Director
Hindustan College of
Science & Technology
FARAH (MATHURA)

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.

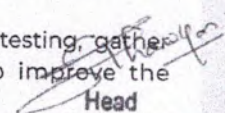
ABOUT

THE PROGRAM

The program is designed for individuals who are interested in learning about the design process, software and application. It covers the basics of design and the concept of user-centric design. Students will learn about the various steps involved in designing an application, including market research, problem definition, analysis, planning, and testing the prototype. The program also covers the process of designing an application, including understanding user requirements, creating personas, and designing a prototype. Students will learn how to perform user testing and gather feedback to improve the application. The program provides hands-on experience and equips students with the skills to design an application that is user-friendly and meets the needs of the target market. Overall, the program is a comprehensive introduction to design, software and application and provides a solid foundation for those interested in pursuing a career in this field.

Objectives

1. To provide an overview of the design process and software and application.
2. To introduce the concept of user-centric design and the various steps involved.
3. To familiarize students with the process of finding problems and conducting market research.
4. To teach the process of designing an application, including understanding user requirements, creating personas, and designing a prototype.
5. To equip students with the skills to perform user testing, gather feedback, and make necessary modifications to improve the application.


Head
Department of Information Technology
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Farah, Mathura

COURSE

OUTCOMES

CO-1: Understand user-centric design, conduct market research, analyze problems, and design & test prototypes.

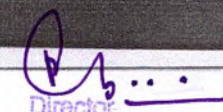
CO-2: Gather user requirements, brainstorm, conduct interviews, create personas, and develop user stories.

CO-3: Learn system architecture, create flowcharts, design transitions, work with vector images, and develop prototypes.

CO-4: Prepare questionnaires, conduct user testing, gather feedback, make modifications, and release the final application.

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CO-PO-PSO MAPPING

Application Design (VACIT-003)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO-1	1	3	3	2	3	3	-	2	3	-	-	1	3	1	-
CO-2	2	3	2	2	3	2	-	1	3	-	-	2	3	2	-
CO-3	2	1	3	3	3	3	-	2	3	-	-	2	3	2	-
CO-4	2	2	-	3	3	3	-	2	2	-	-	2	3	3	-
Avg	1.75	2.25	2.67	2.50	3.00	2.75	0.00	1.75	2.75	0.00	0.00	1.75	3.00	2.00	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

[Signature]
 Head
 Department of Information Technology
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 Director
 Hindustan College of
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CONVENOR



Dr. Shankar Thawkar
Associate Professor
HOD, IT



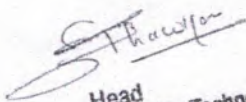
Mrs. Deepti Mittal
Assistant Professor
Dy. HOD, IT

CO-CONVENOR

VAC COORDINATOR

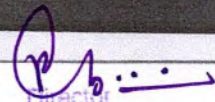


Mr. Ajay Raj Parashar
Assistant Professor
IT Department


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

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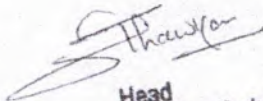
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SPEAKERS

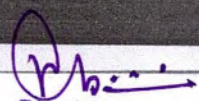


Mr. Mohit Singh
Assistant Professor
IT Department


Head
Department of Information Technology
Hindustan College of Science & Technology
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COURSE OUTLINE

Application Design (VACIT-003)

Module 1: Introduction

- Introduction to Design, Software and Application
- Concept behind the user centric design
- Various steps used to design an application, finding problems
- Market research
- Introduction to problem definition, analysis, planning
- Designing & testing the prototype.

Module 2: Designing an Application - I

- Understanding the user requirements
- Brainstorming
- User interviews
- Persona
- User stories

Module 3: Designing an Application - II

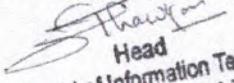
- Introduction to System, Subsystem
- Integrated Modules, Procedures and Functions
- Flow Chart, transitions
- vector images, prototype & wireframe.

