

Value added courses - 2020 -2021

About the Programme

We intend to equip students to become expert in upcoming technology. Majority of the departments have been conducting value added courses in their respective domains. Value added courses are now considered to be primary importance for students learning outcome. These courses help or aid students in their employability and their skill-oriented profession. Value added courses are introduced in the extracurricular domains in our course structure and we insist upon all students to undergo the courses compulsorily. It gives awareness for inter planer training, implant training and placement.

Value added courses offered by various departments are as follows:

1. Aeronautical Engineering Department

1. Mesh tools for industrial application
2. CATIA Industrial Application.

2. Agricultural Engineering Department

1. Testing and Evaluation of Agricultural Machinery and Equipment

3. Automobile Engineering Department

1. Automotive Vehicle Fault Diagnostics

4. Biomedical Engineering Department

1. Java and Lab view GUI Programming with Real-

time Application .

2. Innovation in biosensor applications using
labVIEW

5. Chemical Engineering

1. Bulk solid handling for chemical engineers

6. Civil Engineering Department

1. Autodesk Revit Architecture.

7. Computer Science Engineering

1. Computer Hardware and Networking

2. Database Using SQL.

8. Electronics and Communication Engineering

1. Arduino & Raspberry Pi

9. Electronics and instrumentation Engineering

1. Object Oriented Programming Using JAVA

10. Electrical and Electronics Engineering Department

1. Lab view programming.

11. Food Technology

1. Food product Development

12. Information Technology Department

1. Database Using SQL, Computer Hardware and
Networking and Android

2. Development with Kotlin, the Complete
REACT Native

13. Mechanical Engineering Department

1. Introduction to MS office

2. Computational fluid dynamics.

Aeronautical Engineering Department



Hindusthan College of Engineering And Technology
Approved by AICTE, New Delhi, Accredited with 'A' Grade by NAAC
(An Autonomous Institution, Affiliated to Anna University, Chennai)
Coimbatore – 641 032



Department of Aeronautical Engineering

Value Added Course

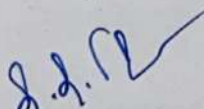
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15.04.2021

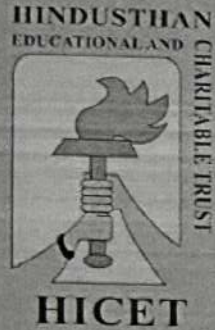
Sub: Request – Approval – Value Added Course dates –II & III year – Aero, Reg

The Department of Aeronautical Engineering is planning to conduct value added course on CATIA with Industrial Approach for II-year students (77 Nos.) in the fourth Semester and Mesh tools for Industrial applications for III-year students (99 Nos) in the sixth semester. The course is extremely useful for the students of Aeronautical Engineering. The proposed programme schedule is given below

S.No	CLASS	SEMESTER	DATE
1	II Year	IV	20.04.2021 & 21.04.2021
2	III Year	VI	16.04.2021 to 22.04.2021


Co-Ordinator


HoD/Aero



Hindusthan

College Of Engineering and Technology
(An Autonomous Institution)
Valley Campus, Pollachi Highway, Coimbatore

Department of Aeronautical Engineering
Organize

Value Added Course

On

Mesh Tools for Industrial Applications

Saravanan R AP/Aero

Arulmozhinathan T AP/Aero

Coordinators

Gopinathan VT AP/Aero

HoD

Dr.Karunakaran K

Principal/CEO



Hindusthan College of Engineering and Technology
Valley campus, pollachi highway, Coimbatore.

Department of Aeronautical Engineering

Value added course

SEMESTER: VI

Course name: Hypermesh

Course Objective

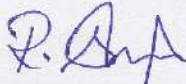
- Understand the basics of Finite Element Analysis
- Understand the Hypermesh tool
- Apply the Basics of FEA using Hypermesh in Industry applications

UNIT	CONTENT	HOURS
1	UNIT 1 - Basics of FEA The fundamentals of Finite Element Analysis (FEA) - FEA is a generic technique used to solve boundary value problems - FEA finds a lot of applications in structural analysis - Math behind FEA	7
2	UNIT 2 - INTRODUCTION TO HYPER MESH Introduction about Hyper mesh - Introduction to CAD & CAE - Application of CAE Software - Advantages and Theory of FEM and Basic engineering and Shortcuts. Geometry - Create node - Node edit - Temp nodes - Distance - Dimensioning - Lines - Line edit - Length - Creation of surfaces and surface edit - Normal Translate and Rotate - Auto - mid surface Extraction - Surface edges - Visualization tool bar - Display tool bar - Clean up using quick edit	7
3	UNIT 3 - 2D Meshing Introduction to meshing - Auto meshing - Size & Biasing - Density and mesh style - Mesh connectivity - Replace and remeshing - Current and surface components - Reviews of all options and doubt clarification - Quality criteria - Warpage - Aspect ratio - Jacobian - Skew - Reducing the Trias percentage	8
4	UNIT 4 - 3D Meshing Introduction to 3D meshing - Types of 3D elements - Drag, spin, line drag & Element offset - Solid and solid edit - Solid map commands - Linear mesh - Solid mesh - Tetra mesh - Tetra parameters - Tet collapse - Remeshing	8

5	UNIT 5 – Analysis Introduction to analysis - Create collectors - Material properties - Load constraints - Load steps - Deck preparation - Material and properties assignment - Assign of loads and constraints - Saving the file formats – Industry model application	10
	TOTAL HOURS	40

Course Outcome

- Understand the basics of Finite Element Analysis
- Understand the Hypermesh tool
- Apply the Basics of FEA using Hypermesh in Industry applications


Faculty Incharge


HoD/AERO
iw


DEAN

HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF AERONAUTICAL ENGINEERING

FEEDBACK - VACAE06-Mesh Tools for Industrial Applications (Hypermesh)

Timestamp	Email address	Name in block letters with Initials at the back. (this name only will be used for certificate)	Register Number	Mobile number	How much will you rate the content of the speaker	How much would u rate for the speaker knowledge	How much would you rate for the speaker presentation and delivery	How much will you rate this course	Any comments for improvement of the course
21/04/2021 09:26:25	18101095@hicet.ac.in	YUVARAJ R	18101095	9597961663	7	7	7	4	Very nice
21/04/2021 09:33:23	18101053@hicet.ac.in	PAVITHRA. N	18101053	6369235524	8	8	7	4	Video can be added.. So that we could understand better.
21/04/2021 09:35:37	18101069@hicet.ac.in	SANTHINI. M	18101069	8304889612	7	7	6	3	If possible we want some more video explanations
21/04/2021 09:39:28	18101058@hicet.ac.in	PREETHI. R	18101058	9597078214	8	8	8	4	Nothing
21/04/2021 09:49:40	18101079@hicet.ac.in	SITTHESHWARAN S	18101079	9047711435	5	6	6	3	Need some more explanation
21/04/2021 09:53:29	18101092@hicet.ac.in	VISHNU SRINIVASAN S	18101092	9043362513	7	7	7	4	No comments
21/04/2021 10:11:41	18101071@hicet.ac.in	SANTHOSH.S	18101071	7904354114	7	6	7	3	No,it is good
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21/04/2021 10:35:33	18101022@hicet.ac.in	GOWTHAM.S	18101022	9655922882	7	7	7	4	Shall we conduct future some webinars related to these title HYPERMESH
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21/04/2021 10:42:02	18101032@hicet.ac.in	KALAIKOVAN.M	18101032	9092771938	6	7	7	3	Nil
21/04/2021 10:46:16	18101046@hicet.ac.in	MUTHUMARI M	18101046	8903507627	8	8	7	4	This Course is Excellent . Nothing to say wrongly about it.
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21/04/2021 10:56:58	18101089@hicet.ac.in	VENKATESH.K	18101089	7708245601	6	5	4	3	Satisfied
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48	18101807	USMAN ALI S A	P	P	P	P	P	P	P
49	18101808	YUVARAJ G	P	P	P	P	P	P	P

Namelist : III Aero A

1	18101049	NAVEEN V P	P	P	P	P	P	P	P
2	18101050	NIKHIL VERMA	P	P	P	P	P	P	P
3	18101051	NITHYA SHREE	P	P	P	P	P	P	P
4	18101052	NUVVULA YESHASWI NARAYANA	P	P	P	P	P	P	P
5	18101053	PAVITHRA N	P	P	P	P	P	P	P
6	18101054	PRAKAAS M	P	P	P	P	P	P	P
7	18101056	PRAVEEN KUMAR	P	P	P	P	P	P	P
8	18101057	PRAVEEN T	P	P	P	P	P	P	P
9	18101058	PREETHI R	P	P	P	P	P	P	P
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14	18101064	SYED WALI AHMAD RIZVI	P	P	P	P	P	P	P
15	18101065	SABARISH C	P	P	P	P	P	P	P
16	18101066	S. SAHIM NISHBAN	P	P	P	P	P	P	P
17	18101067	SANGARALINGAM .N	P	P	P	P	P	P	P
18	18101068	SANJAYAN M A	P	P	P	P	P	P	P
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21	18101072	SASHARAN PACKIAM	P	P	P	P	P	P	P
22	18101073	SELVA RASU	P	P	P	P	P	P	P
23	18101074	SETHU RITHIK	P	P	P	P	P	P	P
24	18101075	SHAHANAS N	P	P	P	P	P	P	P
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29	18101080	SRI BALAJI S	P	P	P	P	P	P	P
30	18101081	SRISHARA DEVI	P	P	P	P	P	P	P
31	18101082	SUBASH CHANDRA BOSS M	P	P	P	P	P	P	P
32	18101083	S SUDHARSAN	P	P	P	P	P	P	P
33	18101084	SUNDARES WARAN	P	P	P	P	P	P	P
34	18101085	SUNIL SARAVANAN	P	P	P	P	P	P	P
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HINDUSTHAN

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Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032

Value Added Course

This is to certify that

NAVEEN. V. P [18101049] of III Year BE AERO

has successfully completed the course

VACAE06-Mesh Tools for Industrial Applications (Hypermesh)

from 16/4/21 to 22/4/21 for the period of 30 hours

during the EVEN semester of the academic year 2020-2021

V.T. Srinathram
HOD



N. Madhavan
DEAN-ACADEMICS

[Signature]
PRINCIPAL

HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY
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Value Added Course

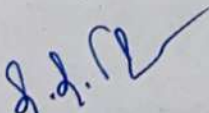
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Co-Ordinator


HoD/Aero



HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY
Department of Aeronautical Engineering

Value Added Course

Year/ Branch/Sem: II - AERO - 04 CATIA (Sketching, Part Design, Drafting)

Course Objective:

1. Make the students to learn, plan and layout of the diagrams
2. Make the students to understand tools and methods in converting sketches into 3d modelling
3. Enable the students to execute simple design and complex design
3. Equip the students to learn drafting using draft workbench.

UNIT I Introduction to CATIA v5

CATIA V5 Basic Modeling Process, Workbenches, Specification tree, Reference Planes, Compass, View Toolbar, Understanding the Functions of the Mouse Buttons, Hotkeys **5**

UNIT-II Sketcher Workbench

Starting a New File, Invoking the Sketcher Workbench, Setting the Sketcher Workbench - Sketch tools Toolbar, Create Sketch Geometry - Basic sketching - Profile Toolbar, Advanced Sketching - Operation Toolbar, Advanced sketching - Knowledge Toolbar, Constraining the sketch - Constrain toolbar - Geometric and dimensional constraint, Saving and exporting the sketch **8**

UNIT-III Part design Workbench

Invoking Part Design Workbench, converting 2d Sketch into 3d Part - Sketch-Based Features Toolbar, Advanced editing of 3d Part - Dress-up Features Toolbar, Advanced Part Designing - Transformation Features Toolbar, Additional References - Reference Elements Toolbar, Using Macros to import geometrical set, Annotations - Apply Material - Dynamic Sectioning Toolbar, Measure - Boolean operations - Graphic Properties - User Selection Filter Toolbar **17**

UNIT-IV Drafting Workbench

Invoking Drafting Workbench - New Drawing Creation, Visualization - Tools - Views - Dimensioning Toolbar, Geometry Creation - Geometry Modification - Dress up Toolbar, Annotations Toolbar **10**

40 hours

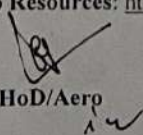
Course Outcome:

1. The student will be able to understand the plan and layout of drawings by the fundamentals in CATIA
2. The student will be able to understand, will be able to design the elements using computer aided techniques.
3. Students learn to transform technical data into electronic drawings.
4. Student's ability to convert sketches to engineering drawing will improve
5. Students will be able to do part designing of complex parts

References:

1. Richard Cozzens "CATIA V5 Workbook Release 19", Schroff Development Corporation (August 31, 2009).
2. "CATIA Core Tools: Computer Aided Three-Dimensional Interactive Application" 1st Edition, McGraw-Hill Education
3. Sham Tickoo, "CATIA for Designers V5R13",
4. "CATIA V5-6R2015 Basics: Sketcher Workbench, Part Modeling, Assembly Design, Drafting, Sheet Metal", by Tutorial Books

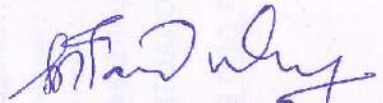
Web Resources: <http://www.coe.org/>

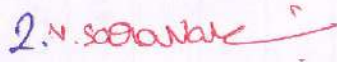

HoD/Aero

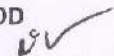

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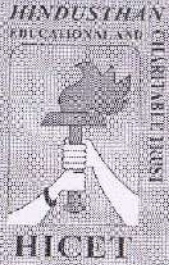
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30	19101033	KARTHICK K S	/	/	/	a	/	/	/	a
31	19101034	KARUPPAIYAH	/	/	/	/	/	a	/	/
32	19101035	KAVI ARASU J	/	/	/	/	/	/	/	/
33	19101036	KAVIDHARSHINI P S	/	/	/	/	/	/	/	/
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39	19101805	NAVEEN M	/	/	/	/	/	/	/	/
40	19101039	MAHENDRAN S L	a	a	a	a	/	/	/	a
41	19101040	MARI RAJ S	/	a	a	a	/	a	/	a
42	19101041	NANDAN N	/	/	/	/	a	/	/	a
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52	19101051	ROKESH KANNA R	/	/	/	/	/	/	/	/
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60	19101062	SHUBHAM DOGRA	/	/	/	/	/	/	/	/
61	19101063	SUHAIL AHMED.S	/	/	/	/	/	/	/	a
62	19101064	SUNIL RAJAN V R V	a	a	a	a	/	a	h	a

63	19101065	SUSHANTHINI B	/	/	a	/	/	/	/	/
64	19101066	SWETHA R	/	/	/	/	/	a	/	/
65	19101067	THENDRAL D	/	/	/	/	/	/	a	a
66	19101068	THIRUMENINATHAN R	a	/	/	a	/	/	a	/
67	19101069	THIRUNAVKARASU C M	a	/	/	a	/	/	/	/
68	19101071	VASEEGARAN.R	/	/	/	a	/	/	/	a
69	19101072	VASUPATHI C S	/	a	/	a	/	/	/	a
70	19101073	VELKUMAR J	/	a	/	/	/	/	/	a
71	19101074	VISHAL R K	/	/	/	a	/	/	a	/
72	19101075	VISHVA V	/	/	/	/	/	/	/	/
73	19101076	VISWAAS B	/	/	/	/	/	/	a	a
74	19101077	ANTON ABI S	/	/	/	/	/	/	/	a
75	19101601	SATHIYA G K	/	/	/	/	/	/	/	/
76	19101801	DEEPAK KUMAR M	/	/	/	/	/	/	/	a
77	19101806	RAHUL R	/	/	/	/	/	/	/	a

1. 
PROGRAM COORDINATOR

2. 


HOD




HINDUSTHAN

College of Engineering and Technology

(An Autonomous Institution)

Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032

Value Added Course

This is to certify that

MAHENDRAN S L [19101039] of II Year BE AERO

has successfully completed the course

VACAE04-CATIA with Industrial Approach

from 10/4/21 to 17/4/21 for the period of 30 hours

during the EVEN semester of the academic year 2020-2021

V. T. Srinivasan

HOD



[Signature]

DEAN-ACADEMICS

[Signature]

PRINCIPAL

Hindusthan College of Engineering and Technology, Coimbatore

Department of Aeronautical Engineering

Feedback form

Your feedback is critical for us to ensure we are meeting your educational needs. We would appreciate if you could take a few minutes to share your opinions with us so we can serve you better.

CATIA – Industrial Approach

Name: SABARISH (Optional)

	Strongly agree				Strongly disagree
1. The content was as described in publicity materials	<input checked="" type="checkbox"/>	2	3	4	5
2. The workshop will enhance my knowledge in CATIA	1	2	<input checked="" type="checkbox"/>	4	5
3. I will recommend this workshop to other conservators	<input checked="" type="checkbox"/>	2	3	4	5
4. The program was well paced within the allotted time	1	<input checked="" type="checkbox"/>	3	4	5
5. The instructor was a good communicator	<input checked="" type="checkbox"/>	2	3	4	5
6. The material was presented in an organized manner	<input checked="" type="checkbox"/>	2	3	4	5
7. The instructor was knowledgeable on the topic	<input checked="" type="checkbox"/>	2	3	4	5
8. I would be interested in attending a follow-up, more advanced workshop on this same subject	1	<input checked="" type="checkbox"/>	3	4	5
9. Given the topic, was this workshop:	<input type="checkbox"/> a. Too short	<input checked="" type="checkbox"/> b. Right length	<input type="checkbox"/> c. Too long		
10. In your opinion, was this workshop:	<input type="checkbox"/> a. Introductory	<input type="checkbox"/> b. Intermediate	<input checked="" type="checkbox"/> c. Advanced		
11. Please rate the following:	Excellent	Very Good	Good	Fair	Poor
a. Visuals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Acoustics	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Meeting space	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Handouts	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. The program overall	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

12. What did you most appreciate/enjoy/think was best about the course? Any suggestions for improvement?

we have an advance knowledge
about AN CATIA. we have enjoyed an
session.

Thank you!

Hindusthan College of Engineering and Technology, Coimbatore
Department of Aeronautical Engineering

Feedback form

Your feedback is critical for us to ensure we are meeting your educational needs. We would appreciate if you could take a few minutes to share your opinions with us so we can serve you better.

CATIA – Industrial Approach

Name: S. Gowtham (Optional)

	Strongly agree	2	3	4	Strongly disagree
1. The content was as described in publicity materials	<input checked="" type="radio"/> 1				<input checked="" type="radio"/> 5
2. The workshop will enhance my knowledge in CATIA	<input checked="" type="radio"/> 1				<input checked="" type="radio"/> 5
3. I will recommend this workshop to other conservators	<input type="radio"/> 1	<input type="radio"/> 2	<input checked="" type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
4. The program was well paced within the allotted time	<input checked="" type="radio"/> 1				<input type="radio"/> 5
5. The instructor was a good communicator	<input checked="" type="radio"/> 1				<input type="radio"/> 5
6. The material was presented in an organized manner	<input checked="" type="radio"/> 1				<input type="radio"/> 5
7. The instructor was knowledgeable on the topic	<input checked="" type="radio"/> 1				<input type="radio"/> 5
8. I would be interested in attending a follow-up, more advanced workshop on this same subject	<input checked="" type="radio"/> 1				<input type="radio"/> 5
9. Given the topic, was this workshop:	<input type="checkbox"/> a. Too short	<input checked="" type="checkbox"/> b. Right length	<input type="checkbox"/> c. Too long		
10. In your opinion, was this workshop:	<input type="checkbox"/> a. Introductory	<input checked="" type="checkbox"/> b. Intermediate	<input type="checkbox"/> c. Advanced		
11. Please rate the following:	Excellent	Very Good	Good	Fair	Poor
a. Visuals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Acoustics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Meeting space	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Handouts	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. The program overall	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

12. What did you most appreciate/enjoy/think was best about the course? Any suggestions for improvement?

Valuable

Thank you!

Agricultural Engineering Department



HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

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COIMBATORE 641 032



DEPARTMENT OF AGRICULTURE ENGINEERING

CIRCULAR

Value Added Course

Dear Students,

We are happy to inform you that the value added course for the III Year B.E (Agriculture. Engineering) students commences on 25.06.2021 through Online mode. Students are advised to complete the courses successfully and receive the certificate from the department.

Name of the Course: **16VA AG01- Testing and Evaluation of Agricultural Machinery and Equipment**

The link for attending classes, both FN & AN sessions: <https://meet.google.com/big-kgbr-kwf>

[Handwritten Signature]
+ PRINCIPAL

To

1. Principal of HiCET
2. Dean Academic / COE
3. All Department HODs
4. Department staff members

Course Objectives

- To determination of functional performance and power requirements of agricultural machinery and equipment by running the test under a wide range of conditions in the laboratory and field.
- To develop intellectual leaders for the betterment of the industry needs.



Hindusthan College of Engineering and Technology

Coimbatore - 641032

DEPARTMENT OF AGRICULTURE ENGINEERING

VALUE ADDED COURSE

*“Testing and Evaluation of Agricultural
Machinery and Equipment”*

Duration

25.06.2021 to 09.07.2021

Time

10:00 AM to 12:00 PM

2:00 PM to 4:00 PM



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 (An Autonomous Institution, Affiliated to Anna University, Chennai)
 Valley campus, Othakalmandabam Post, Coimbatore



DEPARTMENT OF AGRICULTURE ENGINEERING
VALUE ADDED COURSE

Year: III Year	Semester: VI	Batch: 2018-2022
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Programme	Course Code	Name of the Course	L	T	P	C
B.E.	16VAAG01	Testing and Evaluation of Agricultural Machinery and Equipment	1	0	0	0

Time schedule

Date	Topic to be Cover	Duration	Morning	PM	Staffs
25.06.2021	Testing and evaluation system in India	2	10.00 AM to 12.00 PM	-	Dr.Sridhar ,N Assistant Professor, HICET- Coimbatore.
26.06.2021	Procedure for testing and Evaluation of primary tillage implements.	3	10. 0 AM to 12.0 PM	2.0 PM to 3.0 PM	Dr.Sridhar ,N Assistant Professor, HICET- Coimbatore.
28.06.2021	Procedure for testing and Evaluation of secondary tillage implements.	3	10. 0 AM to 12.0 PM	2.0 PM to 3.0 PM	Mrs. Ramya K Assistant Professor, HICET- Coimbatore.
29.06.2021	Procedure for testing and Evaluation of weeder and spray equipment.	4	10. 0 AM to 12.0 PM	2.0 PM to 3.0 PM	Ms.Athira P Assistant Professor, HICET- Coimbatore
30.06.2021	Procedure for testing and Evaluation of seed	3	10. 0 AM to	2.0 PM to 3.0	Ms.Athira P

	cum fertilizer drill.		12.0 PM	PM	Assistant Professor, HICET- Coimbatore
01.07.2021	Procedure for testing and Evaluation of combine harvesters and Thresher	4	10.0 AM to 12.0 PM	2.0 PM to 4.0 PM	Mrs. Ramya K Assistant Professor, HICET- Coimbatore.
2.07.2021	Procedure for testing and Evaluation of tractor.	4	10.0 AM to 12.0 PM	2.0 PM to 4.0 PM	.Dr.Sridhar ,N Assistant Professor, HICET- Coimbatore
3.07.2021	Hitching systems and controls of farm implements	3	10.0 AM to 12.0 PM	2.0 PM to 3.0 PM	Mrs.Chinju Saju Assistant Professor, HICET- Coimbatore
5.07.2021	Procedure for testing and Evaluation of Power tiller.	3	10.0 AM to 12.0 PM	2.0 PM to 4.0 PM	Dr.Nisha Assistant Professor, Department of Agriculture Engineering, Saveetha Engineering College Chennai.
6.07.201	Procedure for testing and Evaluation of Irrigation pump.	3	10.0 AM to 12.0 AM	2.0 PM to 3.0 PM	Mrs.Chinju Saju Assistant Professor, HICET- Coimbatore
8.07.2021	Safety testing of agricultural Machinery	3	10.0 AM to 12.0 PM	2.0 PM to 3.0 PM	Dr.Vivek P Teaching Assistant Tamil Nadu Agriculture University Coimbatore
9.07.2021	Test report preparation and data storage	2	10.0 AM to 12.0 PM	-	Dr.Sridhar ,N Assistant Professor, HICET- Coimbatore.

Total Hours	37			
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[Handwritten Signature]
DEAN ACADEMICS

Programme	Course Code	Name of the Course	L	T	P	C
B.E.	16VA AG01	Testing and Evaluation of Agricultural Machinery and Equipment	1	0	0	0

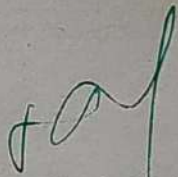
Objective	<ul style="list-style-type: none"> To determination of functional performance and power requirements of agricultural machinery and equipment by running the test under a wide range of conditions in the laboratory and field. To develop intellectual leaders for the betterment of the industry needs.
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Outcome	<p>After completing this programme, students will be able to:</p> <p>CO1: To know procedure for evaluation of implements of primary and secondary tillage implement.</p> <p>CO2: To know procedure for evaluation of tractor and power tiller</p> <p>CO3: To know procedure for evaluation of seed cum fertilizer drill.</p> <p>CO4: To know procedure for evaluation of combine harvesters</p> <p>CO5: To know prepare the test report of agricultural machinery and implements.</p>
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S.No	Topic to be Cover	Duration	Staffs
1.	Testing and evaluation system in India	2	Dr.Sridhar ,N Assistant Professor, HICET- Coimbatore.
2.	Procedure for testing and Evaluation of primary tillage implements.	3	Dr.Sridhar ,N Assistant Professor, HICET- Coimbatore.
3.	Procedure for testing and Evaluation of secondary tillage implements.	3	Mrs. Ramya K Assistant Professor, HICET- Coimbatore.
4.	Procedure for testing and Evaluation of weeder and spray equipment.	4	Ms.Athira P Assistant Professor, HICET- Coimbatore
5.	Procedure for testing and Evaluation of seed cum fertilizer drill.	3	Ms.Athira P Assistant Professor, HICET- Coimbatore
6.	Procedure for testing and Evaluation of combine harvesters and Thresher	4	Mrs. Ramya K Assistant Professor, HICET- Coimbatore.
7.	Procedure for testing and Evaluation of tractor.	4	.Dr.Sridhar ,N Assistant Professor, HICET- Coimbatore
8.		3	Mrs.Chinju Saju

	Hitching systems and controls of farm implements		Assistant Professor, HICET- Coimbatore
9.	Procedure for testing and Evaluation of Power tiller.	3	Dr.Nisha Assistant Professor, Department of Agriculture Engineering, Saveetha Engineering College Chennai.
10.	Procedure for testing and Evaluation of Irrigation pump.	3	Mrs.Chinju Saju Assistant Professor, HICET- Coimbatore
11	Safety testing of agricultural Machinery	3	Dr.Vivek P Teaching Assistant Tamil Nadu Agriculture University Coimbatore
12	Test report preparation and data storage	2	Dr.Sridhar ,N Assistant Professor, HICET- Coimbatore.
Total Hours		37	

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Dean Academics/Principal



HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

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COIMBATORE 641 032



DEPARTMENT OF AGRICULTURE ENGINEERING

Student Name List

Student Register Number	Student Name
18111001	ABITHA A
18111002	AGATHESWARAN P
18111003	AJAY FRANKLIN P
18111004	AKASH .S
18111005	ANU MARIA JOSEPH
18111006	ARUN M
18111007	ARUNKUMAR S
18111008	CHYTHANYA R
18111009	GOWTHAMAN L
18111010	HEMALATHA S
18111011	JEYASURYA J
18111014	MAHESHWAR L
18111015	MANIKANDAN S
18111016	MUKESHKANNA M
18111017	NAYANTHARA D R
18111018	PON SIVA SANKARI K
18111019	PRIYADHARSHINI P
18111020	RAHUL PRASANTHAN
18111021	RANJITHA S
18111022	REEFA ROSHAN E
18111023	SAKTHI KUMAR M
18111024	SANDHEEPSUJAN V
18111026	SARAN P
18111027	SARANRAJ R
18111029	SOORYA MANOJ
18111030	SREEJITH P P
18111031	SREELEKSHMI SASEENDRAN
18111032	SRIRAM S P
18111033	SRIRAM V
18111034	STALIN S
18111035	SUBA S
18111036	SUBRAM P
18111037	THANUSHREE P
18111038	UDHAYA SURIYAN M
18111039	ANJALI PRAKASH

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COIMBATORE 641 032



DEPARTMENT OF AGRICULTURE ENGINEERING

Attendance details of value added course

Student Register Number	Student Name	Year of Studying	Academic Year	SEM	Batch	Attendance Percentage
18111001	ABITHA A	III Year	2020 - 2021	EVEN	2018-2022	100
18111002	AGATHESWARAN P	III Year	2020 - 2021	EVEN	2018-2022	100
18111003	AJAY FRANKLIN P	III Year	2020 - 2021	EVEN	2018-2022	100
18111004	AKASH .S	III Year	2020 - 2021	EVEN	2018-2022	100
18111005	ANU MARIA JOSEPH	III Year	2020 - 2021	EVEN	2018-2022	100
18111006	ARUN M	III Year	2020 - 2021	EVEN	2018-2022	92
18111007	ARUNKUMAR S	III Year	2020 - 2021	EVEN	2018-2022	100
18111008	CHYTHANYA R	III Year	2020 - 2021	EVEN	2018-2022	97
18111009	GOWTHAMAN L	III Year	2020 - 2021	EVEN	2018-2022	84
18111010	HEMALATHA S	III Year	2020 - 2021	EVEN	2018-2022	100
18111011	JEYASURYA J	III Year	2020 - 2021	EVEN	2018-2022	100
18111014	MAHESHWAR L	III Year	2020 - 2021	EVEN	2018-2022	100
18111015	MANIKANDAN S	III Year	2020 - 2021	EVEN	2018-2022	86
18111016	MUKESHKANNA M	III Year	2020 - 2021	EVEN	2018-2022	94
18111017	NAYANTHARA D R	III Year	2020 - 2021	EVEN	2018-2022	89
18111018	PON SIVA SANKARI K	III Year	2020 - 2021	EVEN	2018-2022	100
18111019	PRIYADHARSHINI P	III Year	2020 - 2021	EVEN	2018-2022	100

18111020	RAHUL PRASANTHAN	III Year	2020 - 2021	EVEN	2018-2022	100
18111021	RANJITHA S	III Year	2020 - 2021	EVEN	2018-2022	100
18111022	REEFA ROSHAN E	III Year	2020 - 2021	EVEN	2018-2022	86
18111023	SAKTHI KUMAR M	III Year	2020 - 2021	EVEN	2018-2022	100
18111024	SANDHEEPSUJAN V	III Year	2020 - 2021	EVEN	2018-2022	100
18111026	SARAN P	III Year	2020 - 2021	EVEN	2018-2022	84
18111027	SARANRAJ R	III Year	2020 - 2021	EVEN	2018-2022	100
18111029	SOORYA MANOJ	III Year	2020 - 2021	EVEN	2018-2022	100
18111030	SREEJITH P P	III Year	2020 - 2021	EVEN	2018-2022	86
18111031	SREELEKSHMI SASEENDRAN	III Year	2020 - 2021	EVEN	2018-2022	100
18111032	SRIRAM S P	III Year	2020 - 2021	EVEN	2018-2022	94
18111033	SRIRAM V	III Year	2020 - 2021	EVEN	2018-2022	86
18111034	STALIN S	III Year	2020 - 2021	EVEN	2018-2022	86
18111035	SUBA S	III Year	2020 - 2021	EVEN	2018-2022	100
18111036	SUBRAM P	III Year	2020 - 2021	EVEN	2018-2022	89
18111037	THANUSHREE P	III Year	2020 - 2021	EVEN	2018-2022	100
18111038	UDHAYA SURIYAN M	III Year	2020 - 2021	EVEN	2018-2022	89
18111039	ANJALI PRAKASH	III Year	2020 - 2021	EVEN	2018-2022	100

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HINDUSTHAN

College of Engineering and Technology

(An Autonomous Institution)

Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032



Value Added Course

This is to certify that

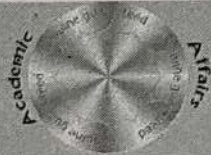
ABITHA A [18111001] of III Year AGRI ENGG

has successfully completed the course

“Testing and Evaluation of Agricultural Machinery and Equipment”

from 25/06/2021 to 09/07/2021 for the period of 37 hours during the EVEN semester of the academic year 2020-2021

Saidhaq
HOD



N. Madhukumar
DEAN-ACADEMICS

[Signature]
PRINCIPAL



Hindusthan College of Engineering and Technology

(An Autonomous Institution, Affiliated to Anna University, Chennai
Approved by AICTE, NewDelhi & Accredited by NAAC with 'A' Grade)



DEPARTMENT OF AGRICULTURE ENGINEERING

Name of course:	VALUE ADDED COURSE						Semester:	VI	
FEEDBACK FORM FROM STUDENTS									
Time	Full Name	Register Number	Mail id	Overall feedback about the value added course	Content delivery by the resource person	Rate the presentations use for content delivery	Interested topic in the course attended	Would you like to attend similar courses in future?	Suggest topics for courses in future
2021	Sriram. V	18111033	18111033@hicet.ac.in	Good	Very Good	4	All	Yes	
2021	S.Ranjitha	18111021	18111021@hicet.ac.in	Excellent	Excellent	5	Irrigation types	Yes	Best and the learn more
2021	Sreelekshmi Saseendran	18111031	sreelekshmis2047@gmail.com	Excellent	Excellent	5	Yes	Yes	Farm equipment
2021	P Ajay Franklin	18111003	18111003@hicet.ac.in	Very Good	Very Good	4	testing and evaluation of	Yes	
2021	Thanu shree.P	18111037	18111037@hicet.ac.in	Excellent	Excellent	5	farm Machinaries	Yes	Agro-food systems , food and diary management , sustainable agriculture

	Sakthi Kumar.								AutoCad, SolidWorks (Design related value added course)
2021	M	18111023	18111023@hicet.ac.in	Very Good	Very Good	4	Procedure for testing and evaluation in tractor	Yes	
2021	Anjali prakash	18111039	18111039@hicet.ac.in	Very Good	Very Good	3	Testing	Yes	No
2021	K.Pon Siva Sankari	18111018	18111018@hicet.ac.in	Very Good	Very Good	5	All topic interested only	Yes	Soil and water conservation related
2021	S.Hemalatha	18111010	18111010@hicet.ac.in	Good	Good	3	Farm machinery	Yes	New technologies in agriculture sector
2021	SUBA S	18111035	18111035@hicet.ac.in	Very Good	Very Good	4	Farm Equipment and Tractors	Yes	Nil
2021	Abitha A	18111001	18111001@hicet.ac.in	Very Good	Very Good	4	farm power	Yes	bio energy resources
2021	Akash S	18111004	18111004@hicet.ac.in	Excellent	Excellent	4	Hitching system and control of farm implements	Yes	Solidworks
2021	Rahul Prasanthan	18111020	18111020@hicet.ac.in	Excellent	Excellent	5	Nil	Yes	
2021	MAHESHWAR . L	18111014	18111014@hicet.ac.in	Excellent	Excellent	4	Testing of tractor	Yes	Hydroponic s

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DEPARTMENT OF AGRICULTURE ENGINEERING

CIRCULAR

Value Added course

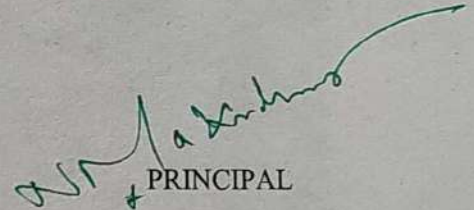
Dear Students,

We are happy to inform you that the value added course for the II Year B.E (Agriculture. Engineering) students commences on 03.06.2021 through Online mode. Students are advised to complete the courses successfully and receive the certificate from the department.

Name of Course: 19VAAG01- **Manufacturing of Agricultural Implements**

The link for attending classes, both FN & AN sessions:

<https://meet.google.com/lookup/bbjo2kqy7w>


PRINCIPAL

To

1. Principal of HicET
2. Dean Academic / COE
3. All Department HODs
4. Department staff members



Hindusthan College of Engineering and Technology

Coimbatore - 641032

DEPARTMENT OF AGRICULTURE ENGINEERING
VALUE ADDED COURSE

“Manufacturing of Agricultural Implements”

Duration

03.06.2021 to 16.06.2021

Time

10:00 AM to 12:30 PM

2:00 PM to 4:30 PM

Resource Persons

Er. Selva Kumar,
Redlands Ashlyn
Motors PLC,
Coimbatore

Mr. Rajan,
AP, Hindusthan
Polytechnique
College, Coimbatore

Content to be delivered

- Manufacture process for Agricultural Implements
- Marketing of Agricultural Implements

Course Outcomes

- Understand the working of agricultural implements and their components.
- Understand the material selection and manufacturing process
- Practice health and safety at the work place.
- Understand the marketing principles and procedures

Google Meet Link

<https://meet.google.com/lookup/bbjo2kqy7w>



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 Valley campus, Othakalmandabam Post, Coimbatore



DEPARTMENT OF AGRICULTURE ENGINEERING
VALUE ADDED COURSE

Year : II Year	Semester : IV	Batch: 2019-2023
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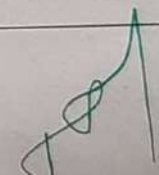
Programme	Course Code	Name of the Course	L	T	P	C
B.E.	19VAAG01	Manufacturing of Agricultural Implements	1	0	0	0

Time schedule

Date	Topic to be Cover	Duration	Morning	Afternoon	Staffs
03.06.2021	Introduction	1	11.30 AM to 12.30 PM	-	Dr.Sridhar ,N Assistant Professor, HICET- Coimbatore.
04.06.2021	Primary Tillage Implements and its working principles	3	10. 0 AM to 12.0 PM	2.0 PM to 3.0 PM	
05.06.2021	Secondary Tillage Implements and time of utilization	3	10. 0 AM to 12.0 PM	2.0 PM to 3.0 PM	Mrs. Ramya K Assistant Professor, HICET- Coimbatore.
07.06.2021	Intercultural Equipment and its advantage in the field of agriculture.	3	10. 0 AM to 12.0 PM	2.0 PM to 3.0 PM	Mrs.Chinju Saju Assistant Professor, HICET- Coimbatore.
08.06.2021	Materials selection and its Importance	4	10. 0 AM to 12.0 PM	2.0 PM to 3.0 PM	Ms.Athira P Assistant Professor, HICET- Coimbatore.

09.06.2021	Types of manufacturing processes and selecting suitable processes for suitable applications.	4	10. 0 AM to 12.0 PM	2.0 PM to 4.0 PM	Mr. Rajan Assistant Professor, Hindusthan Polytechnic College- Coimbatore.
10.06.2021	Workspace design and calculation	6	10. 0 AM to 12.0 PM	2.0 PM to 3.0 PM	Dr.Sridhar ,N Assistant Professor, HICET- Coimbatore
11.06.2021	Workspace design and calculation		10. 0 AM to 12.0 PM	2.0 PM to 3.0 PM	
12.06.2021	Cost of construction and calculation	5	10. 0 AM to 12.0 PM	2.0 PM to 4.0 PM	Dr.Sridhar ,N Assistant Professor, HICET- Coimbatore
14.06.201	Cost of construction and calculation		10. 0 AM to 11.0 AM	-	
15.06.2021	Marketing strategies for sales of Agriculture Implements	4	10. 0 AM to 12.0 PM	-	Er.Selva Kumar, Redlands Ashlyn Motors PLC Coimbatore.
16.06.2021	Marketing strategies for sales of Agriculture Implements		10. 0 AM to 12.0 PM	-	
Total Hours		32			

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DEAN ACADEMICS

Programme	Course Code	Name of the Course	L	T	P	C
B.E.	19VA AG01	Manufacturing of Agricultural Implements	1	0	0	0

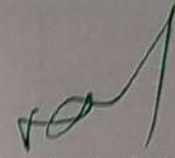
Objective	<ul style="list-style-type: none"> To train our students for employability in core / entrepreneur of a Manufacture of Agricultural implements. To identify suitable materials and manufacture process for agricultural Implements To train in marketing of Agriculture Implements
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Outcome	<p>After completing this programme, students will be able to:</p> <ul style="list-style-type: none"> Understand the working of different types of agricultural implements and their components. Understand the material selection and manufacturing process Practice health and safety at the work place. Understand the marketing principles and know about marketing.
---------	---

S.No	Topic to be Cover	Duration	Staffs
1.	Primary Tillage Implements and its working principles	3	Dr.Sridhar ,N Assistant Professor, HICET- Coimbatore.
2.	Secondary Tillage Implements and time of utilization	3	Mrs. Ramya K Assistant Professor, HICET- Coimbatore.
3.	Intercultural Equipment and its advantage in the field of agriculture.	3	Mrs.Chinju Saju Assistant Professor, HICET- Coimbatore.
4.	Materials selection and its Importance	4	Ms.Athira P Assistant Professor, HICET- Coimbatore.
5.	Types of manufacturing processes and selecting suitable processes for suitable applications.	4	Mr. Rajan Assistant Professor, Hindusthan Polytechnic College- Coimbatore.
6.	Workspace design and calculation	6	Dr.Sridhar ,N Assistant Professor, HICET- Coimbatore
7.	Cost of construction and calculation	5	Dr.Sridhar ,N Assistant Professor,

			HICET- Coimbatore
8.	Marketing strategies for sales of Agriculture Implements	4	Er.Selva Kumar, Redlands Ashlyn Motors PLC Coimbatore.
Total Hours		32	

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Dean Academics/Principal



HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

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Accredited with "A" Grade by NAAC)

COIMBATORE 641 032



DEPARTMENT OF AGRICULTURE ENGINEERING

Student Name List

Student Register Number	Student Name
19111001	ABDUL BAHIZ C A
19111003	ABINAYA R
19111004	ADITYA SHARMA
19111005	AJAY KUMAR M
19111006	ALAGU AKILAN K
19111007	ARAVIND J
19111008	ARDHRA M
19111009	ARUNPANDI P
19111010	ARUNSELVAM A
19111011	BRINDHA S
19111012	CHRISTY JOY E
19111013	DHARSHA P
19111014	DONN P N
19111015	GANESH A
19111016	GOPIKA P
19111017	GUHAN E V
19111018	HARICHANDRABOSE T
19111019	HARIVIGNESH R
19111020	HEERTHINI M
19111021	HEMNATH M
19111022	JOTHIKA M
19111023	KAMESH KIRUBA J
19111024	KAMESHRAJ K
19111025	KARTHEESWARAN P
19111026	KARTHIKEYAN R
19111027	KAVISRI A
19111028	KAVITHASRI K
19111029	KAVIYA K
19111030	KODALI PRANEETH RAYUDU
19111031	MEGHA NAIR K V
19111032	MONIKA G

19111033	MUJIBURRAHUMAN P
19111034	NITU GOURIA
19111035	NIVETHASRI.P
19111036	PAVITHRA SHREEKUMAR
19111037	PRIYANKA V
19111038	RAJARAM K
19111039	RITHIN SUNDAR
19111040	SAJITH GAFFAR B
19111041	SANDRA V
19111042	SANJAY D
19111043	SANKARI M
19111044	SARAVANA PRAVEEN P
19111045	SNEKHA.A.R
19111046	SOUMIYA M
19111047	SOUNDHARYA R
19111048	SOWNDARYA B
19111049	SOZHARAJAN A
19111050	THARANI K.C
19111051	THENNARASU B
19111052	VARSHA S
19111053	VIDHYA S
19111054	VIDHYADHARSHINI M
19111056	DHANALAKSHMI P
19111801	Praveen S. V.

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DEPARTMENT OF AGRICULTURE ENGINEERING

Attendance details of value added course

Student Register Number	Student Name	Year of Studying	Academic Year	SEM	Batch	Attendance Percentage
19111001	ABDUL BAHIZ C A	II Year	2020 - 2021	EVEN	2018-2022	100
19111003	ABINAYA R	II Year	2020 - 2021	EVEN	2018-2022	100
19111004	ADITYA SHARMA	II Year	2020 - 2021	EVEN	2018-2022	85
19111005	AJAY KUMAR M	II Year	2020 - 2021	EVEN	2018-2022	100
19111006	ALAGU AKILAN K	II Year	2020 - 2021	EVEN	2018-2022	100
19111007	ARAVIND J	II Year	2020 - 2021	EVEN	2018-2022	63
19111008	ARDHRA M	II Year	2020 - 2021	EVEN	2018-2022	100
19111009	ARUNPANDI P	II Year	2020 - 2021	EVEN	2018-2022	77
19111010	ARUNSELVAM A	II Year	2020 - 2021	EVEN	2018-2022	39
19111011	BRINDHA S	II Year	2020 - 2021	EVEN	2018-2022	100
19111012	CHRISTY JOY E	II Year	2020 - 2021	EVEN	2018-2022	100
19111013	DHARSHA P	II Year	2020 - 2021	EVEN	2018-2022	85
19111014	DONN P N	II Year	2020 - 2021	EVEN	2018-2022	100
19111015	GANESH A	II Year	2020 - 2021	EVEN	2018-2022	100
19111016	GOPIKA P	II Year	2020 - 2021	EVEN	2018-2022	100
19111017	GUHAN E V	II Year	2020 - 2021	EVEN	2018-2022	100
19111018	HARICHANDRABOSE T	II Year	2020 - 2021	EVEN	2018-2022	31

19111019	HARIVIGNESH R	II Year	2020 - 2021	EVEN	2018-2022	62
19111020	HEERTHINI M	II Year	2020 - 2021	EVEN	2018-2022	100
19111021	HEMNATH M	II Year	2020 - 2021	EVEN	2018-2022	92
19111022	JOTHIKA M	II Year	2020 - 2021	EVEN	2018-2022	100
19111023	KAMESH KIRUBA J	II Year	2020 - 2021	EVEN	2018-2022	100
19111024	KAMESHRAJ K	II Year	2020 - 2021	EVEN	2018-2022	85
19111025	KARTHEESWARAN P	II Year	2020 - 2021	EVEN	2018-2022	100
19111026	KARTHIKEYAN R	II Year	2020 - 2021	EVEN	2018-2022	30
19111027	KAVISRI A	II Year	2020 - 2021	EVEN	2018-2022	100
19111028	KAVITHASRI K	II Year	2020 - 2021	EVEN	2019-2023	85
19111029	KAVIYA K	II Year	2020 - 2021	EVEN	2019-2023	100
19111030	KODALI PRANEETH RAYUDU	II Year	2020 - 2021	EVEN	2019-2023	77
19111031	MEGHA NAIR K V	II Year	2020 - 2021	EVEN	2019-2023	85
19111032	MONIKA G	II Year	2020 - 2021	EVEN	2019-2023	100
19111033	MUJIBURRAHUMAN P	II Year	2020 - 2021	EVEN	2019-2023	100
19111034	NITU GOURIA	II Year	2020 - 2021	EVEN	2019-2023	77
19111035	NIVETHASRI.P	II Year	2020 - 2021	EVEN	2019-2023	92
19111036	PAVITHRA SHREEKUMAR	II Year	2020 - 2021	EVEN	2019-2023	100
19111037	PRIYANKA V	II Year	2020 - 2021	EVEN	2019-2023	100
19111038	RAJARAM K	II Year	2020 - 2021	EVEN	2019-2023	100
19111039	RITHIN SUNDAR	II Year	2020 - 2021	EVEN	2019-2023	100
19111040	SAJITH GAFFAR B	II Year	2020 - 2021	EVEN	2019-2023	85
19111041	SANDRA V	II Year	2020 - 2021	EVEN	2019-2023	100
19111042	SANJAY D	II Year	2020 - 2021	EVEN	2019-2023	100

19111043	SANKARI M	II Year	2020 - 2021	EVEN	2019-2023	100
19111044	SARAVANA PRAVEEN P	II Year	2020 - 2021	EVEN	2019-2023	100
19111045	SNEKHA.A.R	II Year	2020 - 2021	EVEN	2019-2023	100
19111046	SOUMIYA M	II Year	2020 - 2021	EVEN	2019-2023	100
19111047	SOUNDHARYA R	II Year	2020 - 2021	EVEN	2019-2023	100
19111048	SOWNDARYA B	II Year	2020 - 2021	EVEN	2019-2023	100
19111049	SOZHARAJAN A	II Year	2020 - 2021	EVEN	2019-2023	23
19111050	THARANI K.C	II Year	2020 - 2021	EVEN	2019-2023	69
19111051	THENNARASU B	II Year	2020 - 2021	EVEN	2019-2023	38
19111052	VARSHA S	II Year	2020 - 2021	EVEN	2019-2023	100
19111053	VIDHYA S	II Year	2020 - 2021	EVEN	2019-2023	85
19111054	VIDHYADHARSHINI M	II Year	2020 - 2021	EVEN	2019-2023	100
19111056	DHANALAKSHMI P	II Year	2020 - 2021	EVEN	2019-2023	100
19111801	Praveen S. V.	II Year	2020 - 2021	EVEN	2019-2023	38

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HINDUSTHAN

College of Engineering and Technology

(An Autonomous Institution)

Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032



Value Added Course

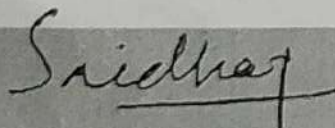
This is to certify that

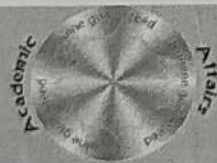
ABDUL BAHIZ C A [19111001] of II Year AGRI ENGG

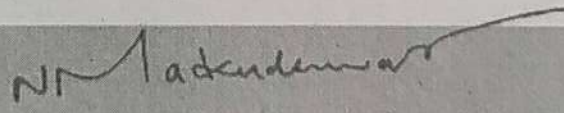
has successfully completed the course

“Manufacturing of Agricultural Implements”

from 03/06/2021 to 16/06/2021 for the period of 32 hours during the EVEN semester of the academic year 2020-2021


HOD




DEAN-ACADEMICS


PRINCIPAL



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DEPARTMENT OF AGRICULTURE ENGINEERING

Name of course:	VALUE ADDED COURSE	Semester:	IV
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FEEDBACK FORM FROM STUDENTS

Time	Full Name	Register Number	Mail id	Overall feedback about the value added course	Content delivery by the resource person	Rate the presentations use for content delivery	Interested topic in the course attended	Would you like to attend similar courses in future?	Suggest topics for courses in future
2021/	Kodali praneeth rayudu	19111030	19111030@hicet.ac.in	Good	Good	3	Manufacturing implements	Yes	
2021/	Kamesh kiruba.J	19111023	19111023.hicet@gmail.com	Very Good	Very Good	4	Sprayers	Yes	
2021/	Hemnath M	19111021	19111021@hicet.ac.in	Good	Good	4	All	Yes	things related to this topic
2021/	Gopika. P	19111016	19111016@hicet.ac.in	Very Good	Very Good	5	Everything	Yes	Digital marketing and
2021/	Kavithasri K	19111028	19111028@hicet.ac.in	Good	Good	4	All	Yes	Agriculture related topic
2021/	Tharani.K.C	19111050	19111050@hicet.ac.in	Excellent	Very Good	4	None	Yes	
2021/	Ganesh A	19111015	19111015@hicet.ac.in	Very Good	Very Good	5	Everything is interested	Yes	Agriculture, digital, technology
2021/	R.Abinaya	19111003	19111003@hicet.ac.in	Excellent	Very Good	5	Yes very interested	Yes	No
2021/	A.R.Snekha	19111045	19111045@hicet.ac.in	Good	Good	4	All	Yes	Idea development
2021/	SANKARLM	19111043	19111043@hicet.ac.in	Good	Good	4	Automation	Yes	

2021	S. Vidhya	19111053	19111053@hicut.ac.in	Excellent	Excellent	5	Designing	Yes	
	DHANALAK						Designing		
2021	SHMLP	19111056	19111056@hicut.ac.in	Excellent	Very Good	5	implements	Yes	
2021	Sandra. V	19111041	19111041@hicut.ac.in	Very Good	Very Good	4	Weeders	Yes	
	PAVITHRA								
2021	SREEKUMA	19111036	19111036@hicut.ac.in	Very Good	Very Good	4	Weeders	Yes	Agriculture course
	R								
2021	Megha Nair kv	19111031	19111031@hicut.ac.in	Very Good	Very Good	5	Weeders	Yes	
2021	Ardhra M	19111008	19111008	Very Good	Very Good	4	Weeders	Yes	
2021	Rithin sundar	19111039	19111039@hicut.ac.in	Good	Good	3	Almost	Yes	

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HOD

Automobile Engineering Department

Automotive Vehicle Fault Diagnosis

24th May to 5th June 2021 (30 Hours)

Department of
Automobile Engineering

Proposal for Value
Added Programme
Submitted to the
Principal through Dean
Academics

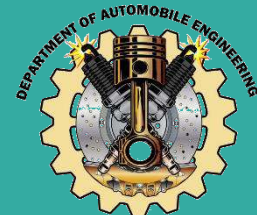
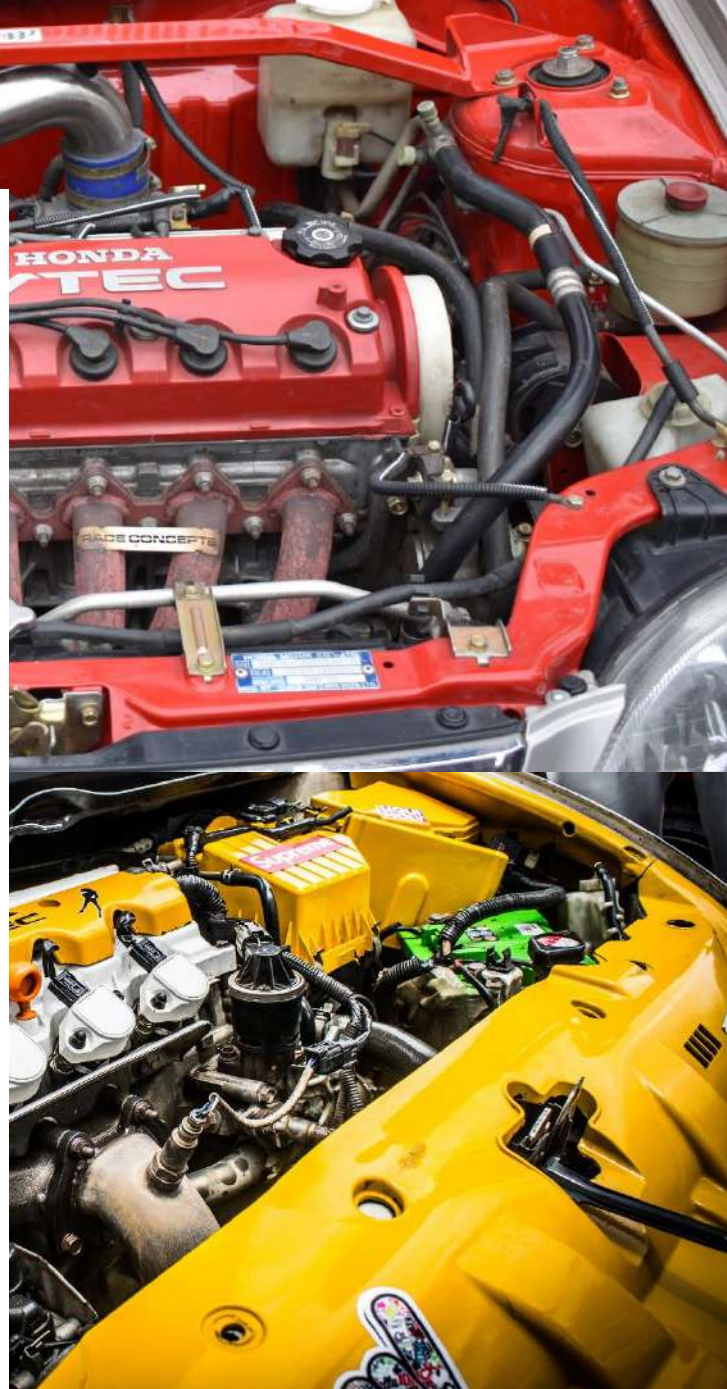


Hindusthan

*College of Engineering and Technology
Coimbatore-641032*

FEBRUARY 22

Team Automobile Engineering



HINDUSTHAN COLLEGE OF
ENGINEERING AND TECHNOLOGY

About the Programme

Diagnostics or faultfinding is a fundamental part of an automotive technician's work. This is one of the most difficult skills to learn. It is also one of the most important. This skill takes a few years to develop, but it is really all about two things: knowledge of the vehicle system and an understanding of the importance of a logical diagnostic process. In this value added programme, we have therefore included some basic technologies and appropriate diagnostic techniques for the specific problems.

Aim of the Programme

This value added programme is designed for the students to create interest in vehicle diagnostic field. As modern vehicles are equipped with electronic control components via vehicle computer. This value added programme enable the student to understand in depth about the functioning of all Automotive Fault Diagnosis from the fundamentals of vehicle systems and components. This also examines the diagnostic principles as well as the latest techniques employed in effective vehicle maintenance and repair. Diagnostics or fault finding is an essential part of an automotive technical work. With increase in automotive systems complex, there is a greater need and opportunity for good diagnostics skilled persons.