Module 4: User Testing

- Questionnaire preparation
- User testing
- Feedback & reviews
- Modifications & final release

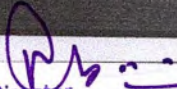
Text Book/References:

- Brown, T. (2009). Change by design: How design thinking transforms organizations and inspires innovation. HarperCollins.
- Shneiderman, B. (2016). Designing the user interface: Strategies for effective human-computer interaction. Pearson Education India.


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LECTURE PLAN

Application Design (VACIT-003)

Module 1: Introduction

Lecture 1: Introduction to the course, design, software, and applications.

Lecture 2: User-centric design and its importance.

Lecture 3: Steps used to design an application.

Lecture 4: Finding problems and market research.

Lecture 5: Introduction to problem definition.

Lecture 6: Problem analysis and planning.

Lecture 7: Designing a prototype.

Lecture 8: Testing the prototype.

Lecture 25: Best practices for releasing an application.

Lecture 26: Post-release testing and feedback.

Lecture 27: How to handle user feedback and reviews.

Lecture 28: Common mistakes to avoid in application design.

Lecture 29: Future trends in application design.

Lecture 30: Course review and recap.

Module 2: Designing an Application – I

Lecture 9: Understanding user requirements.

Lecture 10: Brainstorming techniques.

Lecture 11: User interviews.

Lecture 12: Creating personas.

Lecture 13: User stories and how to create them.

Module 3: Designing an Application – II

Lecture 14: Introduction to the system, subsystems, and integrated modules.

Lecture 15: Procedures and functions.

Lecture 16: Flow charts and transitions.

Lecture 17: Vector images and their uses.

Lecture 18: Introduction to wireframes.

Lecture 19: Creating a prototype using wireframes.

Module 4: User Testing

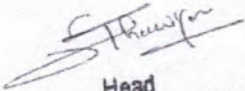
Lecture 20: Questionnaire preparation for user testing.

Lecture 21: Conducting user testing.

Lecture 22: Feedback and reviews.

Lecture 23: Modifying the prototype based on feedback.

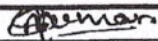
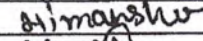
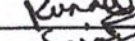
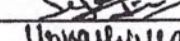
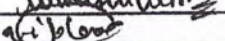
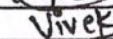

Lecture 24: Finalizing the application for release.

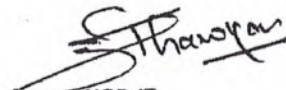

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HINDUSTAN COLLEGE OF SCIENCE & TECHNOLOGY, FARAH - MATHURA					
Department of Information Technology					
Value Added Course - Registration Form					
VACIT- 003- Application Design					
Session: 2021-2022			From 14th Feb'2022 - 25 May'2022		
S.N.	Roll No.	Name of the Student	Department	Semester	Signature of Student
1	190064013001	AMAN KRUMAR SONI	IT	6TH	
2	190064013002	HIMANSHU MOOLCHANDANI	IT	6TH	
3	190064013004	KUNAL	IT	6TH	
4	190064013005	SEJAL JAIN	IT	6TH	
5	190064013006	URVASHI VERMA	IT	6TH	
6	190064013007	VIPLAV KANT RAI	IT	6TH	
7	190064013008	VIVEK SHARMA	IT	6TH	


HOD-IT

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

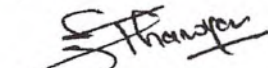

Program Coordinator


Director
Hindustan College of
Science & Technology
FARAH (MATHURA)

HINDUSTAN COLLEGE OF SCIENCE & TECHNOLOGY, FARAH - MATHURA
Department of Information Technology
VACIT- 003- Application Design
Session: 2021-2022
Session Wise Attendance Sheet

S.N.	Roll No.	Name of the Student	Attendance															Signature	
			18/2	25/2	4/3	11/3	25/3	1/4	8/4	15/4	22/4	29/4	6/5	13/5	13/5	14/5	14/5		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
1	190064013001	AMAN KRUMAR SONI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Amn
2	190064013002	HIMANSHU MOOLCHANDANI	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	Himanshu
3	190064013004	KUNAL	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	A	Kunal
4	190064013005	SEJAL JAIN	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	Sejal
5	190064013006	URVASHI VERMA	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	Urvashi
6	190064013007	VIPLAV KANT RAI	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	Viplav
7	190064013008	VIVEK SHARMA	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	Vivek
Total Attendance			06	06	06	05	07	06	05	07	07	07	05	07	07	07	05		
Attendance %																			