Topics to be Covered

1. Automotive Diagnosis and its Techniques
2. Engine Diagnostics
3. Fuel System Diagnostics
4. Emission Diagnostics
5. Brake Diagnostics
6. Steering and Tyres Diagnostics
7. Airbag and Belt Tensioners Diagnostics

Contents

1. Automotive Diagnosis and its Techniques

- a. Introduction to Diagnosis
- b. Safe Working Procedure
- c. Terminology
- d. Introduction to Diagnostic Techniques
- e. Diagnostic Process
- f. Mechanical Diagnostic Techniques
- g. Electrical Diagnostic Techniques

2. Engine Diagnostics

- a. Engine Operations – Basics – 2 & 4 Stroke Engines
- b. Systematic Testing Example
- c. Test Equipment's
- d. Test Results
- e. Engine Fault Diagnosis Table 1
- f. Engine Fault Diagnosis Table 2

3. Fuel System Diagnostics

- a. Introduction to Fuel System
- b. Carburation
- c. Systematic Testing Procedure
- d. Fuel Test Equipments
- e. Test Results
- f. Fuel Fault Diagnosis Table 1 & 2

4. Emission Diagnostics

- a. Introduction to Emission
- b. Exhaust Gas Recirculation
- c. Catalytic Converters
- d. Emission Testing Procedure
- e. Emission Fault Diagnosis Table

5. Brake Diagnostics

- a. Introduction to Brakes
- b. Disc & Hydraulic Brakes
- c. Systematic Testing Procedure
- d. Brake Test Equipments
- e. Brake Test Results
- f. Brake Fault Diagnosis Table 1 & 2

6. Steering and Tyres Diagnostics

- a. Steering Box, Power Assisted Steering
- b. Caster, Camber Angle
- c. Construction of Tubeless Radial Tyre
- d. Systematic Testing Procedure
- e. Test Equipments
- f. Tyre Inflation Pressure
- g. Tyre Fault Diagnosis Table
- h. Steering, Wheel and Tyre Fault Diagnosis Table

7. Airbags and Belt Tensioners Diagnostics

- a. Introduction
- b. Components and Circuits
- c. Seat Belt Tensioner
- d. Systematic Testing
- e. Airbags and Belt Tensioner Fault Diagnosis Table
- f. Deactivation and Activation Procedures

Contents Delivery Plans

Session Timing: 9.30 AM to 11.00 AM & 11.30 AM to 1.00 PM

S.No.	Title of the Content	Date	No. of Hours	Name of the Faculty
1	Introduction to Automotive Diagnosis & Diagnostic Techniques	24.5.2021	3	Dr Sabarinathan C Professor & Head
2	Engine Diagnostics	25.5.2021	3	Prof. Yogaraja J Asst. Professor
3	Fuel System Diagnostics	26.5.2021	3	Prof. Naveenraj D Asst.Professor
4	Audi Car – Diagnosis Methods and Procedure	27.5.2021	2	Mr Naveen Raju A C Audi – Senior Service Manager, Jahnvi Motors Pvt Ltd, Coimbatore
5	Emission Diagnostics	28.5.2021	3	Prof. Krishnaraj D Asst. Professor
6	Brake Diagnostics	31.5.2021	3	Prof. Samuel Gemsprim Asst.Professor
7	Ford Ecosport Diagnosis Methods	1.6.2021	2	Mr Siva Ganesh S Ford Vehicle – Quality Inspector Level 2 Suryabala Ford, Coimbatore

8	Steering and Tyres Diagnostics	2.6.2021	3	Prof. Naresh Mallireddy Asst.Professor
9	Tractor Fault Diagnosis	3.6.2021	2	Mr Arun R Product Trainer – Service Department Kubota Agricultural Machinery India Private Ltd, Chennai
10	Airbags and Belt Tensioners Diagnostics	4.6.2021	3	Prof. Ragu S Asst.Professor
11	Revision and Assessment	5.6.2021	3	Prof. Naresh Mallireddy Asst.Professor
Total Hours of the Programme			30	

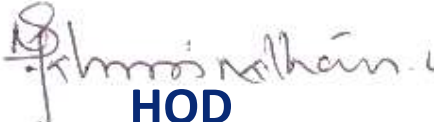
Industry Experts Talk

S.No.	Title of the Content	Date	No. of Hours	Name of the Expert
1	Audi Car – Diagnosis Methods and Procedure	27.5.2021	2	Mr Naveen Raju A C Audi – Senior Service Manager, Jahnvi Motors Pvt Ltd, Coimbatore
2	Ford Ecosport Diagnosis Methods	1.6.2021	2	Mr Siva Ganesh S Ford Vehicle – Quality Inspector Level 2 Suryabala Ford, Coimbatore
3	Tractor Fault Diagnosis	3.6.2021	2	Mr Arun R Product Trainer – Service Department Kubota Agricultural Machinery India Private Ltd, Chennai

Outcome of the Programme

The learner can able to

- Recognize the suitable instrument and tools for diagnosis and testing
- Identify the causes of malfunctioning of an engine and fuel supply systems
- Rectify emission troubles based on symptoms and causes
- Comprehend the suitable method for identify the brake faults and diagnosis
- Identify the causes of not functioning of steering system and recognize the tyre faults and its remedial functions
- Understand the airbag and seat belt tensioner system fault diagnostics for rectifying the errors


HOD

Biomedical Engineering Department



Hindusthan College of Engineering and Technology
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(An Autonomous Institution, Affiliated to Anna University, Chennai)
Valley Campus, Pollachi Highway, Coimbatore-641032

DEPARTMENT OF BIOMEDICAL ENGINEERING

VALUE ADDED COURSE

HICET/BME/2021/ODD/VAC/001

Sub: Request – approval – value added course dates – II & III year – BME –Reg

The department of biomedical engineering planning to conduct value added course on LabVIEW GUI programming with real time application for III year student in fourth semester & object oriented programming language using java for II year students in fourth semester. This course is extremely useful for Biomedical engineering students. This proposed program is given below,

S.No	CLASS	SEM	DATE
1	II year	IV	31.05.2021 to 05.06.2021
2	III year	VI	19.04.2021 to 20.04.2021

H. S. Srinivasan
Co-ordinator

[Signature]
HOD/BME

Course to be delivered

- Introduction to Object Oriented Programming Concepts
- Overview of JAVA Language
- Packages and Imports
- Exception Handling
- Multi-thread Programming

Course Objectives

- To understand the concepts of Object-Oriented Programming
- To learn the fundamental concepts of JAVA
- To gain programming skills in JAVA
- To handle exceptions and multi-thread programming concepts

Google Meet Link:
<https://classroom.google.com/j/AGZwSINdMmRUMFRyOGZlSgE0?hl=en>

Hindusthan College of Engineering and Technology
 Coimbatore 641032, www.hicet.ac.in
 Department of Electronics and Instrumentation Engineering
 &
 Department of Biomedical Engineering organizes

**Value Added Course
 On
 Object Oriented Programming
 using JAVA**

Duration
 31.05.2021
 To
 05.06.2021
 Time
 10am to 12:30pm
 &
 2pm to 4.30pm

Resource Persons
 Mr.D.Magesh
 Associate Prof. Dept.of CSE,HICET
 Ms.A.Gomathy
 Assistant Prof. Dept.of CSE,HICET

Hindusthan College of Engineering and Technology
 Valley campus, Polichchi highway, Coimbatore

DEPARTMENT OF BIOMEDICAL ENGINEERING & ELECTRONICS AND INSTRUMENTATION


VALUE ADDED COURSE ON:
 'Object Oriented Programming Using Java'

Date: 05-06-2021
Time: 10 - 12 pm

Raja Rajan R


Designation: Systems engineer
Role: Java full stack developer
Company: Tata consultancy services

www.hicet.ac.in



Hindusthan College of Engineering and Technology
Valley campus, Pollachi highway, Coimbatore

DEPARTMENT OF : BIOMEDICAL ENGINEERING & ELECTRONICS AND INSTRUMENTATION



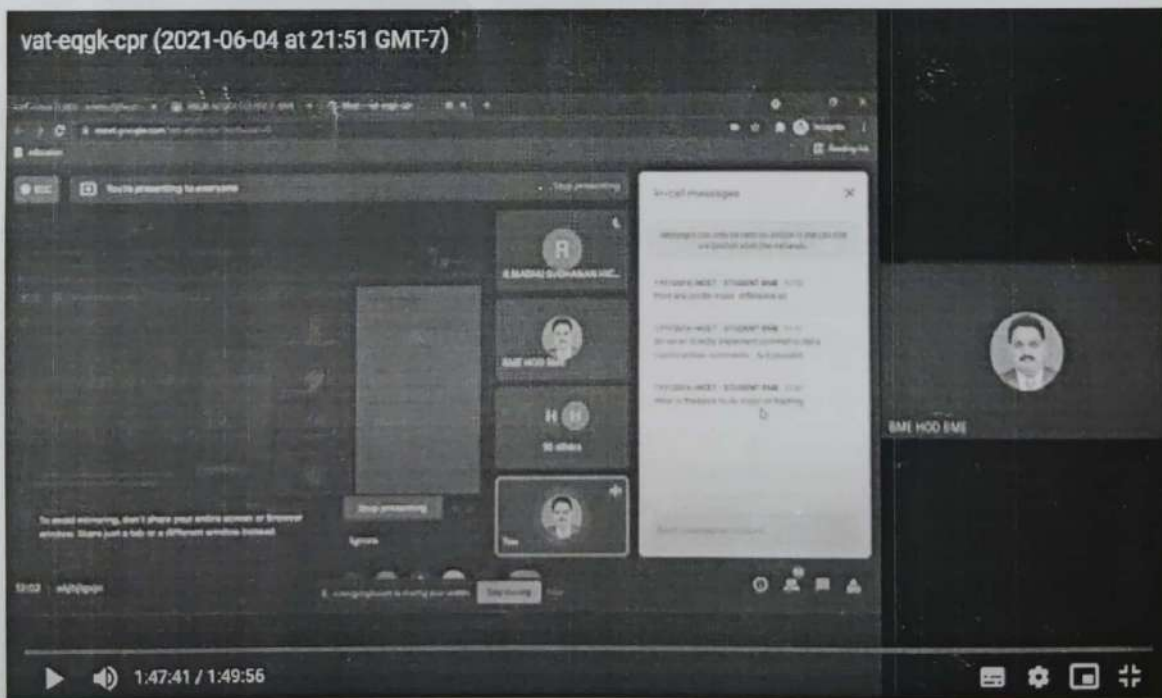
Designation : Associate Software Engineer
Company : Robert Bosch engineering

Mr Patric Phinehas Raj

VALUE ADDED COURSE ON :
'Java in the perspective of a software industry..'

Date : 05-06-2021
Time : 2 - 4 pm

www.hicet.ac.in



SYLLABUS:

EVEN SEMESTER		2 nd SEM	
Node JS, Angular JS, Java Script with MySQL			
Heading	Subheading	Hours	
Introduction	Big Words and AngularJS <u>What is Angular?</u> , <u>Angular vs Angular 2 vs Angular 8</u> , CLI Deep Dive & Troubleshooting, Project Setup and First App, Editing the First App	8	
Model, View, Controller	Module Introduction, How an Angular App gets Loaded and Started, Components are Important! , Creating a New Component ,Understanding the Role of AppModule and Component Declaration ,Using Custom Components , Creating Components with the CLI & Nesting Components , Working with Component Templates ,Working with Component Styles, Fully Understanding the Component Selector ,Practicing Components ,What is Databinding? ,String Interpolation ,Property Binding ,Property Binding vs String Interpolation ,Event Binding ,Bindable Properties and Events ,Passing and Using Data with Event Binding ,Important: FormsModule is Required for Two-Way-Binding!, Two-Way-Databinding, Combining all Forms of Databinding , Practicing Databinding , 1 question, Understanding Directives , Using ngIf to Output Data Conditionally ,Enhancing ngIf with an Else Condition , Styling Elements Dynamically with ngStyle , Applying CSS Classes Dynamically with ngClass , Outputting Lists with ngFor, Practicing Directives , 1 question, Getting the Index when using ngFor	8	
Services and Dependency Injection, Data Binding and Directives	Javascript Aside: Dependency Injection, The Scope Service, Javascript Aside: Functions and Strings, <u>How Does Angular Do Dependency Injection?</u> , Getting Other Services, Javascript Aside: Arrays and Functions, Dependency Injection and Minification Scope and Interpolation, Directives and Two Way Data Binding , Javascript Aside: The Event Loop ,Watchers and the Digest Loop , Common Directives , Common Directives (Part 2) , Javascript Aside: The XMLHttpRequest Object , External Data and \$http	8	

Single Page Applications , Custom Services & Directives	Angular Aside: Multiple Controllers, Multiple Views , HTML and Javascript Aside: Single Page Apps and the Hash , Routing, Templates, and Controllers , Routing Templates and Controller (Part 2) , Javascript Aside: Singletons , Creating a Service, HTML Aside: Reusable Components , Javascript and Angular Aside: Variable Names and Normalization , Angular and Normalized Attribute Names , 1 question Creating a Directive , Templates Scope (@, =, and other obtuse symbols) , Scope(@, =, and other obtuse symbols) (Part 2) , Scope (@, =, and other obtuse symbols) (Part 3) , Repeated Directives , Understanding 'Compile' , Understanding 'Link' , Understanding Transclusion	8
Let's Build an App: A Weather Forecast SPA	A Weather Forecast SPA , A Custom Service , A Note Regarding API Usage , Binding Data (Part 1) , Binding Data (Part 2), A Custom Directive , A Side Note , Improving our SPA's UX With ng-submit , Designing Services in Large AngularJS Applications , Nested Controllers, Clean Code, and 'Controller as' (an alternative to \$scope)	8
Experiment/ Practical	Project: Blog website, Ecommerce website like flipkart/ amazon. After demonstration of project marks will be given by project committee	
		40 Hrs

ABSTRACT:

This is report regarding our value added course which was held from may 31 st june 5 2021 The course was titled as **OOPS USING JAVA** .It is certification course and its mandatory for every students . Two faculty members have held the session sincerely .We had two hours in forenoon session and two hours in afternoon session. Forenoon session was taken by Gomathy mam and the afternoon session was taken by Mahesh sir .Both of them taught the concept of java clearly within such a short period they could give the basics and elaborated it well

First day ,they completed the topic –object oriented programming concept ,taught us about object ,class, method and abstraction, encapsulation, inheritance ,abstract classes ,polymorphism .It was about introduction to java and its concept.

Second day, they make clear about basics of java programming data type , variables , arrays, operation , control structure , statics members, constructor , etc

Then the following day, it was mainly about packages and interfaces . Application programming interfaces was that days main topic

Then on the other day, they made clear about exception handling , fundamental they gave many example about try catch throw and finally we could clearly understand and function

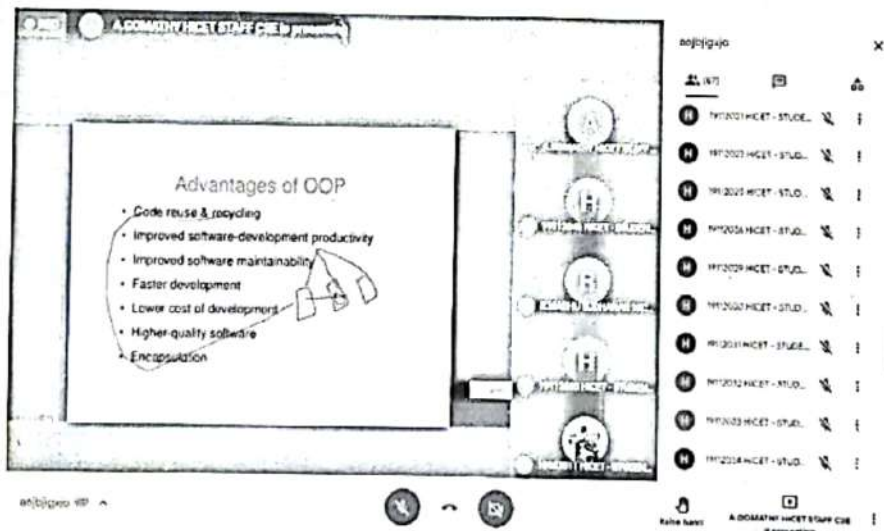
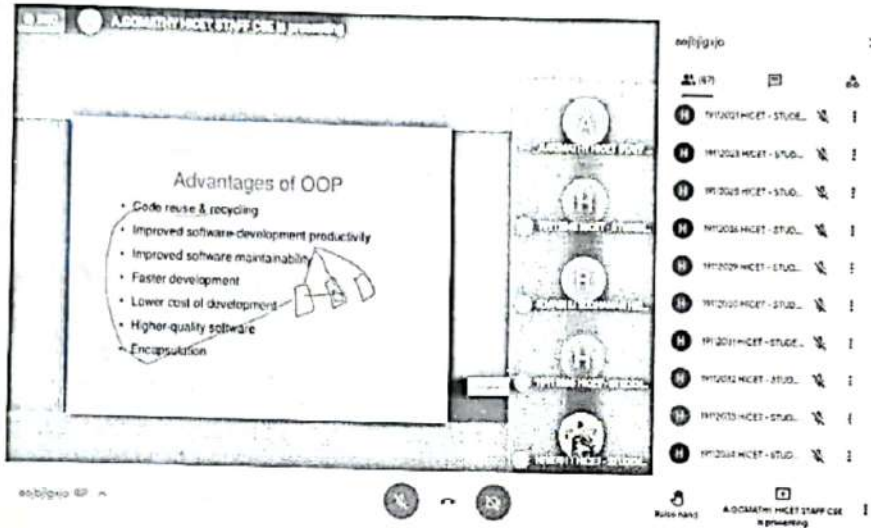
On the last day the topic was thread and multithreading it was clear for us .Then two resource person have done their presentation who had a strong base in java programming ,who were already part of reputed software companies

One resource person is MR.RAJA RAJAN from tata consultancy service whose ride was java full stack developer ,sir was given a nice presentation

Next person named MR. PATRICK PHEIONIH RAJ who was associated with software engineer in Robert bosch .That sir was very friendly he could give a beautiful start and explained and presented concept in good way

EVENT PHOTOS:

DAY 1



DAY 2:

Advantages of OOP

- Code reuse & recycling
- Improved software development productivity
- Improved software maintainability
- Faster development
- Lower cost of development
- Higher quality software
- Encapsulation

Participants list (10 items):

- 191201 HICET - STUD.
- 191202 HICET - STUD.
- 191203 HICET - STUD.
- 191204 HICET - STUD.
- 191205 HICET - STUD.
- 191206 HICET - STUD.
- 191207 HICET - STUD.
- 191208 HICET - STUD.
- 191209 HICET - STUD.
- 191210 HICET - STUD.

Advantages of OOP

- Code reuse & recycling
- Improved software development productivity
- Improved software maintainability
- Faster development
- Lower cost of developers
- Higher quality software
- Encapsulation

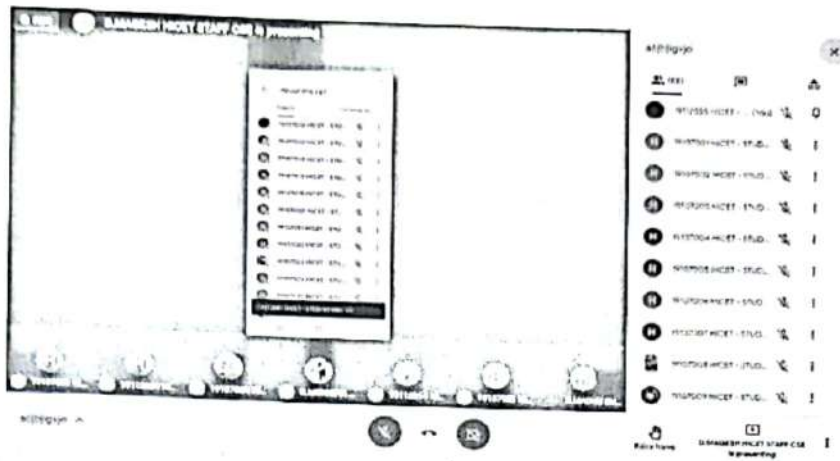
Participants list (10 items):

- 191201 HICET - STUD.
- 191202 HICET - STUD.
- 191203 HICET - STUD.
- 191204 HICET - STUD.
- 191205 HICET - STUD.
- 191206 HICET - STUD.
- 191207 HICET - STUD.
- 191208 HICET - STUD.
- 191209 HICET - STUD.
- 191210 HICET - STUD.

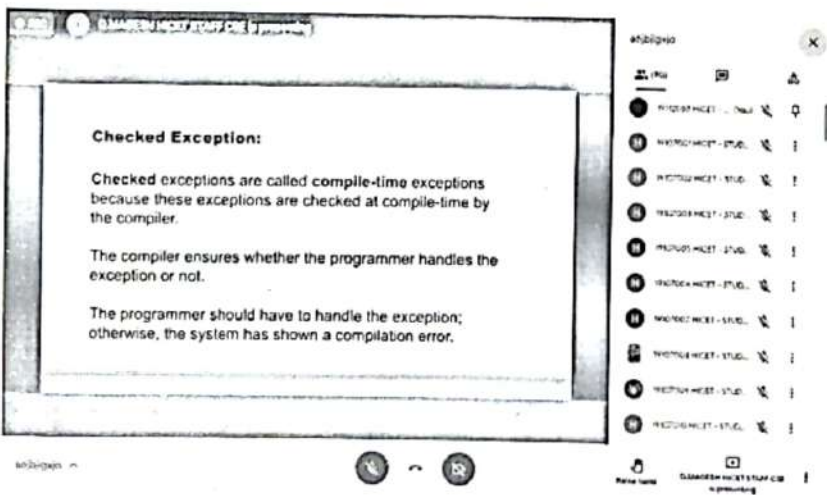
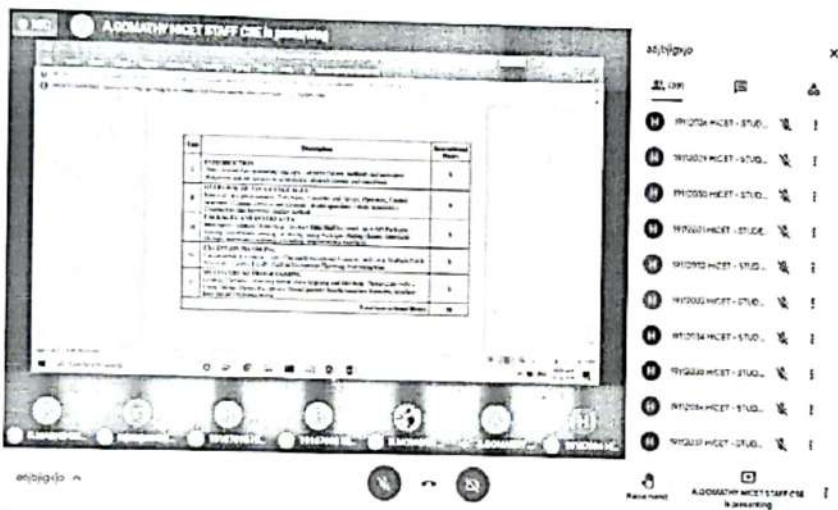
DAY 3

Participants list (10 items):

- 191205 HICET - ...
- 191206 HICET - STUD.
- 191207 HICET - STUD.
- 191208 HICET - STUD.
- 191209 HICET - STUD.
- 191210 HICET - STUD.
- 191211 HICET - STUD.
- 191212 HICET - STUD.
- 191213 HICET - STUD.
- 191214 HICET - STUD.



DAY 4





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Coimbatore – 641 032

DEPARTMENT OF BIOMEDICAL ENGINEERING



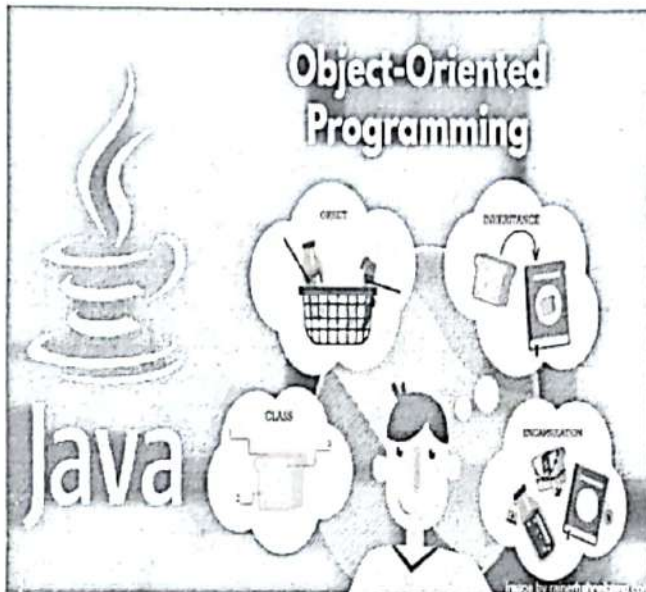
S NO	REG NO	NAME
1	19112001	AAKASH
2	19112003	AARTHI B
3	19112004	ABIJITH R PATEL
4	19112005	ABINAND E SUSHIL
5	19112006	ABIJITH P
6	19112007	ADARSH ASHOGAN T
7	19112008	AJITH S
8	19112009	AKSHAYA M
9	19112010	ALAN ABRAHAM
10	19112011	ANAGHA
11	19112012	ANES HASEER
12	19112013	ARUN M A
13	19112014	ASHIQ VISHNU B
14	19112015	ASHWIN K
15	19112016	DEVA SHEELA CATHERINE R
16	19112017	DEVA KUMAR
17	19112018	DHARSHINI M
18	19112019	DIVYA DHARSHINI K
19	19112020	ELAVARASI
20	19112021	FARIYA AL RAFIYA M
21	19112022	FAYIS IQBAL
22	19112023	GAYATHRI NAIR M
23	19112024	GIRANBEDE
24	19112025	GOKULA SERAN
25	19112026	HARITHA R
26	19112027	HARSHID MOHAMMED
27	19112029	JAYA SURIYA S
28	19112030	JEFIN KURUVILLA
29	19112031	JENIFER JEFREENA
30	19112032	JEYA GANESH M
31	19112033	KAMALEESHWARAN V S R
32	19112034	KARAN M
33	19112035	KOWTHAMAN K
34	19112036	LAKSHANA R
35	19112037	MAHALAKSHMI R
36	19112039	MANOJ M
37	19112040	MOHAMMED ADEL
38	19112041	MOHAMMED MUSFIQUE
39	19112042	MOHAMMED NIHAL
40	19112043	MOHAMMED SAHEER ANAS O

41	19112044	NAVANEETH KRISHNA
42	19112045	NEHEMIAH JENNINGS
43	19112046	PANDI SELVAM
44	19112047	PAPITHA K
45	19112048	PRIJIL SHAJI
46	19112049	PRIYADHARSAN R
47	19112050	RAHUL K S
48	19112051	RISHI E S
49	19112052	SANJAY P
50	19112054	SEEMIHA HUSSAIN
51	19112055	SHIDDHARTH S
52	19112056	SRINITHI
53	19112057	SRIRAM G
54	19112058	SUJITH KUMAR
55	19112059	SYED SADAF JAVID
56	19112060	THILIPAN R
57	19112061	THIRILOK
58	19112062	VASUMITHRA A
59	19112063	VIGNESH
60	19112064	VIMALA DEVI M

Handwritten: B
Anandha kumar. R
AP/BME, HICET.

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HOD/BME

OOPS USING JAVA



31st may to
05th June
2021



DEPARTMENT
OF
BIOMEDICAL
ENGINEERING



Hindusthan

College of Engineering and Technology
Coimbatore-641032

ABSTRACT:

This is report regarding our value added course which was held from May 31st to June 5th 2021 the course was titled as **OOPS USING JAVA**. It is certification course and it's mandatory for every students. Two faculty members have held the session sincerely .We had two hours in forenoon session and two hours in afternoon session. Forenoon session was taken by Gomathy mam and the afternoon session was taken by Mahesh sir .Both of them taught the concept of java clearly within such a short period they could give the basics and elaborated it well.

About the Programme:

To gain practical experience in object oriented design and programming using java in biomedical procedure. This is most important skills to learn. This skill take a year to develop the basic fundamental medical informatics and system based learning in biomedical engineering. In this value added programme we have included some designing and computing techniques for the specific cloud based and medical record development in Biomedical Engineering.

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H. S. B. M. E.

Aim of the Programme

This value added Programme is to build on the content of computer fundamentals and programming 1 by extending your knowledge of skills in more advanced programming concepts using the java language. By completing labs and assignments involving more complex programming skills including data structures, object oriented programming and algorithm design you will improve your understanding of programming and extend the range of what we can achieve in biomedical imaging and signal analysis filed.

Topics to be covered

1. Basic concept of OOPS using Java.
2. Programming concept of JAVA
3. Programming Packages and Interfaces
4. Exception Handling
5. Multi thread programming
6. Biomedical Applications using OOPs concept

Contents

1. Basic concept of OOPS using Java

- a. Introduction
- b. Object oriented programming concepts
- c. Objects-classes
- d. Methods and messages-abstraction
- e. Encapsulation-inheritance-
- f. Abstract classes- polymorphism

2. Programming concept of JAVA

- a. Basics of Java programming,
- b. Data types, Variables and Arrays,
- c. Operators, Control structures
- d. Objects and Methods- access specifiers
- e. Constructors-this keyword-finalize method

3. Programming Packages and Interfaces

- a. Inheritance– Method Overriding
- b. Abstract class-final keyword- Java API Packages
- c. Naming conventions-creating, accessing, using Packages-
Hiding classes.
- d. Interfaces: Multiple inheritance-defining, extending,
- e. Implementing interfaces.

4. Exception Handling

- a. Introduction to signals Fundamentals-Exception types
- b. Uncaught exceptions-Using try and catch-Multiple Catch.
- c. Nested try-Throws-Finally-Built in Exceptions
- d. Throwing own exceptions.

5. Multi thread programming

- a. Creating Threads
- b. Extending thread class-Stopping and Blocking Thread
- c. Life cycle –Using Thread
- d. Thread Exceptions-Thread priority-Synchronization
- e. Runnable Interface
- f. -Inter thread communications

6. Biomedical Applications

- a. Medical Data base management
- b. Smart Healthcare record
- c. Medical Image processing
- d. Biomedical Signal Analysing.

Contents Delivery Plans

S.No.	Title of the Content	Date	No. of Hours	Name of the Faculty
1	Introduction to Basics of OOPs	31.5.2021	2	Mr. D.Mahesh Associate professor/CSE
2	Basic concept of OOPS using Java	31.5.2021	2	Mr. D.Mahesh Associate professor/CSE
3	Programming concept of JAVA - I	31.5.2021	2	Mr. D.Mahesh Associate professor/CSE
4	Programming concept of JAVA - II	1.6.2021	2	Mrs. A.Gomathy Associate professor/CSE
5	Programming Packages and Interfaces-I	1.6.2021	2	Mrs. A.Gomathy Associate professor/CSE
6	Programming Packages and Interfaces-II	1.6.2021	2	Mrs. A.Gomathy Associate professor/CSE
7	Exception Handling - I	2.6.2021	2	Mr.Patric Phinehas Raj Associate software engineer Robert Bosch Engineering
8	Exception Handling - II	2.6.2021	4	Mrs. A.Gomathy Associate professor/CSE
9	Multi thread programming	3.6.2021	4	Mrs. A.Gomathy Associate professor/CSE
10	Biomedical Applications	4.6.2021	4	1. Mr. D.Mahesh Associate professor/CSE 2.Ms.Monisha Assistant professor/BME
11	Revision and Assessment	5.6.2021	2+2	1.Mr. Raja Rajan System Engineer –JAVA/TCS3 2.Mr.Patric Phinehas Raj Associate software engineer Robert Bosch Engineering
Total Hours of the Programme			30	

OVERALL COMMENTS

- First day ,they completed the topic –object oriented programming concept ,taught us about object ,class, method and abstraction, encapsulation, inheritance ,abstract classes ,polymorphism .It was about introduction to java and its concept.
- Second day, they make clear about basics of java programming data type , variables , arrays, operation , control structure , statics members, constructor , etc
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- Next person named MR. PATRICK PHEIONIH RAJ who was associated with software engineer in Robert Bosch .That sir was very friendly he could give a beautiful start and explained and presented concept in good way.

Outcome of the Programme

The learner can able to

- Understand the concepts of Object Oriented Programming.
- Impart the fundamental concepts of core JAVA.
- Enable the students to gain programming skills in JAVA.
- Know how to handle exceptions.
- Understand multithread programming logic.

Regards,

Team Biomedical Engineering.

VALUE ADDED COURSE BROCHURE:

Contents to be delivered

- Introduction to Object Oriented Programming Concepts
- Overview of JAVA Languages
- Packages and Interfaces
- Exception Handling
- Multithread Programming

Course Outcome

- To understand the concepts of Object-Oriented Programming
- To impart the fundamental concepts of JAVA
- To gain programming skills in JAVA
- To handle exceptions and multithread programming concepts

Google Meet Link

<https://classroom.google.com/j/EMZCANTC3N2UAMZK7CCE/s05021>



**Hindusthan College of
Engineering and Technology**

Coimbatore 641032, www.hicet.ac.in

Department of Electronics and Instrumentation

Engineering

&

Department of Biomedical Engineering

organizes

Value Added Course

On

**Object Oriented Programming
using JAVA**

Duration

31.05.2021

To

05.06.2021

Time

10am to 12.30 pm

&

2pm to 4.30pm

Resource Persons


Mr.D.Magesh


Associate Prof., Dept.of CSE,HICET


Ms.A.Gomathy

Assistant Prof., Dept.of CSE,HICET

RESOURCE PERSONS:

 **Hindusthan College of Engineering and Technology**
Valley campus, Pollachi highway, Coimbatore

 **DEPARTMENT OF :** **BIOMEDICAL ENGINEERING & ELECTRONICS AND INSTRUMENTATION**




Designation : Systems engineer
Role : Java full stack developer
Company : Tata consultancy services


VALUE ADDED COURSE ON :
'Object Oriented Programming Using Java'


Date : 05-06-2021
Time : 10 - 12 pm

Raja Rajan R

www.hicet.ac.in

 **Hindusthan College of Engineering and Technology**
Valley campus, Pollachi highway, Coimbatore

 **DEPARTMENT OF :** **BIOMEDICAL ENGINEERING & ELECTRONICS AND INSTRUMENTATION**



Designation : Associate Software Engineer
Company : Robert Bosch engineering

VALUE ADDED COURSE ON :
'Java in the perceptive of a software industry..'

Date : 05-06-2021
Time : 2 - 4 pm

Mr Patric Phinehas Raj

www.hicet.ac.in



HINDUSTHAN
College of Engineering and Technology

(An Autonomous Institution)

Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032

Value Added Course

This is to certify that


NEHEMIAH JENNINGS [19112045] of II Year BME

has successfully completed the course

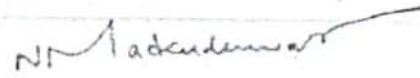
Object Oriented Programming Using JAVA

from 31/5/21 to 5/6/21 for the period of 30 hours

during the **EVEN** semester of the academic year 2020-2021


HOD




DEAN-ACADEMICS


PRINCIPAL

Certificate Number : 2020E112-045



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Coimbatore - 641 032



DEPARTMENT OF BIOMEDICAL ENGINEERING INDEX

S.No	Content	Page Number
1	Name of the Course	1
2	Students Nominal Roll	2
3	Syllabus	3
4	Time table with Date	4
5	Mode of Delivery	5
6	Link of the session	6
7	Assignment Topic & samples	6
8	Students Feedback	7
9	Speaker & Organizer Details	8
10	Course materials	9

Anandha Kumar R
Faculty In-charge

Anandha Kumar R
AP/BME, AICTE

[Signature]
HOD/BME

[Signature]
Dean



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(An Autonomous Institution, Affiliated to Anna University, Chennai)
Valley Campus, Pollachi Highway, Coimbatore-641032

DEPARTMENT OF BIOMEDICAL ENGINEERING

VALUE ADDED COURSE

HICET/BME/2021/ODD/VAC/001

Sub: Request – approval – value added course dates – II & III year – BME –Reg

The department of biomedical engineering planning to conduct value added course on LabVIEW GUI programming with real time application for III year student in fourth semester & object oriented programming language using java for II year students in fourth semester. This course is extremely useful for Biomedical engineering students. This proposed programme schedule is given below,

S.No	CLASS	SEM	DATE
1	II year	IV	31.05.2021 to 05.06.2021
2	III year	VI	19.04.2021 to 20.04.2021

[Signature]
Co-ordinator

[Signature]
HOD/BME

LABVIEW GUI PROGRAMMING WITH REALTIME APPLICATION

Heading	Subheading	Hours
Course Objectives	<ul style="list-style-type: none"> ❖ To transmute Electronics/Electrical/Instrumentation & control Engineer to Lab VIEW design Engineer ❖ To impart basic Logical thinking knowledge on Lab VIEW for simulation & control ❖ To program, simulate & control for every product in R&D. 	
INTRODUCTION: - Advantages of a Virtual Instrument – Lab VIEW Software Overview - graphical user interfaces – data types – data flow programming, editing, debugging and running a virtual instrument - General functional description of a digital instrument - block diagram of a virtual instrument - physical quantities and analog interfaces - hardware and software - user interfaces - advantages of virtual instrumentation over conventional instruments - architecture of a virtual instrument and its relation to the operating system.		5
G PROGRAMMING : Graphical programming palettes and tools – front panel objects – Functions and libraries - Controls, Indicators, Labels and Text - Shape – size and colour – owned and free labels - Data type, format, precision and representation - Software environment - palettes - data types and colour coding - editing, debugging and running a vi –data flow programming - modular programming - loops - local and global variables.		5
PROGRAMMING STRUCTURE : For loop, While loop, Case structure, Flat Sequence- Arrays and clusters - sequence structures - plotting data – Chart, Graph, XY Graph - making decisions in a vi - strings and File I/O - - TCP/IP - shared variables - data publishing – state machines		5
HARDWARE OVERVIEW: PC architecture: current trends - operating system requirement Creating board file. drivers - interface buses – DAQ – Arduino Interface with LabVIEW – LIFE Interface		5
DATA AQUISITION: Classification of signals - analog and digital interfacing - DAQ hardware and software - configuring the hardware - ADC, DAC, Digital I/O, counters and timers - advanced triggering of audio and video signals - basic system components of a signalconditioning system.		5
ARDUINO & DAQ INTERFACE WITH LABVIEW: Arduino UNO – DAQ – LM35 –Relay – Buzzer – Servo Motor – Data Acquisition – Data Control – Real-time Application –Temperature measurement & control.		5
APPLICATIONS: Biomedical Application: Temperature measurement – Pressure – Flow – Robotic Arm Simulation – Image processing using LabVIEW - Use of analysis tools: Fourier transforms - power spectrum - correlation methods - windowing and filtering – image acquisition and processing - networking basics for office and industrial application - VISAand IVI.		5
Course outcome <ul style="list-style-type: none"> ❖ Ability to understand the basic working principle of Lab VIEW software. ❖ Ability to comprehend the knowledge on the different instruments I/O for the appropriate application. 		-
Total Contact Hours : 35		



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DEPARTMENT OF BIOMEDICAL ENGINEERING

Attendance Value added course

S.No	Reg No	Student Name	Month	Apr-2021					Total Hours Handled	Total Hours Present
			Date	19	20	21	22	23		
			Hour	1	7	3	4	1		
1	18112002	AJIN RAJ R G		P	P	P	P	P	35	35
2	18112004	AKHIL P		P	P	P	P	P	35	35
3	18112005	AKSHARA R		P	P	P	P	P	35	35
4	18112006	AMAL STEFY ROSE R		P	P	P	P	P	35	35
5	18112007	AROMAL O V		P	P	P	P	P	35	35
6	18112008	ATHIRA RAJU		P	P	P	P	P	35	35
7	18112009	BHARATHI B		P	P	P	P	P	35	35
8	18112011	CHARUSRFE K		A	A	P	P	A	35	14
9	18112012	DEEPIKA D		P	P	P	P	P	35	35
10	18112013	DEEPIKA K		P	P	P	P	P	35	35
11	18112014	DHARANI P		P	P	P	P	P	35	35
12	18112015	DHARSAN K K		P	P	P	P	P	35	35
13	18112016	DINESH BABU K		P	P	P	P	P	35	35
14	18112017	EBIN MATHEW OOMMEN		A	P	P	P	P	35	28
15	18112018	EZHILARASI S		P	A	P	P	P	35	28
16	18112019	GOWRI B		A	A	A	A	P	35	7
17	18112020	HARILARAN R		P	P	P	P	P	35	35
18	18112021	HELAN CHRISTY M		P	P	P	P	P	35	35
19	18112022	INBARASAN V		P	A	A	P	P	35	21
20	18112023	JAMES SABU		P	P	P	P	P	35	35
21	18112024	JANANI V		P	P	P	P	P	35	35
22	18112025	KAMALESH KUMAR.P.S		P	P	P	P	P	35	35
23	18112026	KAREEMUL RAFIUDEEN M.R		P	P	P	P	P	35	35
24	18112027	KAVIN BHARATHI R		P	A	P	P	P	35	28
25	18112028	KAWASKAR S		P	A	P	A	A	35	14
26	18112029	KEERTI ANA B		P	P	P	P	P	35	35
27	18112030	KEERTHANA L		P	P	P	A	P	35	28
28	18112031	KRISHNAVENI R		P	P	P	P	P	35	35
29	18112032	MANO ALAGAMMAI SP		P	P	A	P	P	35	28
30	18112033	MANO RANJITHAM R		P	A	P	P	P	35	28
31	18112034	MOHAMAD ANSIL		P	P	P	A	P	35	28
32	18112035	MOHAMED ASHIK U		P	P	P	A	P	35	28
33	18112036	MOHAMED FAWAZ		P	A	A	P	P	35	21
34	18112037	MUTHU MEENAKSHI R		P	P	P	P	P	35	35
35	18112038	NANDHINI S		P	P	P	P	P	35	35
36	18112039	NANDHINI S		P	P	P	P	P	35	35
37	18112040	PANKAJ V		P	P	A	P	P	35	28
38	18112041	PAVITHRA R		P	P	P	P	P	35	35
39	18112042	POVESH M		P	P	P	P	P	35	35
40	18112043	PRABHAKARAN V		P	P	P	P	P	35	35
41	18112044	SANJAYKUMAR R		P	A	P	P	P	35	28
42	18112045	SARASWATHI S K		P	P	P	A	P	35	28
43	18112046	SELVA SINDHUJA R		P	P	P	P	P	35	35
44	18112047	SHIROSHINI M		P	P	P	P	P	35	35
45	18112048	SNEHA B NAIR		P	A	P	P	P	35	28
46	18112049	SIUBASHINI R		P	P	P	P	P	35	35
47	18112050	SUGINA SUDHAKARAN		P	P	A	A	P	35	35
48	18112051	SURYAR		P	A	A	P	P	35	21
49	18112052	THAMOTHARAN M		P	P	P	P	P	35	35
50	18112053	TOHIN VELLANAL		P	P	P	P	P	35	35
51	18112054	VARSHINI E		P	P	P	P	P	35	35
52	18112055	VIGNESH P S		P	P	P	P	A	35	28
53	18112056	WASIM AKRAM M		P	P	A	P	P	35	28
54	18112057	AJUMAL HASSAN.T.T		P	A	A	P	P	35	21

[Signature]
 Faculty coordinator

[Signature]
 HOD/BME

Anandha Kumar. R
 AP/BME, HICET



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DEPARTMENT OF BIOMEDICAL ENGINEERING TIME TABLE

Day - 1

Date	19.04.2021	Topics
Session - 1	9.30 to 11.00	Introduction to LabVIEW
Break-1	11.00 to 11.15	
Session - 2	11.15 to 1.00	User Interface - Graphical Representation
Lunch	1.00 to 2.00	
Session -3	2.00 to 3.00	Programming Structures -I
Break -2	3.00 to 3.15	
Session - 4	3.15 to 4.15	Programming Structures -II
Session -5	4.15 to 4.30	Assignment - Discussion

Day -2

Date	20.04.2021	Topics
Session - 1	9.30 to 11.00	Hardware Overview
Break-1	11.00 to 11.15	
Session - 2	11.15 to 1.00	DAQ- Acquisition
Lunch	1.00 to 2.00	
Session -3	2.00 to 3.00	DAQ- Acquisition Interfacing
Break -2	3.00 to 3.15	
Session - 4	3.15 to 4.15	Biomedical Applications using LabVIEW
Session -5	4.15 to 4.30	Assignment - Discussion



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DEPARTMENT OF BIOMEDICAL ENGINEERING

S.No	Content	Response
1	Mode of Delivery	Online
2	Online class Link – Day 1 Morning	https://meet.google.com/uii-ogtw-rzo
3	Online class Link – Day 1 Afternoon	https://meet.google.com/twt-zbpj-xkb
2	Online class Link – Day 2 Morning	https://meet.google.com/awa-zqfh-trc
3	Online class Link – Day 2 Afternoon	https://meet.google.com/ehq-uyqi-jbc

Assignments

1	Assignment Topic 1	Basic Numerical calculation
2	Assignment Topic 2	Biomedical Temperature sensor



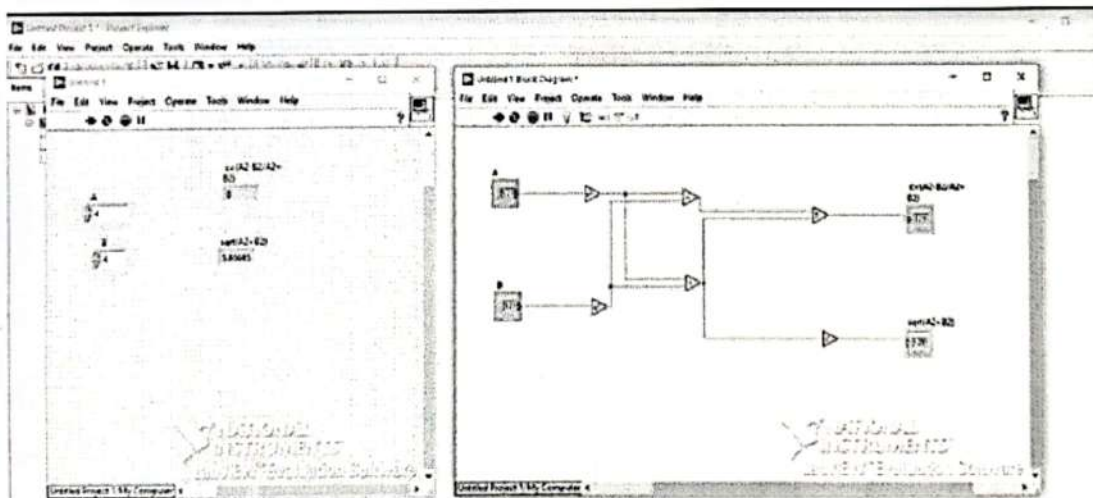
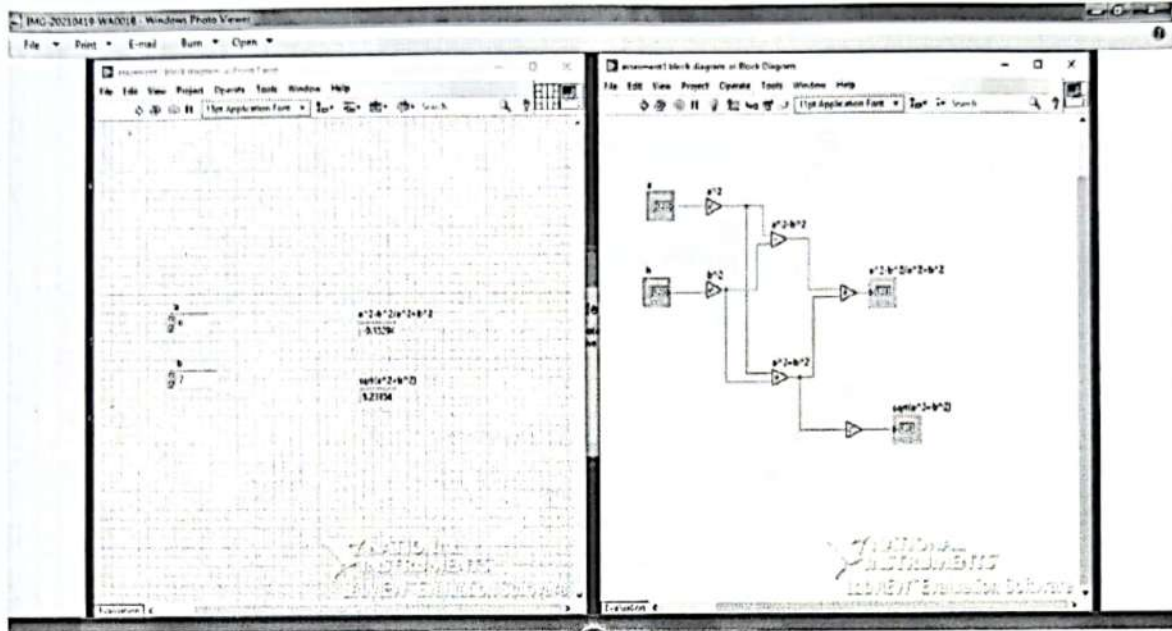
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DEPARTMENT OF BIOMEDICAL ENGINEERING

Assignment samples 1 & 2



Assignment -2

The screenshot shows a software interface with two main panels. The left panel displays a handwritten mathematical expression:
$$y = \frac{(x^2 + 2x + 1)(x^2 + 3x + 2)}{(x^2 + 4x + 4)}$$
 with intermediate steps:
$$y = \frac{(x+1)(x+2)(x+1)(x+2)}{(x+2)(x+2)}$$
 and
$$y = \frac{(x+1)^2(x+2)}{(x+2)}$$
. The right panel shows a logic diagram implementing this expression using logic gates (AND, OR, NOT) and multipliers. The diagram includes inputs for 'Number 1' through 'Number 6' and outputs for 'y1' and 'y2'. A watermark for 'TUTORIALS POINT' is visible in the bottom right corner.

Assignment-2

The screenshot shows a software interface with two main panels. The left panel displays a handwritten mathematical expression:
$$y = \frac{(x^2 + 2x + 1)(x^2 + 3x + 2)}{(x^2 + 4x + 4)}$$
 with intermediate steps:
$$y = \frac{(x+1)(x+2)(x+1)(x+2)}{(x+2)(x+2)}$$
 and
$$y = \frac{(x+1)^2(x+2)}{(x+2)}$$
. The right panel shows a logic diagram implementing this expression using logic gates (AND, OR, NOT) and multipliers. The diagram includes inputs for 'Number 1' through 'Number 6' and outputs for 'y1' and 'y2'. A watermark for 'TUTORIALS POINT' is visible in the bottom right corner.



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Department of Biomedical Engineering and Students Association

Jointly Organizing

Two days workshop on

"Innovation in biosensor applications using LabVIEW"

[An IIC Self Driven Activity]



CO-ORDINATORS
S.Shobha Christila, AP/BME

CONVENOR
Dr.S.Saravana Sundaram
HoD/BME

APRIL
19 & 20
2021

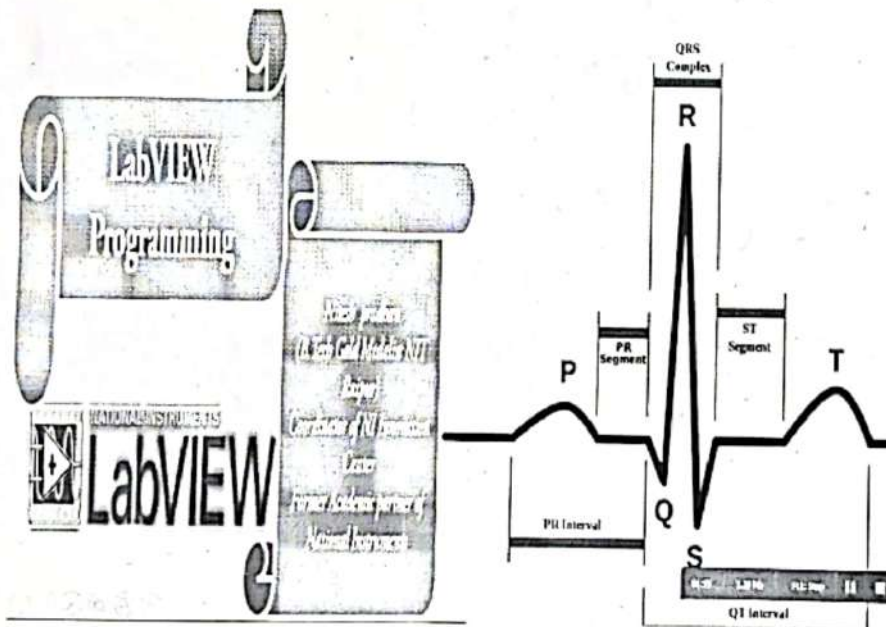
<https://meet.google.com/twt-zbpj-xkb>

Arundha Kumar . R
AP/BME.

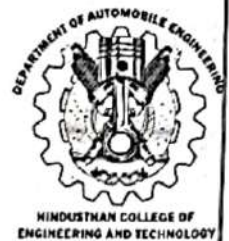
DEPARTMENT OF BIOMEDICAL
ENGINEERING

APRIL
19th & 23th
2021

LabVIEW GUI Programming with real time Applications



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About the Programme

Diagnostics or designing of fundamental part of a biomedical techniques. This is one of the most important skills to learn. This skill takes a few years to develop, but it is really all about two things: knowledge of the biomedical system and an understanding of the importance of a clinical diagnostic process. In this value added Programme, we have therefore included some basic technologies and appropriate diagnostic techniques for the specific designing concepts.

Aim of the Programme

This value added Programme is designed for the students to create interest in medical diagnostic field. As modern medical instruments are equipped with electronic control components via computer. This value added Programme enable the student to understand in depth about the functioning of all medical equipment Diagnosis from the fundamentals of Instrumentation systems and components. This also examines the diagnostic principles as well as the latest techniques employed in effective maintenance and repair. Diagnostics or designing is an essential part of a technical work in the field of medical device management. There is a greater need and opportunity for good diagnostics skilled persons.

J. J. J.
HOD/BME

Topics to be covered

1. Basic concept of biomedical tool LabVIEW
2. Simulation and graphical programming
3. Programming design loops and Plotting
4. Data acquisition system
5. Programming Interfacing module
6. Biomedical Image Processing

Contents

- 1. Basic concept of biomedical tool LabVIEW**
 - a. Introduction to LabVIEW
 - b. Description of Digital Instruments Designing
 - c. Terminology
 - d. Introduction to Diagnostic Techniques
 - e. Diagnostic Process – Debugging
 - f. Hardware analysis
 - g. LabVIEW Diagnostic Techniques
- 2. Simulation and graphical programming**
 - a. Basic simulation operation
 - b. Software environment
 - c. Data types and coding
 - d. Modular programming

3. Programming design loops and Plotting

- a. Introduction Design concept
- b. Representation
- c. Systematic Testing Procedure
- d. String & File I/O

4. Data acquisition system

- a. Introduction to signals
- b. DAQ Hardware and software
- c. Counter and Timers
- d. Audio and video signals
- e. Signal Conditional unit.

5. Programming Interfacing module

- a. Analog and Digital Interfacing
- b. LM35 & relay Interfacing
- c. Systematic Testing Procedure
- d. Temperature measurement

6. Biomedical Applications

- a. Pressure measurement
- b. Robotic Arm simulation
- c. Medical Image processing
- d. Biomedical Signal Analyzing.