Total Lectures = 02 x 15 = (30)


HOD-IT

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


Program Coordinator


Director
Hindustan College of
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HINDUSTAN COLLEGE OF SCIENCE & TECHNOLOGY, FARAH, MATHURA
DEPARTMENT OF INFORMATION TECHNOLOGY
CLASS TIME TABLE FOR EVEN SEMESTER 2021-22

SESSION: 2021-22
 YEAR/SEM: III / 6 IT

W.E.F. 14/02/22
 ROOM NO: 221 B

CLASS TEACHER: Mrs. Deepti Mittal
 COUNSELORS: Mrs. Deepti Mittal

Day \ Time	I	II	III	IV	1:30-02:20	V	VI	VII
	10:10-11:00	11:00-11:50	11:50-12:40	12:40-01:30		02:20-03:10	03:10-04:00	04:00-04:50
MONDAY	GIS	CN	DA	ITC		PDP		SE
TUESDAY	DC	PDP		ITC		GIS	Data Analytics Lab	
WEDNESDAY	DC	SE	CN	ITC		DA	Computer Networks Lab	
THURSDAY	DC	DA	CN	SE		GIS	Software Engineering Lab	
FRIDAY	DC	DA	CN	— SE		Value Added Course (VACIT003)		
						APPLICATION DESIGN		
SATURDAY	GIS	DC	SE	CN		DA	Seminar Presentation	
Class Room No - 221 - B								
Subject Code	Name of the Subject			Lecture	Tutorial (A)		Name of the Faculty	
KCS601	Software Engineering			SE	4	1	0	Mrs. Deepti Mittal
KIT601	Data Analytics			DA	4	1	0	Mr. Ajay Parashar
KCS603	Computer Networks			CN	4	1	0	Dr. Shankar Thawkar
KCS064	Data Compression			DC	4	1	0	Dr. Shankar Thawkar
KOE-066	GIS & Remote Sensing			GIS	4	1	0	Dr. Vinod Kushwah
KNC602	Indian Tradition Culture & Society			ITC	2	1	0	Dr. Archana Gautam
Subject Code	Name of the Practical Lab			Lab Number			Name of the Faculty	
KCS651	Software Engineering Lab			SE LAB	LAB -4		Mr. Mohit Singh	
KIT651	Data Analytics Lab			DA LAB	LAB -5		Mr. Ajay Parashar	
KCS653	Computer Networks Lab			CN Lab	LAB -4		Dr. Shankar Thawkar	
	Seminar Presentation			Seminar	LAB -6		IT Department Faculty	
VACIT003	VALUE ADDED COURSE (APPLICATION DESIGN)				LAB-4		Mr. Mohit Singh	

(Mr. Mohit Singh)
 IT/IC, IT Dept.

Director
 Hindustan College of
 Science & Technology
 FARAH (MATHURA)

(Dr. Shankar Thawkar)
 HOD, Dept.
 Department of Information Technology
 Hindustan College of Science & Technology
 Farah, Mathura



CERTIFICATE OF COMPLETION

Department of Information Technology

Academic Session 2021-22

This is to certify that Mr. Aman Kumar Soni, Roll No. 190064013001
of Course B. Tech. Information Technology, VI Semester
has successfully completed 30 hours Value Added Course titled
“APPLICATION DESIGN” (Course Code: VACIT-003)

Dr. Shankar Thawkar
Head of Department

Mr. Mohit Singh
Course Coordinator

Dr. R. K. Upadhyay
Director



CERTIFICATE OF COMPLETION

Department of Information Technology

Academic Session 2021-22

This is to certify that Ms. Sejal Jain, Roll No. 190064013005
of Course B. Tech. Information Technology, VI Semester
has successfully completed 30 hours Value Added Course titled
“APPLICATION DESIGN” (Course Code: VACIT-003)

Dr. Shankar Thawkar
Head of Department

Mr. Mohit Singh
Course Coordinator

Dr. R. K. Upadhyay
Director

Director
Hindustan College of
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