Contents Delivery Plans

S.No.	Title of the Content	Date	No. of Hours	Name of the Faculty
1	Introduction to Basics of LabVIEW	19.4.2021	2	Mr.Anandhakumar.R Assistant professor / BME
2	Description of Digital Instruments Designing	19.4.2021	2	Mr.Anandhakumar.R Assistant professor / BME
3	Introduction to Diagnostic Techniques	19.4.2021	2	Mr.Vinoth kumar.R Assistant professor / EIE
4	Hardware analysis	20.4.2021	2	
5	LabVIEW Diagnostic Techniques	20.4.2021	2	Mr.Vinoth kumar.R Assistant professor / EIE
6	Simulation and graphical programming	21.4.2021	2	Mr.Vinoth kumar.R Assistant professor / EIE
7	Programming design loops and Plotting	21.4.2021	2	
8	Data acquisition system	22.4.2021	4	Mr.Anandhakumar.R Assistant professor / BME
9	Programming Interfacing module	22.4.2021	4	Mr.Vinoth kumar.R Assistant professor / EIE
10	Biomedical Applications	23.4.2021	4	Mr.Vinoth kumar.R Assistant professor / EIE
11	Revision and Assessment	23.4.2021	4	Mr.Anandhakumar.R Assistant professor / BME
Total Hours of the Programme			30	

Outcome of the Programme

The learner can able to

- Recognize the suitable instrument and tools for designing using LabVIEW.
- Ability to understand the basic working principle of LabVIEW.
- Identify the causes of system malfunction.
- Rectify the troubles based on symptoms and causes in medical Instruments.
- Easily designed biomedical Signal comparison for medical cases under biomedical tool kit.
- Understand the medical equipment designing and fault diagnostic systems for rectifying the errors

Regards,

Team Biomedical Engineering

Chemical Engineering Department



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CIRCULAR

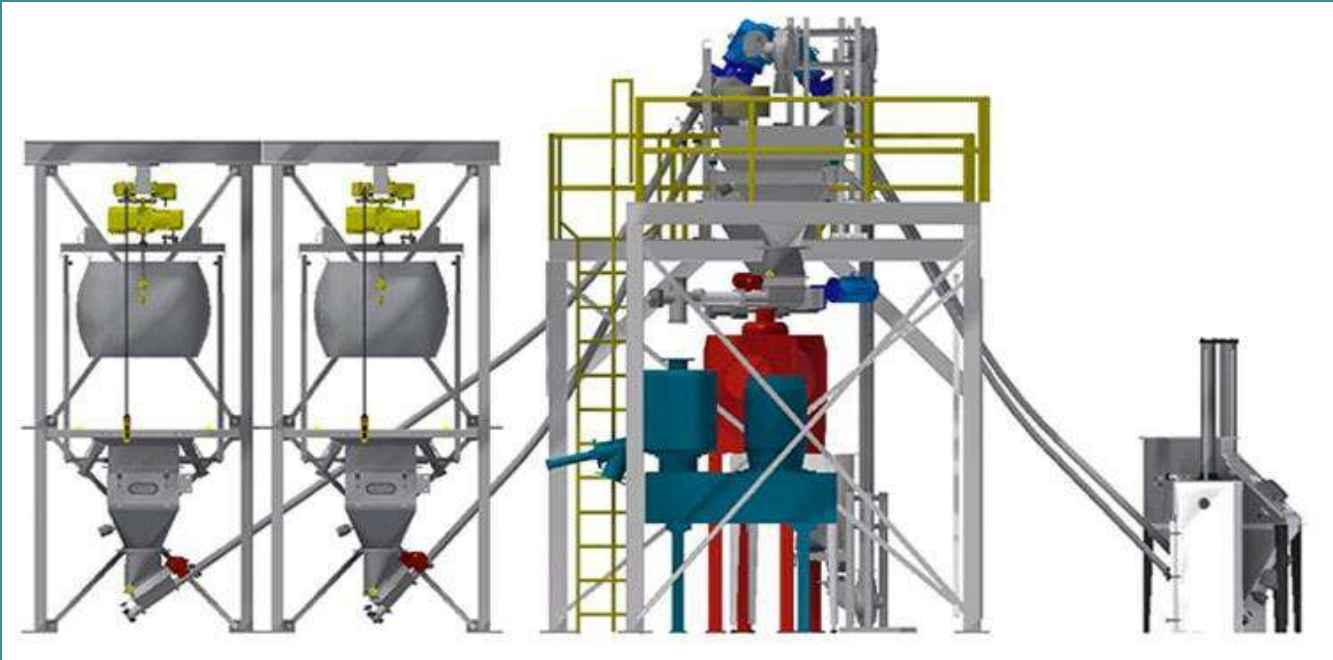
3.05.2021

This is to inform that a Value Added Course on “**BULK SOLID HANDLING FOR CHEMICAL ENGINEERS**” will be conducted for II year Chemical Engineering students (2019 batch) from 26.05.2021 to 9.06.2021 in online mode.

Head of the Department
Chemical Engineering

File

1. Dean office
2. Department file



VALUE ADDED COURSE ON
“BULK SOLID HANDLING FOR CHEMICAL ENGINEERS”

26TH MAY TO 09TH JUNE 2021

COURSE COORDINATOR
Ms INDUJA P, AP/CHEM ENGG

DEPARTMENT OF CHEMICAL ENGINEERING

PROPOSAL FOR VALUE ADDED COURSE
SUBMITTED TO THE PRINCIPAL THROUGH DEAN ACADEMICS



Hindusthan

College of Engineering and Technology
Coimbatore- 641032

25th May2021

COURSE OVERVIEW

As Chemical Engineers, our principal aim is to enrich the materials by selecting them wisely and optimizing the building blocks of profession unit operations. Nevertheless, our efforts can be undermined if the flow is not controlled when unit operations are featured bulk solids value. The flow of bulk solids is complex and it is not covered in undergraduate courses.

This value-added course has been specially tailored for chemical engineers and covers the credibility gap by providing fundamental understanding of bulk solids flow behavior with simple and practical methods to avoid common mistakes.

WHO WILL GET GAIN?

This course is designed for chemical engineers and allied professionals to study about detailed design, safety and environment aspects, commissioning of value chain and equipment procurement to handle bulk solids. And also, the persons who involved to solve and prevent the flow problems.

COURSE CONTENT

S. No	TOPIC	CONTENTS
1.	Introduction on bulk solid and handling of bulk solids	<p>Concepts and role of unit operation in process industries, Introduction on bulk solid and handling of bulk solid.</p> <ul style="list-style-type: none"> • Explanation in coal industry.
2.	Classification and Flow ability	<p>Particle shape, particle size, classification of bulk solids, comparison of solids and liquids in flow ability of solids.</p> <ul style="list-style-type: none"> • Explanation of Iron and Steel Industries
3.	Bulk solid flow	<p>Hourglass flow, flow through model deflector, flow patterns, bulk solid flow differ from fluid flow, wall friction, compressibility, permeability, and other properties affect the flow of solids through various types of feeders, blenders, chutes, bins, and hoppers.</p>
4.	Mixing	<p>Reduction of segregation, sampling, size reduction, energy requirement and product size distribution, mixing and agitation - mixing of liquids (with or without solids), mixing of powders, selection of suitable mixers.</p>
5.	Blending and Segregation	<p>Blending- convection, diffusion, blend quality, segregation testing of powders and solids-fluidization, shifting, vibration.</p> <ul style="list-style-type: none"> • Explanation of mining industry
6.	Bulk Solid handling Fertilizer Plants	<p>Process Flow diagram, equipment specification process, parameters, control the process and case study.</p> <ul style="list-style-type: none"> • Explanation of fertilizer industry for bulk handling
7.	Solid bulk material handling in Refineries & Petrochemical plant	<p>Practical Application and role of chemical engineers in Solid bulk material handling in Refineries & Petrochemical plant, Equipment's used in refineries.</p> <ul style="list-style-type: none"> • Explanation of Refinery Industries
8.	Case study, Group Discussion & Assessment	<ul style="list-style-type: none"> • Transfer Chute Plugging Solved at Iron Ore Export Terminal • Gypsum Flow Problems Solved at Lafarge Cement • Coal Feeding: Pressure-Sealing Solids Pump Improves Feed

DELIVERY PLAN

Timing: 9.30 AM to 11.00 AM & 11.30 AM to 1.00 PM

S.No	TITLE OF THE CONTENT	DATE	NO. OF HOURS	RESOURCE PERSON
1.	Introduction on bulk solid and handling of bulk solids	26.05.2021	3	Ms Induja P AP/Chem Engg., HICET
2.	Classification and Flow ability	27.05.2021	3	Ms Induja P AP/Chem Engg., HICET
3.	Bulk solid flow	28.05.2021	3	Mr Rajkumar A AP/Chem Engg., HICET
4.	Flow of solid through various types	31.05.2021	3	Mr Rajkumar A AP/Chem Engg., HICET
5.	Mixing	01.06.2021	3	Dr Seenuvasan M Professor & Head/Chem Engg., HICET
6.	Bulk Solid handling Fertilizer Plants	03.06.2021	3	Mr Mohan Raj V Assistant Manager, Shift Incharge-Ammonia Plant, SPIC
7.	Solid bulk material handling in Refineries & Petrochemical plant	04.06.2021	3	Mr Jibu B Thomas Commissioning Engineer, Hyundai Engineering Company Limited, South Korea
8.	Blending and Segregation	07.06.2021	3	Dr Sathish Kumar K Associate Professor, SSN College of Engineering
9.	Case study	08.06.2021	3	Ms Induja P AP/Chem Engg., HICET
10.	Group Discussion & Assessment	09.06.2021	3	Ms Induja P AP/Chem Engg., HICET
Total Hours			30	

EXPERT SESSIONS (OUTSIDE OF HICET)

S.No	Title of the Content	Date	No. of Hours	Details of the Expert
1.	Bulk Solid handling Fertilizer Plants	03.06.2021	3	Mr Mohan Raj V Assistant Manager, Shift Incharge-Ammonia Plant, SPIC
2.	Solid bulk material handling in Refineries & Petrochemical plant	04.06.2021	3	Mr Jibu B Thomas Commissioning Engineer, Hyundai Engineering Company Limited, South Korea
3.	Blending and Segregation	07.06.2021	3	Dr Sathish Kumar K Associate Professor, SSN College of Engineering

LEARNING OUTCOMES

Participants will find out why and how classic bulk material flow difficulties take place by:

- Cover extensive equipment types and the solutions to flow problems linked with each of them.
- Gain the knowledge on wall friction, cohesive strength, squeezability, porosity and other properties which affect the solids flow through various feeders, liquidizers, bins, hoppers and slides.
- Identify how to specify and select hardware recommended for bulk solid flow problems and objectives; also, to remodel of equipment to correct the flow problems.
- Identify the handling of solid materials in fertilizer industry, Refinery Industry and the equipment's used in varying configurations in order to meet their specific needs
- Identify and solve flow problems which involve production lost, extra labor, unreliable equipment, poor quality control, downtime of plant and waste material.

HOD

DEAN – ACADEMICS

PRINCIPAL



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**DEPARTMENT OF
CHEMICAL ENGINEERING**

Value Added Course

Expert Session

02.05.2021



Dr Sathish Kumar K
Associate Professor,
SSN College of Engineering



Valley Campus, Pollachi Highway, Coimbatore
www.hicet.ac.in





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04.05.2021



Mr Jibu B Thomas

Commissioning Engineer,
Hyundai Engineering Company
Limited,
South Korea



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03.05.2021



Mr Mohan Raj V

Assistant Manager,
Shift Incharge-Ammonia Plant, SPIC



Valley Campus, Pollachi Highway, Coimbatore
www.hicet.ac.in



DEPARTMENT OF CHEMICAL ENGINEERING

LIST OF STUDENTS

S.NO	REG.NO	NAME OF THE STUDENT	STUDENT MOBILE NO	E-MAIL ID
1	19114001	ABEL T VARGHESE	6282150815	19114001@hicet.ac.in
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36	19114038	NESSOAK KARTHI G J	9597523081	19114038@hicet.ac.in
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39	19114041	PRAVEEN P	7598680918	19114041@hicet.ac.in
40	19114042	RAHUL R	8056316965	19114042@hicet.ac.in
41	19114043	RAJADHAYALAN M	9344938796	19114043@hicet.ac.in
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CLASS ADVISOR

HOD/CHEMICAL

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DEPARTMENT OF CHEMICAL ENGINEERING

ATTENDANCE LIST

S.NO	REG.NO	NAME OF THE STUDENT	HOURS ATTENDED (36)
1	19114001	ABEL T VARGHESE	30
2	19114002	ABHIMANUE R PAGEL	32
3	19114003	AGILESHWAR J	34
4	19114004	ANTONY ABRAHAAM A	33
5	19114005	ARIHARAN C	35
6	19114006	ARUN KUMAR R	35
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19	19114020	KABIN KUMAR R	33
20	19114021	KARTHICK L	36
21	19114022	KAVIRANGITH T	34
22	19114023	KIRUBASHINI E	33


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23	19114024	KRISHNA NANDANA P N	36
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41	19114043	RAJADHAYALAN M	35
42	19114044	RAVINDHIRAN M	33
43	19114045	SAKTHIVEL V	36
44	19114046	SANJAYKUMAR S	34
45	19114047	SHARON CHRISTINA A	35
46	19114048	SOORYA KRISHAN .S	32
47	19114049	SREEHARI MADHAVAN	31
48	19114050	SUBILA J	35
49	19114051	SUGASHINI K	35
50	19114052	SUHAAS M	35

S.NO	REG.NO	NAME OF THE STUDENT	HOURS ATTENDED (36)
51	19114053	SURYA A	33
52	19114055	VELMURUGAN S	36
53	19114056	VIKRAM R	33
54	19114801	KEERTHI VASAN C	36
55	19114802	PRAVEEN KUMAR M	34
56	19114803	SIVABALAN S	33
57	19114804	UJJUEL S	30



HOD/CHEMICAL


Image of the Event Brochure



VALUE ADDED COURSE ON
“BULK SOLID HANDLING FOR CHEMICAL ENGINEERS”
 26TH MAY TO 09TH JUNE 2021
 COURSE COORDINATOR
Ms. INDUJA P. AP/CHEM ENGG

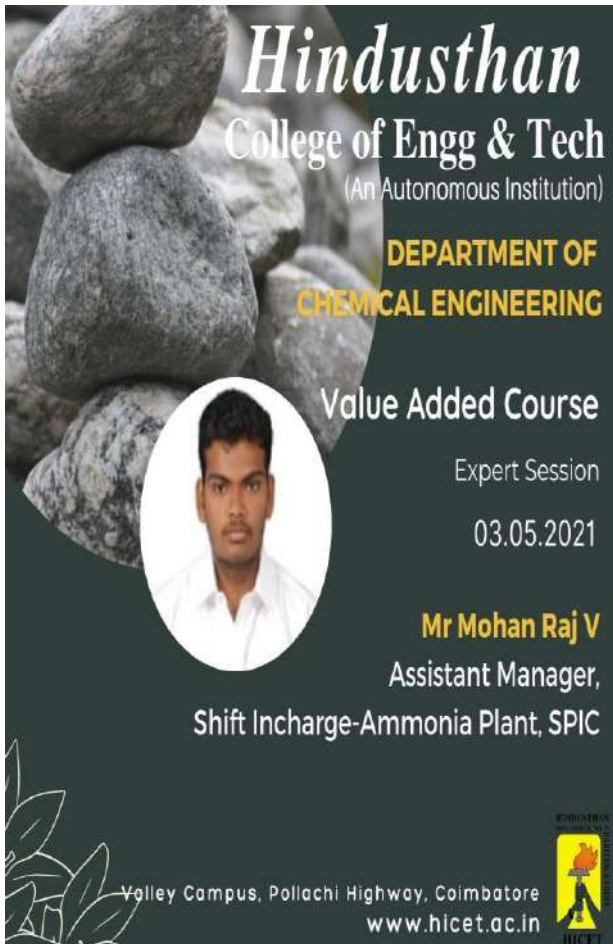
DEPARTMENT OF CHEMICAL ENGINEERING

PROPOSAL FOR VALUE ADDED COURSE
 SUBMITTED TO THE PRINCIPAL THROUGH DEAN ACADEMICS



Hindusthan
 College of Engineering and Technology
 Coimbatore- 641012


25th May 2021



Hindusthan
 College of Engg & Tech
 (An Autonomous Institution)


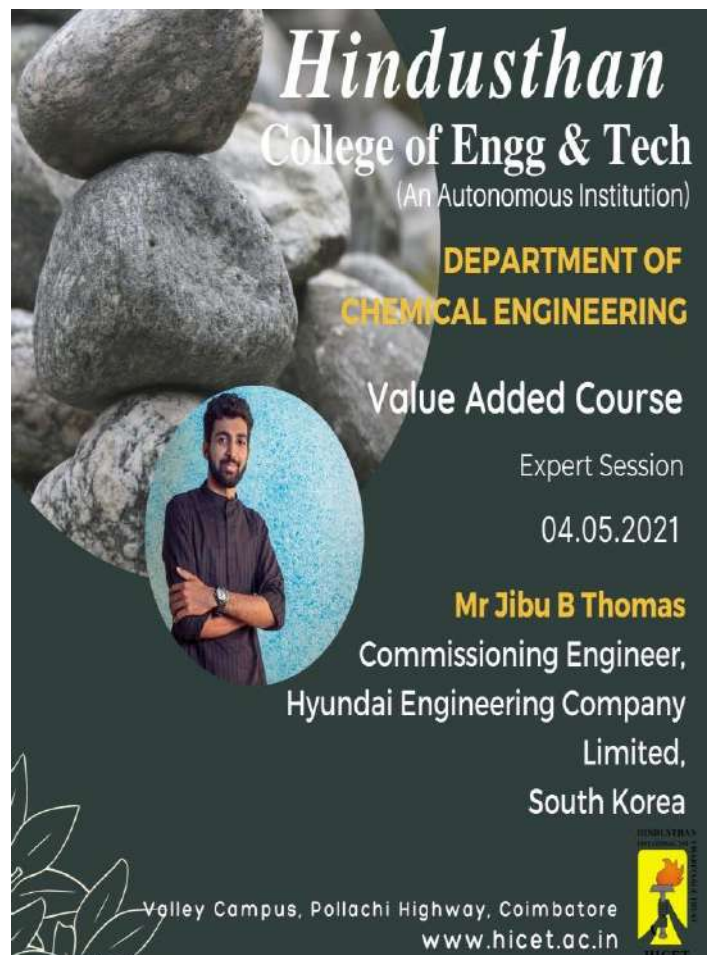
**DEPARTMENT OF
 CHEMICAL ENGINEERING**

Value Added Course
 Expert Session
 03.05.2021



Mr Mohan Raj V
 Assistant Manager,
 Shift Incharge-Ammonia Plant, SPIC


Valley Campus, Pollachi Highway, Coimbatore
www.hicet.ac.in

Hindusthan
 College of Engg & Tech
 (An Autonomous Institution)


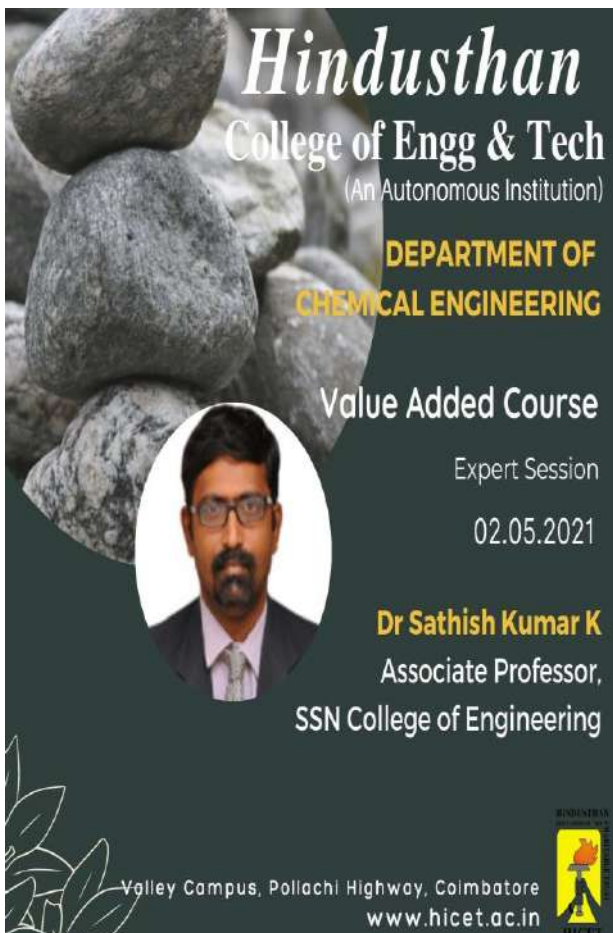
**DEPARTMENT OF
 CHEMICAL ENGINEERING**

Value Added Course
 Expert Session
 04.05.2021



Mr Jibu B Thomas
 Commissioning Engineer,
 Hyundai Engineering Company
 Limited,
 South Korea


Valley Campus, Pollachi Highway, Coimbatore
www.hicet.ac.in

Hindusthan
 College of Engg & Tech
 (An Autonomous Institution)


**DEPARTMENT OF
 CHEMICAL ENGINEERING**

Value Added Course
 Expert Session
 02.05.2021

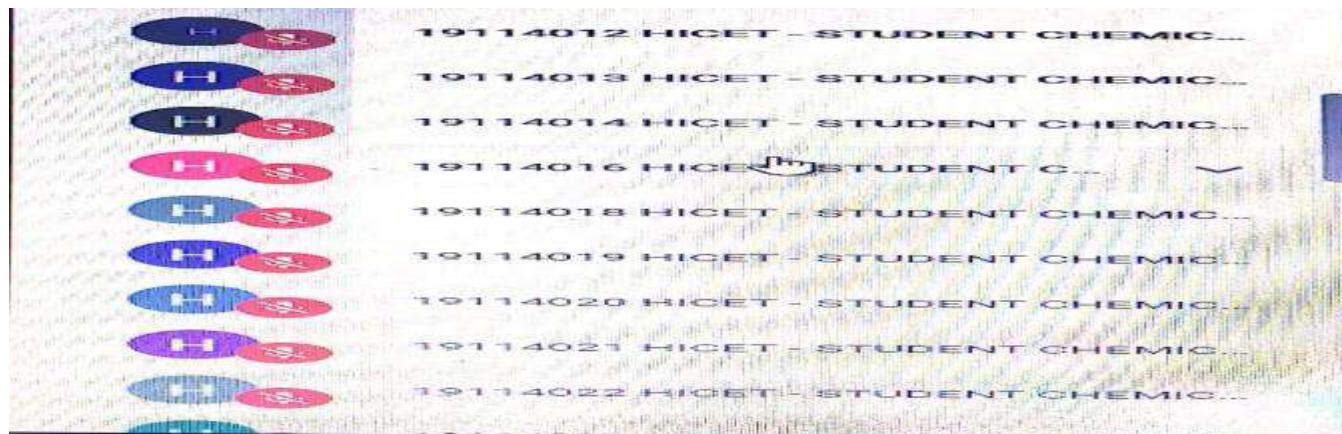


Dr Sathish Kumar K
 Associate Professor,
 SSN College of Engineering

Valley Campus, Pollachi Highway, Coimbatore
www.hicet.ac.in



Photographs of Attendance



Photographs of Event

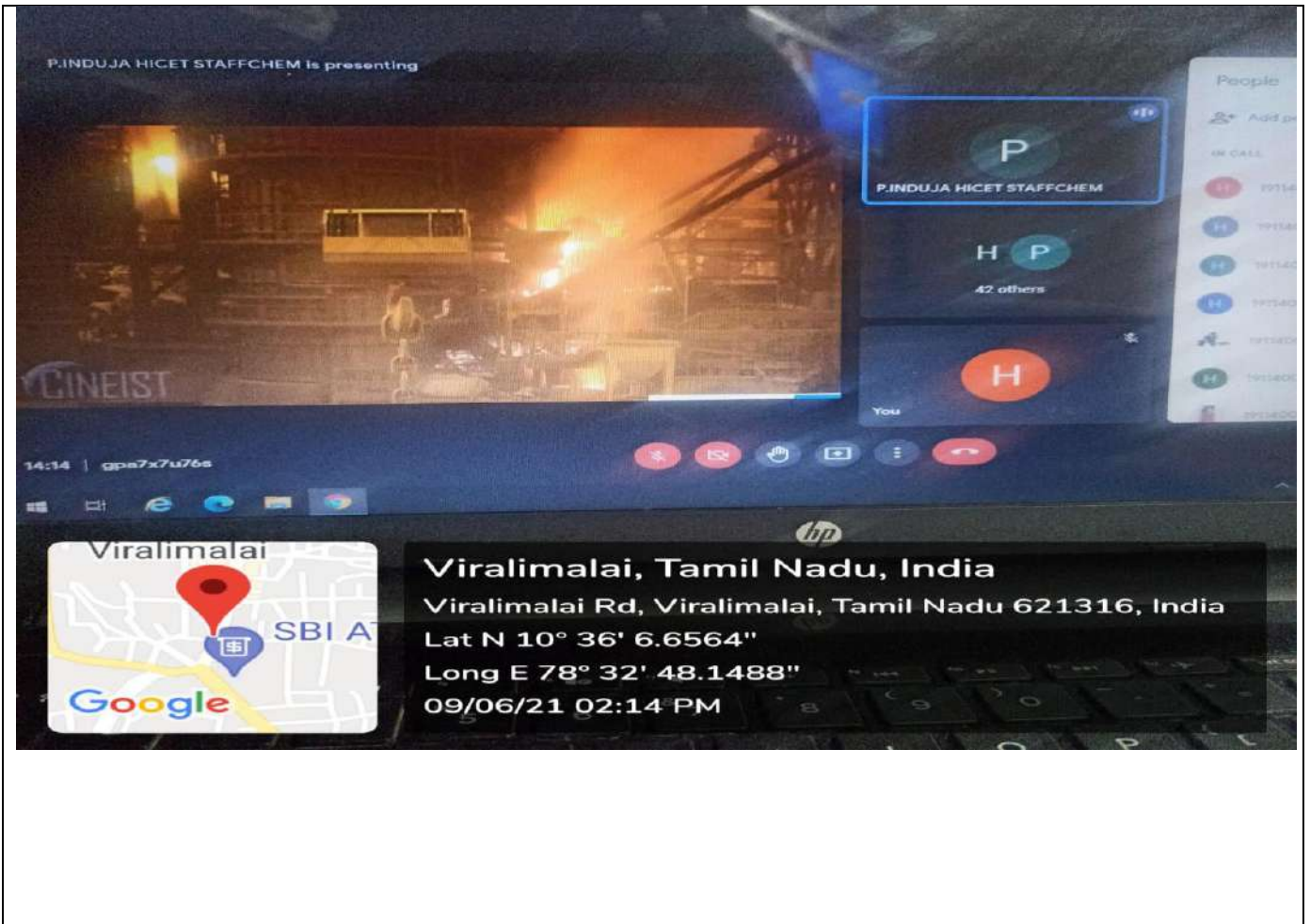
A screenshot of a Zoom meeting slide titled "Application". The slide contains a bulleted list of applications for polymers:

- In Pharmacology - polymer blends, pharmaceutical powders, and composite fillers.
- In Food and beverage processing industries - infant food, flavorings, seasonings, dried food products, breakfast cereals, cake mixes, dietary supplements, instant drink blends etc.
- Cosmetics
- Abrasives
- Pesticides and herbicides
- Plastic powders
- Laundry detergents
- Fertilizers
- Plastic powders
- Fire retardants
- Gypsum

At the bottom left of the slide, there is a Google Maps inset showing a location in Nagercoil, Tamil Nadu, India. The map shows a red location pin on a street labeled "66".

Nagercoil, Tamil Nadu, India
 51/108, Pattariyar Middle St, Eathancadu, Edalakudi, Nagercoil,
 Tamil Nadu 629002, India
 Lat N 8° 9' 59.4792"
 Long E 77° 26' 42.6408"
 07/06/21 10:29 AM

On the right side of the slide, there is a Zoom meeting control panel showing several participants: You, P.INDUJA, Sathish Ku..., and 42 others.



bbw-fts-j-pdn (2021-05-26 at 01:38 GMT-7)

Types of particulate solids

Depending on flow properties, particulate solids are of two classes

- Cohesive
For example, wet clay
- Non-cohesive
For example, dry sand, sugar crystals, grains etc.

PINGUJA HEET STAFFCHEM

Bulk solid handling (2021-06-02 at 23:08 GMT-7)

Dorr Oliver Granulation Pipe Reactor Process

ORGANIC ACID, AMMONIA, WATER, HEAT, AIR, GRANULAR PRODUCT, SCREENING, DRYER, GRANULATION TANK, SLURRY, Dorr Granulator - Drum, Pipe reactor, Filter, Enduser, Dorr Granulator - Drum

Mohan Raj

4:13 / 6:16:43



HINDUSTHAN

College of Engineering and Technology

(An Autonomous Institution)

Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032

Value Added Course

This is to certify that

ABEL T VARGHESE (19114001) of CHEMICAL ENGINEERING

has successfully completed the course on

BULK SOLID HANDLING FOR CHEMICAL ENGINEERS

from 26.05.2021 to 09.06.2021 for the period of 30 hours

during the Even Semester of Academic Year 2020-21

HEAD



DEAN-ACADEMICS

PRINCIPAL

VALUE ADDED COURSE

On

“BULK SOLID HANDLING FOR CHEMICAL ENGINEERS”

26th MAY to 09th JUNE 2021

STUDENTS FEEDBACK

Timestamp	09-06-2021 05:04	09-11-2021 05:04	09-06-2021 05:04	09-06-2021 05:05	09-06-2021 05:05
Register Number	19114042	19114024	19114006	19114021	19114046
Name	Rahul	Krishna nandana p n	Arun kumar.R	Karthick L	Sanjaykumar.S
Mail ID	19114042@hicet.ac.in	19114024@hicet.ac.in	19114006@hicet.ac.in	19114021@hicet.ac.in	19114046@hicet.ac.in
Your opinion about the VAC	Very good	Very good	Very good	Very good	Very good
Presentation quality of the resource persons	Very good	Very good	Good	Good	Very good
Rate your experience about the webinar	Excellent	Excellent	Excellent	Good	Excellent
Would you like to attend similar webinar in the future	Yes	Yes	Yes	May be	Yes

Civil Engineering Department

HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

COIMBATORE 641 032

DEPARTMENT OF CIVIL ENGINEERING

No.: HICET / Civil / Value Added Course / Odd 21-22 / 01

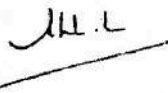
04.06.2021

CIRCULAR

This is to inform the students of Third Year Civil Engineering (2019-2023 Batch) that the Value Added Course on Revit Architecture is scheduled as below:

Duration	Timing	
	FN Session	AN Session
7.06.2021 to 16.06.2021	10.00 a.m. – 12.00 noon	2.00 p.m. – 4.00 p.m.

The course will be handled in the online mode. Students are instructed to join the course using the google meet link: <https://meet.google.com/lookup/dxykisnaw>


HOD / CIVIL

Copy to:

1. The Principal – for kind information
2. The Dean – for kind information
3. The Third Year Civil Engineering Students
4. All the Civil Engineering Faculty Members

VAP/CE/II	IV th SEM
Building Information Modeling Using Autodesk Revit Software.	
Total Contact Hours: 30 Hrs	

Module No.	Topic Covered
1	<p>Introduction to BIM and Autodesk Revit: Introduction to BIM and Autodesk Revit, Overview of the Interface, Starting Projects, Viewing & Commands.</p> <p>Basic Sketching and Modify Tools: Using General Sketching Tools, Editing Elements, Working with Basic Modification Tools, Working with Additional Modification Tools</p> <p>Exercise: Open a REVIT file and view the various commands available. Plot some basic sketches of shapes and modify them using above commands.</p>
2	<p>Starting Structural Projects Linking and Importing CAD Files, Linking in Revit Models, Setting Up Levels, Copying and Monitoring Elements, Coordinating Linked Models</p> <p>Structural Grids and Columns: Adding Structural Grids, Placing Structural Columns, Create and modify wall, door, window.</p> <p>Exercise: Import a CAD File to REVIT and set up the levels. Then add grids and columns.</p>
3	<p>Modeling: Create a roof, stair, ramp, railing and floor and modify it.</p> <p>Exercise: Model a structure with roof, stair, ramp, railing and floor.</p>
4	<p>Working with Views: Setting the View Display, Duplicating Views, Elevations and Sections. Change the view scale, Change detail level of a view, View range, Duplicate views, Create sectional view, 3D view and elevation view</p> <p>Adding Structural Slabs: Modeling Structural Slabs, Creating Shaft Openings</p> <p>Exercise: Model a structure and see the same in various views for checking. Then to the structure add slabs and shaft openings.</p>
5	<p>Foundations: Modeling Walls, Adding Wall Footings, Creating Piers, Adding Isolated Footings</p> <p>Structural Framing: Modeling Structural Framing, Modifying Structural Framing, Adding Trusses</p> <p>Exercise: Add wall and footing to the structure created. And model a frame with truss in it.</p>

6	<p>Managing Documents: Create and modify text, Create and modify dimension, create and modify a sheet, Place plan view on a sheet, Create and modify schedules. Exercise: Insert text into the structure and dimension the structure. Create and modify schedules.</p>
7	<p>The following list of Projects has to be completed on which Certificate will be provided.</p> <p>a) Draw the Plan, Sectional, Front elevation and 3 – D model of a residential building with a Flat roof with rendered view. (with stairs, railing, ramp)</p> <p>b) Draw the Plan, Sectional, Front elevation and 3 – D model of a residential building with a Pitched roof with rendered view. (with railing, ramp, flooring)</p> <p>Draw the Plan, Sectional, Front elevation and 3 – D model of a Multi storey residential building with a Flat roof with rendered view. (with stairs, railing, ramp, flooring)</p>

ALL

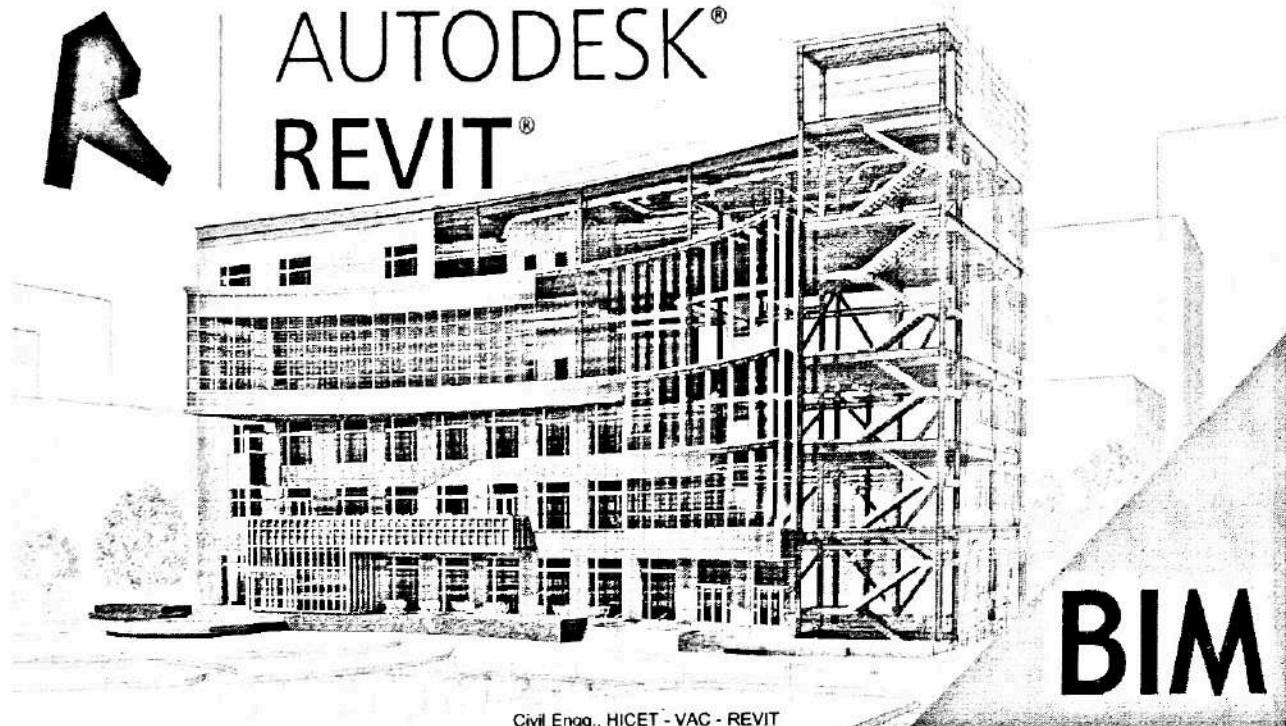


DEPARTMENT OF CIVIL ENGINEERING
VALUE ADDED COURSE – JUNE 2021

BATCH: 2019-2023



AUTODESK®
REVIT®



BIM

Civil Engg., HICET - VAC - REVIT



**Building Information Modeling using
REVIT ARCHITECTURE**

Objectives

- To gain knowledge on basic sketching tools and rendering to 3D Modelling

Objectives

- Students will be able to
- Import models in Revit and add details
- Render the 3D Modeling using Revit

SCHEDULE & INSTRUCTOR DETAILS

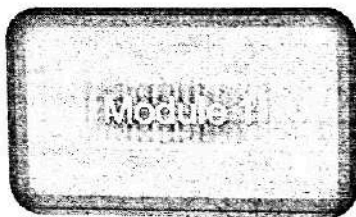
	FN Session	AN Session
7.06.2021 to 16.06.2021	10.00 a.m. – 12.00 noon	2.00 p.m. – 4.00 p.m.
COURSE INSTRUCTOR	AN INSTRUCTOR	

Mr. R. Parthasaarathi	Assistant Professor of Civil Engineering, HICET
I	Assistant Professor of Civil Engineering, HICET
Er. K. Saravanakumar	KS Structural Consultancy, Coimbatore
Ar. Prakash	Senior Architect, Architectural Model Maker, Coimbatore
Mr. C. Balasubramanian	Managing Director, Hepta Homes, Tiruppur
Er. A. Jeevanandham	Managing Director, Real Construction and Infrastructures, Coimbatore

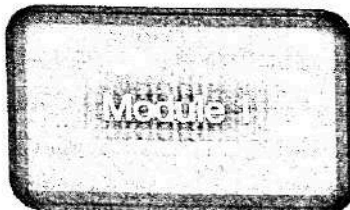
Civil Engg., HICET - VAC - REVIT

3

Building Information Modeling using REVIT ARCHITECTURE



- **Introduction to BIM and Autodesk Revit:** Introduction to BIM and Autodesk Revit, Overview of the Interface, Starting Projects, Viewing & Commands.

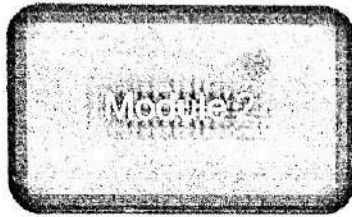


- **Basic Sketching and Modify Tools:** Using General Sketching Tools, Editing Elements, Working with Basic Modification Tools, Working with Additional Modification Tools

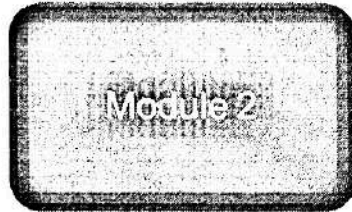


- **Exercise:** Open a REVIT file and view the various commands available. Plot some basic sketches of shapes and modify them using above commands

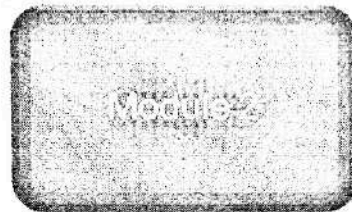
Building Information Modeling using REVIT ARCHITECTURE



- **Starting Structural Projects:** Linking and Importing CAD Files, Linking in Revit Models, Setting Up Levels, Copying and Monitoring Elements, Coordinating Linked Models



- **Structural Grids and Columns:** Adding Structural Grids, Placing Structural Columns, Create and modify wall, door, window

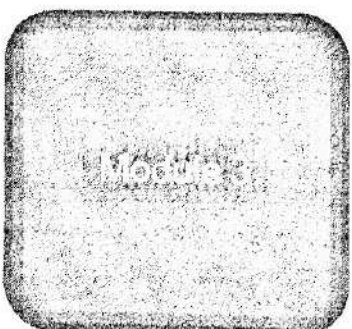


- **Exercise:** Import a CAD File to REVIT and set up the levels. Then add grids and columns

Building Information Modeling using REVIT ARCHITECTURE

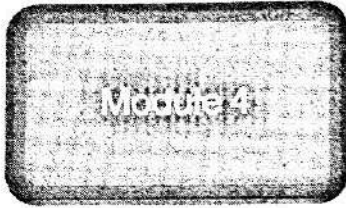


- **Modeling:** Create a roof, stair, ramp, railing and floor and modify it

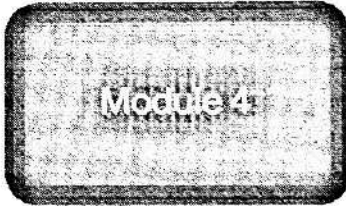


- **Exercise:** Model a structure with roof, stair, ramp, railing and floor

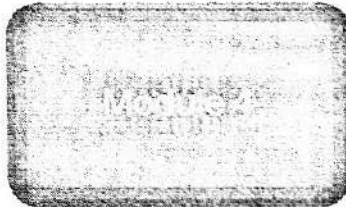
Building Information Modeling using REVIT ARCHITECTURE



- **Working with Views:** Setting the View Display, Duplicating Views, Elevations and Sections. Change the view scale, Change detail level of a view, View range, Duplicate views, Create sectional view, 3D view and elevation view



- **Adding Structural Slabs:** Modeling Structural Slabs, Creating Shaft Openings

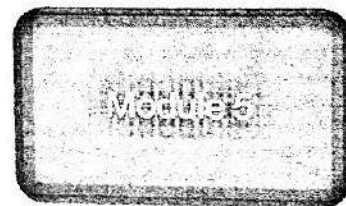


- **Exercise:** Model a structure and see the same in various views for checking. Then to the structure add slabs and shaft openings

Building Information Modeling using REVIT ARCHITECTURE



- **Foundations:** Modeling Walls, Adding Wall Footings, Creating Piers, Adding Isolated Footings

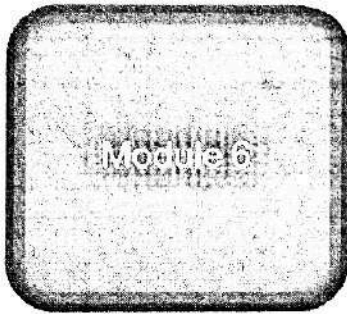


- **Structural Framing:** Modeling Structural Framing, Modifying Structural Framing, Adding Trusses

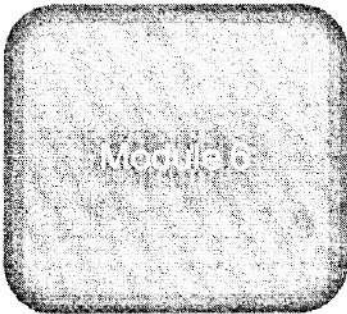


- **Exercise:** Add wall and footing to the structure created. And model a frame with truss in it

Building Information Modeling using REVIT ARCHITECTURE



- **Managing Documents:** Create and modify text, Create and modify dimension, create and modify a sheet, Place plan view on a sheet, Create and modify schedules.

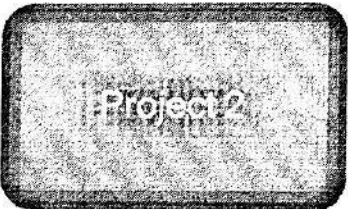


- **Exercise:** Insert text into the structure and dimension the structure. Create and modify schedules

Building Information Modeling using REVIT ARCHITECTURE



- Draw the Plan, Sectional, Front elevation and 3-D model of a residential building with a Flat roof with rendered view (with stairs, railing, ramp)



- Draw the Plan, Sectional, Front elevation and 3-D model of a residential building with a Pitched roof with rendered view (with railing, ramp, flooring)




- Draw the Plan, Sectional, Front elevation and 3-D model of a Multi-storey residential building with a Flat roof with rendered view (with stairs, railing, ramp, flooring)

DEPARTMENT OF CIVIL ENGINEERING

VALUE ADDED COURSE ON REVIT - SCHEDULE

Date	Session	Theory/ Practical	Course Instructor	Affiliation	Topic Covered
07.06.2021	FN 10.00- 11.00	Inauguration	Course Instructors, Faculty Members and HoD/ Civil	-	Inauguration
	FN 11.00-12.00	Theory/ Practical	Mr. R. Sakthivel	Assistant Professor of Civil Engineering, HICET	Inauguration and Revit Installation and Activation of Student License from Autodesk
	AN	Theory	Mr. R. Parthasaarathi	Assistant Professor of Civil Engineering, HICET	Introduction to BIM and Autodesk Revit, Overview of the Interface, Starting Projects, Viewing & Commands.
08.06.2021	FN	Theory	Mr. R. Sakthivel	Assistant Professor of Civil Engineering, HICET	Using General Sketching Tools, Editing Elements, Working with Basic Modification Tools, Working with Additional Modification Tools
	AN	Practical	Mr. R. Parthasaarathi	Assistant Professor of Civil Engineering, HICET	Open a REVIT file and view the various commands available. Plot some basic sketches of shapes and modify them using above commands
09.06.2021	FN	Theory	Mr. R. Sakthivel	Assistant Professor of Civil Engineering, HICET	Linking and Importing CAD Files, linking in Revit Models, Setting Up Levels, Copying and Monitoring Elements, Coordinating Linked Models
	AN	Theory	Mr. R. Parthasaarathi	Assistant Professor of Civil Engineering, HICET	Adding Structural Grids, Placing Structural Columns, Create and modify wall, door, window
10.06.2021	FN	Theory	Er. K. Saravanakumar	KS Structural Consultancy, Coimbatore	Create a roof, stair, ramp, ramp, railing and floor and modify it.
	AN	Practical	Mr. R. Parthasaarathi	Assistant Professor of Civil Engineering, HICET	Import a CAD File to REVIT and set up the levels. Then add grids and columns, model a structure with roof, stair, ramp, railing and floor.
11.06.2021	FN	Theory	Ar. Prakash	Senior Architect, Architectural Model Maker, Coimbatore	Setting the View Display, Duplicating Views, Elevations and Sections. Change the view scale, Change detail level of a view, View range, Duplicate views, create sectional view, 3D view and elevation view
	AN	Theory/ Practical	Mr. R. Sakthivel	Assistant Professor of Civil Engineering, HICET	Modeling Structural Slabs, Creating Shaft Openings Model a structure and see the same in various views for checking. Then to the structure add slabs and shaft openings

12.06.2021	FN	Theory	Mr. C. Balasubramanian	Managing Director, Hepta Homes, Tiruppur	Modeling Walls, Adding Wall Footings, Creating Piers, Adding Isolated Footings
	AN	Theory	Mr. R. Parthasaarathi	Assistant Professor of Civil Engineering, HICET	Modeling Structural Framing, Modifying Structural Framing, Adding Trusses
13.06.2021	FN	Practical	Mr. R. Sakthivel & Mr. R. Parthasaarathi	Assistant Professor of Civil Engineering, HICET	Model a structure and see the same in various views for checking. Then to the structure add slabs and shaft openings.
	AN	Practical	Mr. R. Sakthivel & Mr. R. Parthasaarathi	Assistant Professor of Civil Engineering, HICET	Add wall and footing to the structure created. And model a frame with truss in it.
14.06.2021	FN	Theory	Er. A. Jeevanandham	Managing Director, Real Construction and Infrastructures, Coimbatore	Modeling Walls, Adding Wall Footings, Creating Piers, Adding Isolated Footings
	AN	Theory	Mr. R. Parthasaarathi	Assistant Professor of Civil Engineering, HICET	Modeling Structural Framing, Modifying Structural Framing, Adding Trusses
15.06.2021	FN	Theory	Mr. R. Sakthivel	Assistant Professor of Civil Engineering, HICET	Create and modify text, Create and modify dimension, create and modify a sheet, Place plan view on sheet, Create and modify schedules.
	AN	Practical	Mr. R. Sakthivel & Mr. R. Parthasaarathi	Assistant Professor of Civil Engineering, HICET	Insert text into the structure and dimension the structure. Create and modify schedules.
16.06.2021	FN	Practical	Mr. R. Sakthivel & Mr. R. Parthasaarathi	Assistant Professor of Civil Engineering, HICET	Add wall and footing to the structure created. And model a frame with truss in it.
	AN	Project	Mr. R. Sakthivel & Mr. R. Parthasaarathi	Assistant Professor of Civil Engineering, HICET	<ul style="list-style-type: none"> ➤ Draw the Plan, Sectional, Front elevation and 3 – D model of a residential building with a Flat roof with rendered view. (With stairs, railing, ramp) ➤ Draw the Plan, Sectional, Front elevation and 3 – D model of a residential building with a Pitched roof with rendered view. (With railing, ramp, flooring) ➤ Draw the Plan, Sectional, Front elevation and 3 – D model of Multi storey residential building with a Flat roof with rendered view. (With stairs, railing, ramp, flooring)
17.06.2021	FN	Query	Mr. R. Sakthivel & Mr. R. Parthasaarathi	Assistant Professor of Civil Engineering, HICET	All Topics
	AN	Valedictory	Course Instructors, Faculty Members and HoD/ Civil	-	Valedictory


Faculty Incharge


HOD

**HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY
COIMBATORE - 641032**

**DEPARTMENT OF CIVIL ENGINEERING
VALUE ADDED COURSE- REVIT-ATTENDENCE**

Class: III Year Civil Engineering

Semester: V

Batch: 2019 - 2023

Academic Year: 2021-2022

S. No.	Roll No.	Name of the Student	07.06.2021		08.06.2021		09.06.2021		10.06.2021		11.06.2021		12.06.2021		13.06.2021		14.06.2021		16.06.2021		17.06.2021		Total Number of Sessions	Number of Sessions Attended	Attendance Percentage
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN			
1	19103001	ADARSH S	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	19	95.0%
2	19103002	ADHITYAN V	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	19	95.0%
3	19103003	AKASH.A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
4	19103004	ANBUMANI K	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	20	19	95.0%
5	19103005	ARUN S	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
6	19103006	BHARATH ASWIN B G	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	20	19	95.0%
7	19103007	DEVARAJ B	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
8	19103008	DHARMASEELAN M	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
9	19103009	DHAYANANTHA SELVAN B	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	19	95.0%
10	19103010	DHINAKARAN N	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
11	19103011	DILIP K	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	20	19	95.0%
12	19103012	FAYAZ KAMAL K A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
13	19103013	GNANA RAGHUL S	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
14	19103014	GOKUL KANNAN T	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	20	19	95.0%
15	19103015	HARSHAD K P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	A	P	P	P	P	P	20	18	90.0%
16	19103016	JEEVA C	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
17	19103017	JEEVA G	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
18	19103018	JEGANATH P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
19	19103019	KAMALESHWARAR R	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	19	95.0%
20	19103020	KIRAN MADHAVAN B	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
21	19103021	KISHOR KUMAR R	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
22	19103022	KISHORE B	P	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	20	18	90.0%
23	19103023	LAXMAN DAS S L	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
24	19103024	MADHAVAN G R	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	20	19	95.0%
25	19103025	MAHESH T	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	19	95.0%
26	19103026	MANOJ R	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
27	19103027	MARUDHU VIGNESH V	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
28	19103028	MATHESH R	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	19	95.0%
29	19103029	MOHAMAD HARITH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%

S. No.	Roll No.	Name of the Student	07.06.2021		08.06.2021		09.06.2021		10.06.2021		11.06.2021		12.06.2021		13.06.2021		14.06.2021		16.06.2021		17.06.2021		Total Number of Sessions	Number of Sessions Attended	Attendance Percentage
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN			
30	19103030	MOHD YASEEN	P	P	A	P	A	A	A	A	P	A	A	P	P	A	P	P	P	A	A	P	20	10	50.0%
31	19103031	MUHAMMED SAFVAN K	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
32	19103032	MUHILAN M	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
33	19103033	MUTHIAH R	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	19	95.0%
34	19103034	MYTHREYAN T	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
35	19103035	RAHUL KUMAR	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	20	19	95.0%
36	19103036	RANJITH PRABHAKAR T	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
37	19103037	RUFUS NELSON J	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	20	19	95.0%
38	19103038	SAHAL BASHEER P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	P	20	18	90.0%	
39	19103039	SAHIL ZAHOOR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
40	19103040	SAKTHI SHREE R	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
41	19103041	SANJAY KUMAR A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
42	19103042	SANKEERTH SREENIVASAN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
43	19103043	SANOJ S	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	19	95.0%
44	19103044	SANTHOSH A G	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
45	19103045	SANTHOSH K	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	19	95.0%
46	19103046	SASIVAJINKUMAR S.C	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
47	19103047	SAYYID MUBARIS HASHIM	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
48	19103048	SENTHAMIL SELVAN G	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
49	19103049	SIVASHANKAR D	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	20	18	90.0%
50	19103050	SOORYA PRAKASH K R	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
51	19103051	VIGNESH KUMARAN R	P	P	P	P	A	P	P	P	P	P	P	P	P	A	A	P	P	P	P	20	17	85.0%	
52	19103052	VISHNU V S	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
53	19103801	AMRITHA M	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	19	95.0%
54	19103802	ANOOP ROBIN RF	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	20	19	95.0%
55	19103803	ASHISH K BABU	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	19	95.0%
56	19103804	BHRUGUMALLA MANOJ	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
57	19103805	CHINTA VENKATESWARLU	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
58	19103806	GOPI P	P	A	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	20	17	85.0%
59	19103807	GOTTUPALI RAMYA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
60	19103808	HARISH PREM U	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
61	19103809	MARASU VENKATA ROSHITH BABU	P	P	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	20	18	90.0%
62	19103810	MOHANA PRASATH S	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	20	19	95.0%	
63	19103811	POOJA K	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	19	95.0%
64	19103812	PREETHI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	20	19	95.0%	

S. No.	Roll No.	Name of the Student	07.06.2021		08.06.2021		09.06.2021		10.06.2021		11.06.2021		12.06.2021		13.06.2021		14.06.2021		16.06.2021		17.06.2021		Total Number of Sessions	Number of Sessions Attended	Attendance Percentage
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN			
65	19103813	SANTHOSH T	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	20	100.0%
66	19103814	SELVAMP	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	19	95.0%
67	19103815	SEVUGAMOORTHY R	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	20	19	95.0%
68	19103816	SHEEMEN D	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	20	19	95.0%
69	19103817	JEYA SURYA A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	20	18	90.0%

R. B.
Faculty Incharge

[R. Sarathivel / AP-CE]

M.L.
HoD/ Civil



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An Autonomous Institution

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Coimbatore - 641032.



DEPARTMENT OF CIVIL ENGINEERING

This is to certify that Mr. / Ms. ADARSH S of III Year B.E. Civil Engineering has successfully completed the Value Added Course “**Building Information Modeling Using Autodesk-Revit**” from **07.06.2021** to **16.06.2021** at Hindusthan College of Engineering and Technology, Coimbatore.

Mr. R. Sakthivel

Course Co-ordinators

Mr. R. Parthasaarathi

Dr. K. Akil
HOD, Civil Engineering

Certificate ID: WJDP20-CE000019

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DEPARTMENT OF CIVIL ENGINEERING

This is to certify that Mr. / Ms. SAKTHI SHREE R of III Year B.E. Civil Engineering has successfully completed the Value Added Course “**Building Information Modeling Using Autodesk-Revit**” from **07.06.2021** to **16.06.2021** at Hindusthan College of Engineering and Technology, Coimbatore.

Mr. R. Sakthivel

Mr. R. Parthasaarathi

Course Co-ordinators

Dr. K. Akil

HOD, Civil Engineering

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Certificate ID: WJDP20-CE000014



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DEPARTMENT OF CIVIL ENGINEERING

This is to certify that Mr. / Ms. Amritha. M of III Year B.E. Civil Engineering has successfully completed the Value Added Course “Building Information Modeling Using Autodesk-Revit” from 07.06.2021 to 16.06.2021 at Hindusthan College of Engineering and Technology, Coimbatore.

Mr. R. Sakthivel

Course Co-ordinators

Mr. R. Parthasaarathi

Dr. K. Akil
HOD, Civil Engineering

Certificate ID: WJDP20-CE000005

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VALUE ADDED COURSE -REVIT - JUNE 2021

Organized by Department of Civil Engineering, Hindusthan College of Engineering and Technology, Coimbatore

Software : Autodesk - Revit

Batch : 2019 - 2023

Date : 07.06.2021 to 17.06.2021

Time : @ IST 10.00 AM to 12.00 Noon and 2.00PM to 04.00PM

Course Instructors: Mr. R. Parthasaarathi - +91 - 99444-94629

Mr. R.Sakthivel - +91 - 94870-13443

Er. K. Saravanakumar

Ar. Prakash

Mr. C. Balasubramanian

Er. A. Jeevanandham

Mentor: Dr. R. Sakthivel - +91 - 99443-32228

The respondent's email (19103005@hicet.ac.in) was recorded on submission of this form.

FULL NAME (IN CAPS) *

ARUN.S

Register Number: *

19103005

Email ID: *

19103005@hicet.ac.in

Contact No. *

9361631876

Quiz

Answer All Questions

What three components make up the ribbon? *

- Compartments, tabs, items
- Labels, panel, compartments
- Tabs, panels, tools
- Tabs, items, commands

When does a contextual menu appear? *

- Only when a Revit tool is selected.
- When an element is selected or a Revit tool is loaded.
- Contextual menus are always visible.
- Only when an element is selected.

What tool enables the toggling of visibility of lineweights within the graphics area? *

- Thin lines
- Thick lines
- Show lineweights
- Hide lineweights

What tool is used to create an in-place family? *

1 point

- Create In-Place
- Model In-Place
- Model New Family
- Model In-Place Family

Where are project units configured in Revit? *

1 point

- The Manage tab > Settings panel
- The Modify tab > Modify panel
- The Options dialog.
- The Properties palette.

How can temporary dimensions be printed? *

1 point

- Convert to permanent dimensions.
- Turn on enable temporary dimension printing.
- They will print by default.
- They cannot be made to print.

Where are new sheets created in Revit? *

1 point

- The View Tab > Create panel.
- The View Tab > Sheet Composition panel.
- The Manage Tab > Manage Project panel.
- Duplicate an existing Sheet View in the browser.

A title block is saved as what type of file? *

1 point

- A Project file (.RVT)
- A Project Template file (.RTE)
- A Component Family file (.RFA)
- A Family Template file (.RFT)

Where can the Project Information dialog be accessed? *

1 point

- View tab > Create panel
- Manage tab > Settings panel
- View tab > Sheet Composition panel
- Properties palette

As an alternative to the Properties palette, where else can the Height and Location Line be configured? *

1 point

- Status bar
- Quick Access Toolbar
- View Control bar
- Options bar

What tool is used to ensure a new wall that is about to be drawn is the same family and type as an existing, pre-drawn, wall? *

1 point

- Create Similar
- Add Selected
- Draw Similar
- Copy Similar

What keyboard shortcut can be used to zoom all tiled views to fit simultaneously? *

1 point

- ZT
- AZ
- ZF
- ZA

After using the Split Element tool to split a wall, how can the split line be selected later to reposition it? *

1 point

- Hover over it, press the Spacebar, and then click on it.
- Hover over it, press the Tab key, and then click on it.
- Click on it.
- Place a selection window around it.

When using the Align tool, what needs to be enabled to align multiple walls with a single reference? *

1 point

- Align Multiple checkbox in the Status bar
- Align Multiple checkbox in the Properties Palette
- Multi Align checkbox in the Settings panel
- Multiple Alignment checkbox in the Options bar

How is a Door family described? *

1 point

- Dependent
- Independent
- Standalone
- Hosted

When a Window is selected within the model, what are the parameters that automatically appear in the Properties palette known as? *

1 point

- Common parameters
- Instance parameters
- Object parameters
- Type parameters

What dimension tool provides the capability to assign an EQ constraint? *

1 point

- EQ Dimension
- Linear Dimension
- Distribute Evenly Dimension
- Aligned Dimension

What tool can be used to attach walls to roofs? *

1 point

- Join/Unjoin Wall
- Attach Top/Base
- Roof/Wall Attach
- Connect Wall

What are the two methods available to copy Doors and Windows elsewhere within the building? *

1 point

- Duplicate and Create Same
- Copy and Create Same
- Replicate and Add Selected
- Create Similar and Copy

When constructing a roof footprint, what drawing tool ensures a parametric relationship between the roof and the walls? *

1 point

- Wall Constraint
- Enable Wall/Roof Constraint
- Pick Walls
- Pick Lines

Feedback

Thank you for participating. We hope you had as much fun attending as we did organizing it.

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How helpful was the Value Added Course? *

- | | | | | | | |
|-----------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------------------|-------------------|
| | 1 | 2 | 3 | 4 | 5 | |
| Desultory | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | Extremely Helpful |

Is the content and delivery of the Course met your expectations? *

Strongly Disagree 1 2 3 4 5 Strongly Agree

Is the duration of the Course was sufficient for the topics covered? *

1 2 3 4 5

Query clarification by the Instructor *

Poor 1 2 3 4 5 Excellent

Did you have any technical difficulties participating in the webinar? (select all that apply) *

- Webinar platform access
- Audio quality
- Video quality
- No difficulty

Suggestions *

Nothing

This form was created inside Hindusthan College of Engineering and Technology.

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The respondent's email (19103037@hicet.ac.in) was recorded on submission of this form.

FULL NAME (IN CAPS) *

RUFUS NELSON

Register Number: *

19103037

Email ID: *

19103037@hicet.ac.in

Contact No. *

8667399060

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1 2 3 4 5

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Strongly Disagree Strongly Agree

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Query clarification by the Instructor *

1 2 3 4 5

Poor Excellent

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- Video quality
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Suggestions *

Nil

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Er. A. Jeevanandham

Mentor: Dr. R. Sakthivel - +91 - 99443-32228

The respondent's email (19103031@hict.ac.in) was recorded on submission of this form.

FULL NAME (IN CAPS) *

MUHAMMED SAFVAN K

Register Number: *

19103031

Email ID: *

19103031@hict.ac.in

Contact No. *

9656615103

Answer All Questions

What three components make up the ribbon? *

1 point

- Compartments, tabs, items
- Labels, panel, compartments
- Tabs, panels, tools
- Tabs, items, commands

When does a contextual menu appear? *

1 point

- Only when a Revit tool is selected.
- When an element is selected or a Revit tool is loaded.
- Contextual menus are always visible.
- Only when an element is selected.

What tool enables the toggling of visibility of lineweights within the graphics area? *

1 point

- Thin lines
- Thick lines
- Show lineweights
- Hide lineweights

What tool is used to create an in-place family? *

1 point

- Create In-Place
- Model In-Place
- Model New Family
- Model In-Place Family

Where are project units configured in Revit? *

1 point

- The Manage tab > Settings panel
- The Modify tab > Modify panel
- The Options dialog.
- The Properties palette.

How can temporary dimensions be printed?

1 point

- Convert to permanent dimensions.
- Turn on enable temporary dimension printing.
- They will print by default.
- They cannot be made to print.

Where are new sheets created in Revit?

1 point

- The View Tab > Create panel.
- The View Tab > Sheet Composition panel.
- The Manage Tab > Manage Project panel.
- Duplicate an existing Sheet View in the browser.

A title block is saved as what type of file? *

1 point

- A Project file. (.RVT)
- A Project Template file. (.RTE)
- A Component Family file. (.RFA)
- A Family Template file. (.RFT)

Where can the Project Information dialog be accessed? *

1 point

- View tab > Create panel
- Manage tab > Settings panel
- View tab > Sheet Composition panel
- Properties palette

As an alternative to the Properties palette, where else can the Height and Location Line be configured? *

1 point

- Status bar
- Quick Access Toolbar
- View Control bar
- Options bar

What tool is used to ensure a new wall that is about to be drawn is the same family and type as an existing, pre-drawn, wall? *

1 point

- Create Similar
- Add Selected
- Draw Similar
- Copy Similar

What keyboard shortcut can be used to zoom all tiled views to fit simultaneously? *

1 point

- ZT
- AZ
- ZF
- ZA

After using the Split Element tool to split a wall, how can the split line be selected later to reposition it? *

1 point

- Hover over it, press the Spacebar, and then click on it
- Hover over it, press the Tab key, and then click on it
- Click on it
- Place a selection window around it

When using the Align tool, what needs to be enabled to align multiple walls with a single reference? *

1 point

- Align Multiple checkbox in the Status bar
- Align Multiple checkbox in the Properties Palette
- Multi Align checkbox in the Settings panel
- Multiple Alignment checkbox in the Options bar

How is a Door family described? *

1 point

- Dependent
- Independent
- Standalone
- Hosted

When a Window is selected within the model, what are the parameters that automatically appear in the Properties palette known as? *

1 point

- Common parameters
- Instance parameters
- Object parameters
- Type parameters

What dimension tool provides the capability to assign an EQ constraint? *

1 point

- EQ Dimension
- Linear Dimension
- Distribute Evenly Dimension
- Aligned Dimension

What tool can be used to attach walls to roofs? *

1 point

- Join/Unjoin Wall
- Attach Top/Base
- Roof/Wall Attach
- Connect Wall

What are the two methods available to copy Doors and Windows elsewhere within the building? *

1 point

- Duplicate and Create Same
- Copy and Create Same
- Replicate and Add Selected
- Create Similar and Copy

When constructing a roof footprint, what drawing tool ensures a parametric relationship between the roof and the walls? *

1 point

- Wall Constraint
- Enable Wall/Roof Constraint
- Pick Walls
- Pick Lines

Feed Back

Thank you for participating. We hope you had as much fun attending as we did organizing it.

We want to hear your feedback so we can keep improving our logistics and content. Please fill this quick survey and let us know your thoughts (your answers will be anonymous).

How helpful was the Value Added Course? *

- 1 2 3 4 5
- Desultory Extremely Helpful

Is the content and delivery of the Course met your expectations? *

1 2 3 4 5

Strongly Disagree Strongly Agree

Is the duration of the Course was sufficient for the topics covered? *

1 2 3 4 5

Query clarification by the instructor *

1 2 3 4 5

Poor Excellent

Did you have any technical difficulties participating in the webinar? (select all that apply) *

- Webinar platform access
- Audio quality
- Video quality
- No difficulty

Suggestions *

nothing

Computer Science Engineering



HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

TECHNICAL VALLEY CAMPUS

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VALUE ADDED COURSE

2020-2021



HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

COIMBATORE – 641 032.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CIRCULAR

Date: 27.05.2021

This is to inform that the value added course on Computer Hardware and Networking has been planned to conduct from 31.05.2021 to 04.06.2021 through online for second year students. The regular classes will be cancelled and the enrolled students are hereby instructed to attend and complete the course.

The meet link will be shared to the enrolled students mail-id.

HOD/CSE

CONTENT TO BE DELIVERED

- Computer Hardware Components and Assembly
- Installation of OS and other Softwares
- Installation of Windows server

COURSE OUTCOMES

- Identify and assemble Desktop Computer with all its hardware components
- Install different Operating System and all other application software
- Install Printer, Scanner and troubleshoot their faults
- Install and configure Windows Server

WEBINARJAM LINK

[CLICK HERE](#)



Hindusthan College of Engineering and Technology

Coimbatore - 641032 , www.hicet.ac.in

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

VALUE ADDED COURSE

Computer Hardware and Networking

DURATION

31.05.2021 TO 05.06.2021

TIME

10:00 AM TO 12:30 PM
&
2:00 PM TO 4:30 PM

RESOURCE PERSON

Mr.M.Dhinesh
Senior Testing Engineer/
Technical Business Analyst
Nous Infosystems

HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY
OTHAKKALMANDAPAM POST, POLLACHI MAIN ROAD, COIMBATORE-641032
VALUE ADDED COURSE

CLASS & SEC:II CSE

SUBJECT **COMPUTER HARDWARE AND NETWORKING**

S.No.	Register Number	Name of the Student
1	19104002	Abinaya Alagarsami
2	19104003	Abinesh R
3	19104005	Affran S.M.
4	19104006	Ajay Prasadh
5	19104007	Ajay kumar
6	19104008	Ajithkumar A
7	19104009	Ajmal khan R
8	19104010	Akash C
9	19104011	Akash Kumar
10	19104012	Akash Kumar
11	19104016	Allen Lubin
12	19104017	Aneesh Abdul Rahman
13	19104018	Angel L
14	19104023	Arjun D
15	19104025	Arunbalaji S
16	19104026	Arun Prakash
17	19104028	Ashish Suresh
18	19104030	Balapriya M
19	19104031	Balayogeswaran S
20	19104033	Barath S
21	19104034	Barath Raj
22	19104035	Bharathi Selvan
23	19104036	Bhuvanesh S
24	19104042	Danush Hari
25	19104046	Dhayabaran
26	19104048	Dhifani Steniksha D
27	19104049	Dhinesh kumar G
28	19104050	Dhivagar Mk
29	19104054	Ganeshan S
30	19104056	Gobi R
31	19104057	Gokul k Gokul k
32	19104059	Gokul Raj
33	19104063	Gowtham P
34	19104067	HARIKRISHNA S
35	19104072	JICKSON SAM PAUL J
36	19104076	KARAN S
37	19104081	KATHRESH M
38	19104082	KAVINESH V U
39	19104084	KAVIYARASU S
40	19104088	KOTA SRAVAN KUMAR
41	19104093	MANIKANDAN S
42	19104096	MATHANKUMAR B
43	19104098	MENAGA U
44	19104100	MOHAMED ABUSALIF S M
45	19104103	MOHANRAJAA T
46	19104109	NAMACHIVAYAM S
47	19104111	NANDHAKUMAR N
48	19104125	PAVITHRA M
49	19104126	PAVITHRAA M R
50	19104128	PRAGADESHWAR V
51	19104129	PRAISON SOLOMON V
52	19104130	PRASAD K
53	19104131	PRAVINKANTH S
54	19104132	PUGAZHENDHI N
55	19104133	RAAVI NATHAN KUMAR
56	19104134	RAJA M
57	19104136	RIDDHIMA JANDLA

58	19104137	RISHIKESH GOVIND M R
59	19104138	RITHWIK VINOD
60	19104140	SADHANA M
61	19104144	SHIYAM K
62	19104145	SHRIRAM S
63	19104146	SIMON LEO B
64	19104147	SIRISHA G
65	19104148	SIVABHARATH S P
66	19104149	SIVASURIYAM M
67	19104150	SMIWIN GEMS
68	19104151	SNEHA BHARATHI V
69	19104152	SNEKA M
70	19104154	SONU UNNIKRIISHNAN
71	19104155	SREEDEV S NAIR
72	19104156	SRINIVASPERUMAL R
73	19104157	SRIRAJA B
74	19104158	SRIVARSHAN M
75	19104160	SURESH RAJAN M
76	19404161	SURIYA LAKSHMI A
77	19104162	SURYAPRAKASH S
78	19104165	TAMIL SELVAN S
79	19104166	THARUN R
80	19104167	THAVAPRAKASH S
81	19104168	THEJUS S
82	19104169	VENKADESH R
83	19104170	VIGNESH K
84	19104171	VIJAY S
85	19104172	VINUSURIYA K
86	19104173	VISAKAN V P
87	19104174	VISHNU NARAYANAN S
88	19104175	VISHNUPRASAD M
89	19104176	VISHWA S
90	19104178	YOGESHWARAN M
91	19104179	PRAVEEN K
92	19104180	SRI ARAVINDAN V
93	19104802	HARI VIGNESH M
94	19104803	YOGESHWARAN S



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SCHEDULE FOR VALUE ADDED COURSE

DEPARTMENT OF CSE

COMPUTER HARDWARE AND NETWORKING

Date	Session	Resource Person	Meet Link
31.05.2021	FN- 10.00 am-1.00 pm AN- 2.00 pm -5.00 pm	Mr.M.Dhinesh Senior Testing Engineer/ Technical Business Analyst Nous Infosystems Suruthi Chermadurai Senior Administrator Network Security Wipro	https://event.webinarjam.com/channel/ComputerScience
01.06.2021	FN-10.00 am-1.00 pm AN- 2.00 pm -5.00 pm		
02.06.2021	FN- 10.00 am-1.00 pm AN- 2.00 pm -5.00 pm		
03.06.2021	FN- 10.00 am-1.00 pm AN- 2.00 pm -5.00 pm		
04.06.2021	FN- 10.00 am-1.00 pm AN- 2.00 pm -5.00 pm		
05.06.2021	Feedback and Assessment		

S.S.H.

HOD/CSE

93	19104802	HARI VIGNESH M	P	P	P	P	P	P	P	P	P	P	25
94	19104803	YOGESHWARAN S	P	P	P	P	P	P	P	P	P	P	23

6/17



Day1 Hardware Configuration - PowerPoint

MUGUNDRAN A

Design Transitions Animations Slide Show Review View Help Tell me what you want to do

Layout - New Slide - Section - Slides

Font Paragraph Drawing Editing

ALUs

- A processor has a special component called the arithmetic logic unit (ALU), which does all the calculations and comparison logic that the computer needs.
- Figure shows the basic concept of how the ALU connects to the registers, control unit, and internal bus.
- The control unit coordinates activities inside the processor.
- The I/O unit manages data entering and leaving the processor.
- The registers in the CPU make up a high-speed storage area for 1s and 0s before the bits are processed.
- To make sense of all of this, take a look at a letter typed on a computer that starts out DEAR MOM.
- To the computer, each letter of the alphabet is a different combination of eight 1s and 0s. For example, the letter D is 01000100, and the letter E is 01000101.
- Figure demonstrates that the size of the bus greatly increases performance on a computer similar to the way that increasing the number of lanes of a highway decreases congestion.

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Attendees

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97 live out of 272 registered

Dr.S.LOKESH S

19104004

SRI NAVEENKUMAR

Mohamed Jawahir

Abinaya A

19104147 SIRISHA

RAJKUMAR G

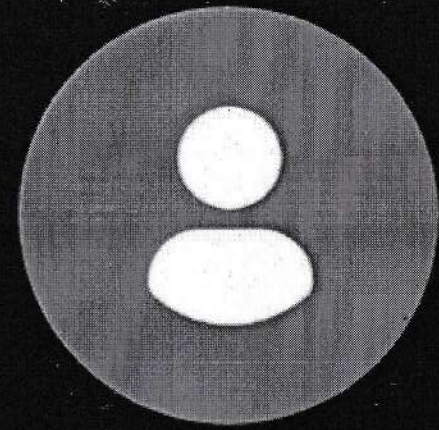
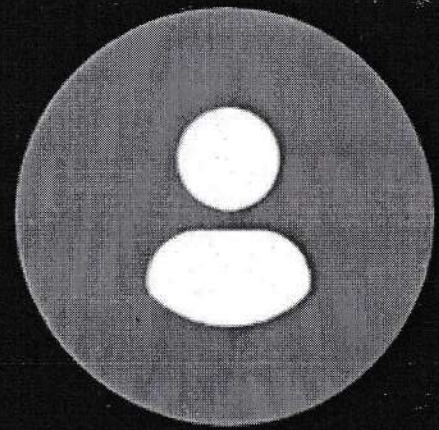
1 2

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On Air 48 00:08



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Attendees

Dr.S.LOKESH S

Naga Mahesh Akkineni

Nathan raavi

Nathan raavi

Nathan raavi

Nathan raavi

Chethan M

1 2

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Task Manager

File Options View

Processes Performance App history Startup Users Details Services

CPU
23% 1.42 GHz
Intel(R) Core(TM) i5-8265U CPU @ 1.60GHz

Memory
3.4/7.9 GB (68%)

Disk 0 (D: E: F:)
HDD 0%

Disk 1 (C:)
SSD 0%

Ethernet
Ethernet 2
S: 0 R: 0 Kbps

Wi-Fi
Wi-Fi
S: 920 R: 16.0 Kbps

GPU 0
Intel(R) UHD Graphi...
1%

Utilization: 23% Speed: 1.42 GHz Base speed: 1.80 GHz Sockets: 1 Cores: 4 Logical processors: 8 Virtualization: Enabled L1 cache: 256 KB L2 cache: 1.0 MB L3 cache: 6.0 MB

Processes: 249 Threads: 3197 Handles: 119083

Up time: 7:01:10:30

Fewer details Open Resource Monitor

Settings Set sticky message...

Attendees

- Sriaravindan v in task manager
- Danush hari task manager
- Jickson Sam Paul J Task Manager
- 19104145 Shriram S Task manager
- N Nandha Kumar Thermal paste is applied on the to reduce heating

Chat Polls Offers Videos Files Slides

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COMPUTER HARDWARE & NETWORKING

1. COMPUTER HARDWARE

Introduction to basic electronics, subassembly of PC

Subassembly of Motherboard, types of memory, familiarization with I/O cards, ports, connectors & cable and their identification.

Build up of PC, Booting process, setting up of BIOS, CMOS errors, disk management

Installation of Operating System, Dual booting systems, Hardware Device Drivers & Application Software, System Maintenance Tools, Important commands, troubleshooting of PC.

Upgrading of PC, Working of SMPS, troubleshooting related to it.

2. NETWORKING

1. Communication over the network
2. Application layer functionality and protocols
3. OSI Transport Layer
4. OSI Network Layer
5. Addressing the Network – IPv4
6. Data Link Layer
7. OSI Physical Layer
8. Ethernet
9. Planning and Cabling Networks
10. Configuring and Testing Your Network
11. Introduction to Routing and Packet Forwarding
12. Static Routing
13. Introduction to Dynamic Routing Protocols
14. Distance Vector Routing Protocols
15. RIP Version 1
16. VLSM and CIDR
17. RIPv2
18. The Routing Table : A Closer Look
19. EIGRP
20. Link-State Routing Protocols
21. OSPF
22. LAN Design
23. Basic Switch Concepts and Configuration
24. VLANs
25. VLAN Trunking Protocol
26. Spanning Tree Protocol
27. Inter-VLAN Routing

28. Introduction to WAN
29. Basic Wireless Concepts and Configuration
30. Point to Point Protocol
31. Frame Relay
32. Network Security
33. ACLs
34. Teleworker Services
35. IP Addressing Services
36. Network Troubleshooting

3.Windows 2008 Administration

Windows 2008 Administration - Introduction

- Microsoft Windows Operating System Family
- Windows 2008 New Features
- Windows 2008 User Interface
- Installation of Windows 2008 Server & its services

Domain name Server (DNS)

- Installing DNS
- Configuring DNS
- Maintaining and troubleshooting DNS
- Configuring Advanced DNS Server parameters
- Configuring DHCP to Support DNS

DHCP

- Networking with TCP/IP
- TCP/IP into the windows Model
- IP Addressing
- Understanding DHCP
- DHCP Communication
- Name Registration and Resolution

Active Directory Services

- Installing Active Directory
- The Active Directory Installing Process
- Examining the Default Structure of Active Directory
- Performing Post Active Directory Installation Task
- Troubleshooting the Installing of Active Directory
- Removing Active Directory

User management

- Understanding User Accounts and Groups
- Assigning Rights on User & Group
- Authentication, Authorization, and Auditing
- Troubleshooting Domain User Accounts and Groups
- Managing user profiles
- Setting up disk Quotas
- Group Policies management

Microsoft Internet Information Server

- Introduction To IIS
- HTTP vs.HTML
- Directory structures
- Authentication
- Administration to IIS

Understanding Windows Registry

- Importing & Exporting Registry
- Changing User & Computer Configuration
- Changing Device Options & Settings



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Value Added Course

This is to certify that

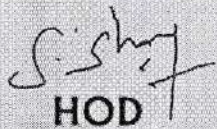
Aditya S Nair of II Year CSE

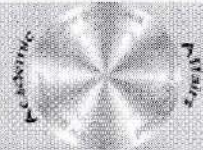
has successfully completed the course


Computer Hardware and Networking

from 31/05/2021 to 05/06/2021

during the ODD Semester of the Academic Year 2020-2021


HOD




DEAN-ACADEMICS


PRINCIPAL

FEEDBACK FOR VAC ON COMPUTER HARDWARE AND NETWORKING

Timestamp	REG NO:	NAME:	DEPARTMENT:	How much did you learn from this course?	Overall, how would you describe the quality of the instruction in this course?	How organized was this course?	How well did you achieve learning goal in this course?	The technology used was appropriate for this course?	The class size was appropriate
2021/06/05 9:13:11 am GMT+5:30	19104082	Kavinesh V U	CSE - B	A great deal	Excellent	Extremely organize	Extremely well	Agree	Neutral
2021/06/05 9:13:14 am GMT+5:30	19104145	Shriram S	CSE	A great deal	Excellent	Extremely organize	Extremely well	Strongly agree	Strongly agree
2021/06/05 9:13:29 am GMT+5:30	19104042	Danush hari	Cse	A lot	Excellent	Very organized	Very Well	Agree	Neutral
2021/06/05 9:13:36 am GMT+5:30	19104111	N Nandha Kumar	3rd CSE B	A lot	Excellent	Extremely organize	Extremely well	Agree	Strongly agree
2021/06/05 9:14:03 am GMT+5:30	19104147	SIRISHA G	CSE - C	A lot	Excellent	Extremely organize	Extremely well	Strongly agree	Strongly agree
2021/06/05 9:14:05 am GMT+5:30	19110051	Mahalakshmi C	B.Tech IT-A	A lot	Excellent	Very organized	Very Well	Agree	Agree
2021/06/05 9:14:05 am GMT+5:30	19104035	Bharathi selvan	CSE	A lot	Very good	Very organized	Very Well	Neutral	Agree
2021/06/05 9:14:07 am GMT+5:30	19104076	Karan.s	Cse-B	A great deal	Very good	Very organized	Extremely well	Neutral	Neutral
2021/06/05 9:14:07 am GMT+5:30	19104161	Suriya lakshmi.A	CSE	A great deal	Excellent	Very organized	Very Well	Agree	Agree
2021/06/05 9:14:10 am GMT+5:30	19104803	Yogeshwaran.S	BE cse	A moderate amount	Very good	Very organized	Extremely well	Agree	Agree
2021/06/05 9:14:37 am GMT+5:30	19104130	Prasad	CSE-C-II	A moderate amount	Excellent	Extremely organize	Very Well	Strongly agree	Strongly agree
2021/06/05 9:14:48 am GMT+5:30	19104180	V.SRIARAVINDAN	CSE	A moderate amount	Excellent	Very organized	Very Well	Agree	Agree
2021/06/05 9:14:52 am GMT+5:30	19110015	Chandru R	IT A	A lot	Excellent	Extremely organize	Extremely well	Neutral	Neutral
2021/06/05 9:14:56 am GMT+5:30	19104036	S Bhuvanesh	CSE A	A lot	Excellent	Extremely organize	Extremely well	Neutral	Neutral
2021/06/05 9:15:02 am GMT+5:30	19104150	Smiwin Gems	Computer Scienc	A great deal	Excellent	Extremely organize	Extremely well	Agree	Agree
2021/06/05 9:15:12 am GMT+5:30	19104151	sneha bharathi	CSE C	A lot	Excellent	Extremely organize	Very Well	Strongly agree	Strongly agree
2021/06/05 9:15:13 am GMT+5:30	19104006	Ajay Prasadh	CSE	A lot	Excellent	Very organized	Extremely well	Strongly disagree	Disagree
2021/06/05 9:15:44 am GMT+5:30	19104028	ASHISH SURESH	CSEA	A lot	Very good	Extremely organize	Very Well	Neutral	Neutral
2021/06/05 9:15:47 am GMT+5:30	19104146	B.Simon Leo	CSE	A great deal	Excellent	Extremely organize	Extremely well	Disagree	Strongly disagree
2021/06/05 9:16:00 am GMT+5:30	19104098	MENAGA U	BE.Cse B	A lot	Very good	Very organized	Very Well	Agree	Agree
2021/06/05 9:16:00 am GMT+5:30	19104160	M.Suresh rajan	CSE	A lot	Excellent	Very organized	Extremely well	Agree	Agree
2021/06/05 9:16:06 am GMT+5:30	19104157	Sriraja .B	Computer Scienc	A lot	Excellent	Extremely organize	Extremely well	Agree	Strongly agree
2021/06/05 9:16:32 am GMT+5:30	19104025	ARUNBALAJI S	CSE	A lot	Very good	Very organized	Very Well	Agree	Neutral
2021/06/05 9:16:39 am GMT+5:30	19104023	Arjun Krishna .D	CSE A	A great deal	Excellent	Very organized	Extremely well	Agree	Agree
2021/06/05 9:16:49 am GMT+5:30	19104154	Sonu Unnikrishnan	Cse c	A lot	Very good	Extremely organize	Very Well	Agree	Strongly agree

2021/06/05 9:16:51 am GMT+5:30	19104063	Gowtham P	CSE A	A great deal	Excellent	Extremely organize	Extremely well	Agree	Agree
2021/06/05 9:16:52 am GMT+5:30	19104034	BARATHRAJ R S	BE.CSE-A	A great deal	Excellent	Extremely organize	Extremely well	Agree	Agree
2021/06/05 9:16:52 am GMT+5:30	19104017	aneesh abdul rahman	CSE-A	A lot	Good	Moderately organize	Very Well	Neutral	Agree
2021/06/05 9:16:59 am GMT+5:30	19104133	raavi nathan kumar	CSE-C	A lot	Very good	Extremely organize	Very Well	Strongly disagree	Strongly disagree
2021/06/05 9:17:04 am GMT+5:30	19110045	M.kesavan	B.Tech Informati	A lot	Very good	Very organized	Very Well	Agree	Agree
2021/06/05 9:17:12 am GMT+5:30	19104028	ASHISH SURESH	CSE	A lot	Very good	Very organized	Very Well	Neutral	Neutral
2021/06/05 9:17:31 am GMT+5:30	19104152	Sneka.M	Cse	A lot	Excellent	Very organized	Extremely well	Agree	Agree
2021/06/05 9:17:42 am GMT+5:30	19104140	M.Sadhana	Cse	A great deal	Excellent	Extremely organize	Extremely well	Strongly agree	Strongly agree
2021/06/05 9:18:24 am GMT+5:30	19104084	KAVIYARASU S	CSE	A great deal	Excellent	Extremely organize	Extremely well	Strongly agree	Strongly agree
2021/06/05 9:18:40 am GMT+5:30	19104134	RAJA M	CSE	A lot	Excellent	Extremely organize	Extremely well	Agree	Agree
2021/06/05 9:20:05 am GMT+5:30	19104031	Balayogeswaran. S	CSE-A	A great deal	Very good	Moderately organize	Very Well	Neutral	Strongly disagree
2021/06/05 9:23:27 am GMT+5:30	19104170	VIGNESH. K	CSE	A great deal	Excellent	Very organized	Extremely well	Agree	Agree
2021/06/05 9:28:59 am GMT+5:30	19104802	M. Hari vignesh	Cse 2nd year "c"	A lot	Excellent	Extremely organize	Extremely well	Strongly agree	Agree
2021/06/05 9:29:55 am GMT+5:30	19104172	k.vinusuriya	cse'c'	A moderate amount	Very good	Very organized	Very Well	Agree	Agree
2021/06/05 9:30:13 am GMT+5:30	1911Q024	Flashma S	Information tech	A moderate amount	Good	Very organized	Very Well	Agree	Agree
2021/06/05 9:31:04 am GMT+5:30	19110043	Karan K	IT-A	A lot	Very good	Very organized	Slightly Well	Disagree	Disagree
2021/06/05 9:32:12 am GMT+5:30	19110006	Akash.R	IT a	A great deal	Very good	Very organized	Very Well	Neutral	Neutral
2021/06/05 9:33:54 am GMT+5:30	19110025	Geethaashree V	B.tech.,IT	A moderate amount	Good	Moderately organize	Very Well	Neutral	Neutral
2021/06/05 9:35:47 am GMT+5:30	19110034	INIYAN S S	IT	A lot	Very good	Moderately organize	Very Well	Neutral	Neutral
2021/06/05 9:36:13 am GMT+5:30	19110106	S.Vignesh	IT-B	A great deal	Good	Very organized	Very Well	Agree	Agree
2021/06/05 9:37:04 am GMT+5:30	19110017	Charan N	IT	A lot	Excellent	Very organized	Very Well	Agree	Strongly agree
2021/06/05 9:37:11 am GMT+5:30	19110007	ALAKESVARAN G	B.TECH IT	A great deal	Good	Very organized	Slightly Well	Agree	Agree
2021/06/05 9:37:14 am GMT+5:30	19104033	Barath	CSE-A	A lot	Very good	Very organized	Very Well	Agree	Agree
2021/06/05 9:38:41 am GMT+5:30	19110021	A.Dhivya dharshini	IT	A lot	Very good	Very organized	Very Well	Agree	Agree
2021/06/05 9:38:58 am GMT+5:30	19110104	Vignesh.K	BTECH IT	A moderate amount	Very good	Very organized	Very Well	Neutral	Neutral
2021/06/05 9:39:31 am GMT+5:30	19110005	Akalya.R	IT A	A moderate amount	Very good	Very organized	Slightly Well	Agree	Agree
2021/06/05 9:39:51 am GMT+5:30	19104125	PAVITHRA M	CSE	A lot	Very good	Very organized	Very Well	Agree	Neutral
2021/06/05 9:39:59 am GMT+5:30	19110014	CHANDRU P	IT-A	A lot	Good	Moderately organize	Very Well	Agree	Agree
2021/06/05 9:40:32 am GMT+5:30	1914144	shiyam k	cse c	A moderate amount	Good	Very organized	Very Well	Agree	Agree
2021/06/05 9:41:00 am GMT+5:30	19110009	ASWATH S	IT	A lot	Very good	Very organized	Very Well	Agree	Agree
2021/06/05 9:41:07 am GMT+5:30	19104030	BALA PRIYA	CSE-A	A great deal	Very good	Extremely organize	Very Well	Agree	Agree
2021/06/05 9:41:21 am GMT+5:30	19104008	AJITHKUMAR A	Cse	A little	Good	Moderately organize	Very Well	Neutral	Neutral
2021/06/05 9:41:27 am GMT+5:30	19104031	Balayogeswaran S	CSE-A	A great deal	Very good	Very organized	Very Well	Neutral	Strongly disagree

2021/06/05 9:38:41 am GMT+5:30	19104110	NANDHAKUMAR G	CSE	A lot	Very good	Moderately organized	Extremely well	Neutral	Agree
2021/06/05 9:38:58 am GMT+5:30	19104112	NANDHINI DEVI K	CSE	A great deal	Excellent	Extremely organized	Extremely well	Strongly agree	Strongly agree
2021/06/05 9:39:31 am GMT+5:30	19104113	NARESH KUMAR K	CSE	A lot	Excellent	Very organized	Very Well	Agree	Agree
2021/06/05 9:45:18 am GMT+5:30	19104114	NATARAJAN I	CSE	A lot	Good	Very organized	Slightly Well	Agree	Agree
2021/06/05 9:45:45 am GMT+5:30	19104115	NAVEEN KUMAR R	CSE	A lot	Good	Very organized	Very Well	Agree	Agree
2021/06/05 9:46:25 am GMT+5:30	19104117	NEETHU MOL M	CSE	A great deal	Very good	Extremely organized	Very Well	Agree	Agree
2021/06/05 9:46:33 am GMT+5:30	19104118	NIDHIN R	CSE	A lot	Very good	Very organized	Very Well	Agree	Agree
2021/06/05 9:46:54 am GMT+5:30	19104119	NIHAL ABDUL GAFUR	CSE	A lot	Very good	Moderately organized	Very Well	Agree	Agree
2021/06/05 9:46:55 am GMT+5:30	19104120	NIVETHA K	CSE	A lot	Excellent	Extremely organized	Extremely well	Agree	Agree
2021/06/05 9:47:21 am GMT+5:30	19104121	OVIYA R	CSE	A moderate amount	Very good	Very organized	Very Well	Neutral	Neutral
2021/06/05 9:47:40 am GMT+5:30	19104122	OYNDRISHA RAKSHI	CSE	A lot	Very good	Very organized	Very Well	Agree	Agree
2021/06/05 9:47:51 am GMT+5:30	19104123	PADALA DHAVAN B	CSE	A lot	Very good	Very organized	Very Well	Strongly agree	Agree
2021/06/05 9:37:11 am GMT+5:30	19104124	PARA VENKATA SAI	CSE	A moderate amount	Very good	Very organized	Very Well	Agree	Agree
2021/06/05 9:37:14 am GMT+5:30	19104127	POORANAPUSHPA R	CSE	A lot	Excellent	Very organized	Extremely well	Agree	Agree
2021/06/05 9:38:41 am GMT+5:30	19104135	RAJEZHILKO A K	CSE	A great deal	Very good	Extremely organized	Very Well	Agree	Agree
2021/06/05 9:38:58 am GMT+5:30	19104139	SABARIVASAN P	CSE	A lot	Excellent	Very organized	Extremely well	Agree	Agree
2021/06/05 9:39:31 am GMT+5:30	19104141	SAKTHIVEL M	CSE	A lot	Very good	Very organized	Very Well	Agree	Agree
2021/06/05 9:49:21 am GMT+5:30	19104153	SOLASA NAGA SAI	CSE	A moderate amount	Very good	Moderately organized	Slightly Well	Agree	Agree
2021/06/05 9:49:22 am GMT+5:30	19104159	SUNDARRAJ M	CSE	A great deal	Excellent	Very organized	Very Well	Strongly agree	Agree



HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

TECHNICAL VALLEY CAMPUS

COIMBATORE – 641 032.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VALUE ADDED COURSE

2020-2021



HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

COIMBATORE – 641 032.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CIRCULAR

Date: 27.05.2021

This is to inform that the value added course for Database Using SQL has been planned to conduct from 31.05.2021 to 04.06.2021 through online for second year students. The regular classes will be cancelled and the enrolled students are hereby instructed to attend and complete the course.

The meet-link will be shared to the enrolled students mail-id.

HOD/CSE



Hindusthan College of Engineering and Technology

Coimbatore - 641032 , www.hicet.ac.in

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

VALUE ADDED COURSE

Database using SQL

DURATION

31.05.2021 TO 05.06.2021

TIME

10:00 AM TO 12:30 PM
&
2:00 PM TO 4:30 PM

RESOURCE PERSONS

Dr.D.Rasi
Associate Prof /IT

Ms.M.Indirani
Assistant Prof/IT

CONTENT TO BE DELIVERED

- DDL, DML, DCL commands
- Nested, Join queries, Views and constraints
- Database Connectivity

COURSE OUTCOMES

- Use typical DDL, DML, DCL commands
- Use constraints, Nested and Join Queries, Views, Functions in database
- Implement database connectivity

GOOGLE MEET LINK

[CLICK HERE](#)



HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY
OTHAKKALMANDAPAM POST, POLLACHI MAIN ROAD, COIMBATORE-641032

VALUE ADDED COURSE

CLASS & SEC:II CSE

SUBJECT		DATABASE USING SQL
S.No.	Register Number	Name of the Student
1	19104001	Abdul Rizman.M
2	19104004	Adithya S Nair
3	19104014	Nagamaahesh Akkineni
4	19104015	Akshaya S
5	19104019	Anugraha C
6	19104020	Aravinth vimal
7	19104021	Arfath E
8	19104022	Arjun A
9	19104024	Arun prakash H
10	191014027	Ashay Krishna s
11	19104029	Ashly Manuvel
12	19104032	Bangarulakshmanan S
13	19104037	Bibin Prabakaran
14	19104038	Chandeesh C
15	19104039	Charugnethra M
16	19104040	Chethan M
17	19104041	Danish L
18	19104043	Devadharani R
19	19104044	Dhanalakshmi S
20	19104045	Dhanish N.Ershad
21	19104047	Dhesika S
22	19104051	Dhupati Yahosuva
23	19104052	Gaddam Venkata Sai
24	19104053	Teja Gadde
25	19104055	Ganeshkumar S N
26	19104058	Gokul VU
27	19104060	Gonuguntla Guna Shekar Sadanya
28	19104064	Gutta Venkata Srinivas

29	19104065	GUVVALA SUMANTH NATH REDDY
30	19104066	HARI PRIYA C
31	19104068	HARISH S
32	19104069	HASAN HARUN P
33	19104070	HEMANATH T
34	19104071	HIRUTHIK P
35	19104074	KAGGA RAVINDRA
36	19104075	KALIRAJAN P
37	19104077	KARIMAJI PAVAN NAGA DURGA RAMESH
38	19104078	KARTHIKA M
39	19104079	KARTHIKEYAN R
40	19104080	KARUPPASAMY M
41	19104083	KAVIYA R
42	19104085	KEERTHIPRIYAN S
43	19104086	KIRTHIK S
44	19104087	KISHORE THILAK S
45	19104089	LAKSHANYA M
46	19104090	LAVANYA G
47	19104091	MADHU SURYA M
48	19104092	MANIKANDAN A
49	19104094	MANOJKUMAR R
50	19104095	MARI SELVAM K
51	19104097	MATHISH P
52	19104099	MIRUNALINI S G
53	19104102	MOHANAKRISHNAN S
54	19104104	MOHIN N
55	19104105	MUGESHKUMAR S
56	19104106	MUGHILAN G
57	19104107	MUHAMAD TAWFEEQ R
58	19104108	MUTHA J SUBHASH SAI SURYA NAGA SRINIVAS
59	19104110	NANDHAKUMAR G
60	19104112	NANDHINI DEVI K
61	19104113	NARESH KUMAR K M
62	19104114	NATARAJAN I

63	19104115	NAVEEN KUMAR R
64	19104117	NEETHU MOL M
65	19104118	NIDHIN R
66	19104119	NIHAL ABDUL GAFOOR
67	19104120	NIVETHA K
68	19104121	OVIYA R
69	19104122	OYNDRISHA RAKSHIT
70	19104123	PADALA DHAVAN BABU
71	19104124	PARA VENKATA SAI TEJA MANI KUMAR
72	19104127	POORANAPUSHPAKALA
73	19104135	RAJEZHILKO A K
74	19104139	SABARIVASAN P
75	19104141	SAKTHIVEL M
76	19104153	SOLASA NAGA SAI SURENDRA GUPTA
77	19104159	SUNDARRAJ M
78	19104163	SUSANTH S
79	19104164	TALLAPANENI THANMAI CHOWDARY
80	19104177	YARRAMASU RAMYA SREE
81	19104601	SUJEETH N
82	19104801	GANESH S

7/25



HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY
Valley Campus, Pollachi Highway
Coimbatore - 641032


DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SCHEDULE FOR VALUE ADDED COURSE

DEPARTMENT OF CSE

DATABASE USING SQL

Date	Session	Resource Person	Meet Link
31.05.2021	FN- 10.00 am-1.00 pm AN- 2.00 pm -5.00 pm	Batch A (IT Students) Mr.M.Ganesan Assistant Prof/IT Ms.J.Uma Assistant Prof/IT	Batch A (IT Students) https://meet.google.com/lookup/cni3bwd2hx
01.06.2021	FN- 10.00 am-1.00 pm AN- 2.00 pm -5.00 pm		
02.06.2021	FN- 10.00 am-1.00 pm AN- 2.00 pm -5.00 pm		
03.06.2021	FN- 10.00 am-1.00 pm AN- 2.00 pm -5.00 pm	Batch B (CSE Students) Dr.D.Rasi Associate Prof /IT Ms.M.Indirani Assistant Prof/IT	Batch B (CSE Students) https://meet.google.com/lookup/ao24e5y4ck?authuser=0&hs=179
04.06.2021	FN- 10.00 am-1.00 pm AN- 2.00 pm -5.00 pm		
05.06.2021	Assessment and Feedback		


HOD/CSE

The screenshot shows a Google Meet session. The main area displays a grid of 24 participants, each with a circular icon and a name starting with 'HICET' and a student ID. A chat window on the right shows messages from 'ao24e5y4ck' with timestamps and SQL queries. The bottom of the screen shows the meeting controls, including a microphone icon, a 'Raise hand' button, and a 'Present now' button. The system tray at the bottom right indicates the time is 2:43 PM on 6/1/2021.

The screenshot shows the Oracle Live SQL interface. At the top, there is a navigation bar with 'Live SQL', 'Feedback', 'Help', and a user profile for 'mindirani2008@gmail.com'. Below this is a 'SQL Worksheet' section with a toolbar containing 'Clear', 'Find', 'Actions', 'Save', and 'Run' buttons. The main area contains a list of SQL queries:

```

14 SELECT Cos(90) "COS VALUE" FROM Dual;
15 SELECT Sqrt(81) FROM Dual;
16 SELECT MOD(5,2) "REMAINDER" FROM Dual;
17 SELECT lower('WELCOME') "LOWER CASE" FROM Dual;
18 SELECT LTRIM('ANUSHA', 'AN') "LEFT TRIM" FROM Dual;
19 SELECT LENGTH('AKSHAYA') "STRING LENGTH" FROM Dual;
20 SELECT TO_CHAR(SysDate, 'hh:ss:mm') "TIME" FROM Dual;
21 SELECT ADD_MONTHS(SysDate, -5) "ADDMONTH" FROM Dual;
22

```

Enter any notes specific to this class:

- 19104124 Hicet - Student Cse
- 19104127 Hicet - Student Cse
- 19104139 Hicet - Student Cse
- 19104153 Hicet - Student Cse
- 19104159 Hicet - Student Cse
- 19104162 Hicet - Student Cse
- 19104164 Hicet - Student Cse
- 19104177 Hicet - Student Cse
- 19104601 Hicet - Student Cse
- M.Revathi Hicet Staff Cse
- 19104120 Hicet - Student Cse Have
- D.Rasi Hicet Staff It
- M.Indirani Hicet Staff It
- M.Sathish Kumar Hicet Staff It

Google Meet Attendance - v1.5.2

IN CALL

- M M.INDIRANI HICE... (You)
- M M.INDIRANI HICET STAF... Your presentation
- H 19104037 HICET - STUD...
- H 19104104 HICET - STUD...
- H 19104153 HICET - STUD...

Raise hand You are presenting

livesql.oracle.com/apex?f?p=590:1:1327651272102::NG:PF=

Live SQL Feedback Help mindirani2008@gmail.com

SQL Worksheet

```

4 insert into stud50 values('kanan',35);
5 select * from stud50;
6 insert into stud50(name) values('raja');
7 select * from stud50;
8 INSERT INTO stud50 VALUES('Alex', null);
9 select * from stud50;
10 INSERT INTO Stud50 VALUES('Cheran', default);
11 UPDATE stud50 SET rno=18 WHERE name='anu';
12 UPDATE stud50 SET rno=55 WHERE name='kanan';
13 UPDATE stud50 SET name='rekha',rno=28 WHERE name='anu';
14 UPDATE student SET rno = rno+1;
15 delete from stud50 where name='kanan';

```

REC

19104110 HICET - STUDENT

19104114 HICET - STUDENT

19104019 HICET - STUDENT

19104029 HICET - STUDENT

19104043 HICET - STUDENT

19104047 HICET - STUDENT

ao24e5y4ck

(35)

19104177 HICET - STUDENT CSE 14:06
Yes mam

19104159 HICET - STUDENT CSE 14:08
No mam

19104177 HICET - STUDENT CSE 14:08
It's Clear mam

Send a message to everyone

Enter any notes specific to this class.

g to everyone

19104124 Hicet - Student Cse
 19104127 Hicet - Student Cse
 19104139 Hicet - Student Cse
 19104153 Hicet - Student Cse
 19104159 Hicet - Student Cse
 19104163 Hicet - Student Cse
 19104164 Hicet - Student Cse
 19104177 Hicet - Student Cse
 19104601 Hicet - Student Cse
 M.Revathi Hicet Staff Cse
 19104120 Hicet - Student Cse Have
 D.Rasi Hicet Staff It
 M.Indirani Hicet Staff It
 M.Sathish Kumar Hicet Staff It

Google Meet Attendance - v1.5.2

IN CALL

- M M.JINDIRANI HICE... (You) [Microphone icon] [Pin icon]
- M M.JINDIRANI HICET STAF... [Microphone icon] [Pin icon]
Your presentation
- H 19104037 HICET - STUD... [Microphone icon] [More icon]
- H 19104104 HICET - STUD... [Microphone icon] [More icon]
- H 19104153 HICET - STUD... [Microphone icon] [More icon]

Raise hand You are presenting

livesqloracle.com/apex/?p=590:113276312721102:NGRP:

Live SQL Feedback Help mindirani2008@gmail.com

SQL Worksheet

Clear Find Actions Save Run

```

4 insert into stud50 values('kanan',35);
5 select * from stud50;
6 insert into stud50(name) values('raja');
7 select * from stud50;
8 INSERT INTO stud50 VALUES('Alex', null);
9 select * from stud50;
10 INSERT INTO Stud50 VALUES('Cheran', default);
11 UPDATE stud50 SET rno=18 WHERE name='anu';
12 UPDATE stud50 SET rno=55 WHERE name='kanan';
13 UPDATE stud50 SET name='rekha',rno=28 WHERE name='anu';
14 UPDATE student SET rno = rno+1;
15 delete from stud50 where name='kanan';
  
```

REC

19104110 HICET - STUDENT ... 19104114 HICET - STUDENT ... 19104019 HICET - STUDENT ...

19104029 HICET - STUDENT ... 19104043 HICET - STUDENT ... 19104047 HICET - STUDENT ...

19104055 HICET - STUDENT ... 19104059 HICET - STUDENT ... 19104063 HICET - STUDENT ...

ao24e5y4ck

(35)

19104177 HICET - STUDENT CSE 14:06
Yes mam

19104159 HICET - STUDENT CSE 14:08
No mam

19104177 HICET - STUDENT CSE 14:08
It's Clear mam

Send a message to everyone

ao24e5y4ck

no mam

19104091 HICET - STUDENT CSE 14:33
select names from stud100 where mark2>75

19104089 HICET - STUDENT CSE 14:35
Select names,rol_num from stud100 where mark2>75

19104091 HICET - STUDENT CSE 14:35
select name,no from stud100 where mark2>75;

19104066 HICET - STUDENT CSE 14:37
Select name,regno from stud100 where mark2>75;

Send a message to everyone

ao24e5y4ck

2:40 PM
6/17/2021

Oracle Live SQL

Feedback Help mindirani2008@gmail.com

SQL Worksheet

Clear Find Actions Save Run

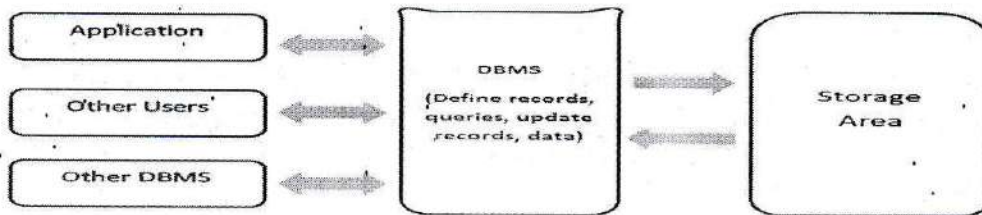
```

14 SELECT Cos(90) "COS VALUE" FROM Dual;
15 SELECT Sqrt(81) FROM Dual;
16 SELECT MOD(5,2) "REMAINDER" FROM Dual;
17 SELECT lower('WELCOME') "LOWER CASE" FROM Dual;
18 SELECT LTRIM('ANUSHA', 'AN') "LEFT TRIM" FROM Dual;
19 SELECT LENGTH('AKSHAYA') "STRING LENGTH" FROM Dual;
20 SELECT TO_CHAR(SysDate, 'hh:ss:mm') "TIME" FROM Dual;
21 SELECT ADD_MONTHS(SysDate, -5) "ADDMONTH" FROM Dual;
22

```

What are Databases

A database is an organized collection of data, generally stored and accessed electronically from a computer system. It supports the storage and manipulation of data.



Types of Databases

- Centralized database
- Distributed database
- Personal database
- End-user database
- Commercial database
- NoSQL database
- Operational database
- Relational database
- Cloud database
- Object-oriented database
- Graph database

Advantages of using Databases

- Reduced data redundancy
- Reduced updating errors and increased consistency
- Greater data integrity and independence from application programs
- Improved data access to users through the use of host and query languages
- Improved data security
- Reduced data entry, storage, and retrieval costs

Disadvantages of using Databases

There are many disadvantages of databases

- Although databases allow businesses to store and access data efficiently, they also have certain disadvantages
- Complexity
- Cost
- Security
- Compatibility

Some examples of Databases

Some of the most popular databases are

1. Oracle Database
2. Sybase
3. MySQL

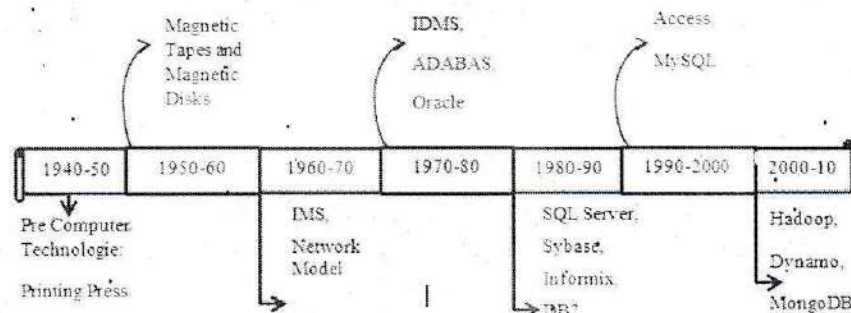
History of Databases

The emergence of the first type of DBMS, the hierarchical DBMS. IBM had the first model, developed on IBM 360 and their (DBMS) was called IMS, originally it was written for the Apollo program. This type of DBMS was based on binary trees, where the shape was like a tree and relations were only limited between parent and child records. The benefits were numerous; less redundant data, data independence, security, and integrity, which all lead to efficient searches. Nonetheless; there were some disadvantages such as; complex implementation, which was hard to manage because of the absence of standards, which made it harder to handle many relationships.

Early History of Databases

Before databases existed, everything had to be recorded on paper. We had lists, journals, ledgers and endless archives containing hundreds of thousands or even millions of records contained in filing cabinets. When it was necessary to access one of these records, finding and physically obtaining the record was a slow and laborious task. There were often problems ranging from misplaced records to fires that wiped out entire archives and destroyed the history of societies, organizations and governments. There were also security problems because physical access was often easy to gain. The database was created to try and solve these limitations of traditional paper-based information storage. In databases, the files are called records and the individual data elements in a record (for example, name, phone number, date of birth) are called fields. The way these elements are stored has evolved since the early days of databases.

The earliest systems were called the hierarchical and network models. The hierarchical model organized data in a tree-like structure, as shown in fig and IBM developed this model in the 1960s.



- **1960:** 2 models were in use when the concept of computerized DBMS started. It was at the same time that the use of computers became the choice for private organizations. Models used then CODASYL (N/W MODEL) and IMS (IBM's hierarchical model). SABRE system by IBM was designed to help American Airlines manage reservations data.
- **1969:** IBM introduced its first-ever mainframe machine as System/360.
- **1970-72:** E.F. Codd published a vital paper stating the use of RDBMS wherein he mentioned the DB schema being disconnected from the physical information storage; which then became the gold standard for DBMS. 1970s: 2 major RDBMS prototypes were designed viz. INGRES by UBC and System R by IBM San Jose. While INGRES designed query language QUEL which ultimately resulted in INGRES CORP., MS SQL SERVER, SYBASE, WANG'S PACE,

and BRITTON-LEE; SystemR used the query language 'SEQUEL'. This then resulted in the development of SQL/DS, DB2, Allbase, Oracle and Non-stop SQL.

- **1976:** ERD also known as entity-relationship diagrams came into play. These were proposed by P. Chen. They are also known as the conceptual models which focused more on the data application rather than logical tabular structure.
- **1980s:** SQL became the standard query language. RDBMS was widely popular and DB2 became a flagship product by IBM. Later on, the introduction of IBM PCs further resulted in several new DB companies and products such as RBASE 5000 and RIM, PARADOX
- **Early 90s:** post DB industry shakeout, surviving companies sold their products at high prices. Meanwhile, new client tools for developing applications were released. These included Oracle Developer, VB and PowerBuilder. ODBC prototypes and Excel/Access were also developed within the same timeframe.
- **The Mid 90s:** Internet became popular which caused the exponential growth of the DB industry. More people with average desktops started using client/server systems for legal data.
- **Late 90s:** investment in online business resulted in internet DB connectors like FrontPage, Active Server Pages, Java Servlets, Dream Weaver, Oracle Developer 2000 and Enterprise Java Beans. Use of Apache, MySQL, and other systems introduced open-source solutions to the Internet. Gradually, online transaction processing and analytic processing became popular.
- **The 2000s:** DB applications were not affected by the decline of the internet industry. Interactive applications for PDAs, point-of-sale transactions and consolidation of vendors were developed.
- **Present:** Currently, Microsoft, Oracle, and IBM are the leading companies for Database Systems.

Database Management System

A database management system (DBMS) is a software package designed to define, manipulate, retrieve and manage data in a database. A DBMS generally manipulates the data itself, the data format, field names, record structure, and file structure. It also defines rules to validate and manipulate this data. In other words, a database management system is a combination of hardware and software that can be used to set up and monitor a database and can manage the updation and retrieval of the database that has been stored in it.

Types of Databases

There are 4 major types of DBMS. Let's look into them in detail.

- **Hierarchical** - this type of DBMS employs the "parent-child" relationship of storing data. This type of DBMS is rarely used nowadays. Its structure is like a tree with nodes representing records and branches representing fields. The windows registry used in Windows XP is an example of a hierarchical database. Configuration settings are stored as tree structures with nodes.
- **Network DBMS** - this type of DBMS supports many-to-many relations. This usually results in complex database structures. RDM Server is an example of a database management system that implements the network model.

- **Relational DBMS** - this type of DBMS defines database relationships in the form of tables, also known as relations. Unlike network DBMS, RDBMS does not support many to many relationships. Relational DBMS usually have pre-defined data types that they can support. This is the most popular DBMS type in the market. Examples of relational database management systems include MySQL, Oracle, and Microsoft SQL Server database.
- **Object-Oriented DBMS** - this type supports the storage of new data types. The data to be stored is in the form of objects. The objects to be stored in the database have attributes (i.e. gender, age) and methods that define what to do with the data. PostgreSQL is an example of an object-oriented relational DBMS.

Hierarchical DBMS

A hierarchical model represents the data in a tree-like structure in which there is a single parent for each record. To maintain order there is a sort field that keeps sibling nodes into a recorded manner. These types of models are designed basically for the early mainframe database management systems, like the Information Management System (IMS) by IBM. This model structure allows the one-to-one and a one-to-many relationship between two/more types of data. This structure is very helpful in describing many relationships in the real world; table of contents, any nested and sorted information.

The hierarchical structure is used as the physical order of records in storage. One can access the records by navigating down through the data structure using pointers which are combined with sequential accessing. Therefore, the hierarchical structure is not suitable for certain database operations when a full path is not also included for each record. Data in this type of database is structured hierarchically and is typically developed as an inverted tree. The "root" in the structure is a single table in the database and other tables act as the branches flowing from the root. The diagram below shows a typical hierarchical database structure.

A relationship in this database model is represented by the term parent/child. A parent table can be linked with one or more child tables in this type of relationship, but a single child table can be linked with only one parent table. The tables are explicitly linked via a pointer/index or by the physical arrangement of the records within the tables.

A user can access the data by starting at the root table and working down through the tree to the target data. The user must be familiar with the structure of the database to access the data without any complexity.

The IBM Information Management System (IMS) and the RDM Mobile are examples of a hierarchical database system with multiple hierarchies over the same data.

Advantages

Let's discuss some advantages of Hierarchical DBMS

1. A user can retrieve data very quickly due to the presence of explicit links between the table structures.
2. The referential integrity is built-in and automatically enforced due to which a record in a child table must be linked to an existing record in a parent table, along with that if a record deleted in the parent table then that will cause all associated records in the child table to be deleted as well.

Disadvantages

Let's discuss some disadvantages of Hierarchical DBMS

1. When a user needs to store a record in a child table that is currently unrelated to any record in a parent table, it gets difficulty in recording and the user must record an additional entry in the parent table.
2. This type of database cannot support complex relationships, and there is also a problem of redundancy, which can result in producing inaccurate information due to the inconsistent recording of data at various sites.

Network DBMS

The network model is the extension of the hierarchical structure because it allows many-to-many relationships to be managed in a tree-like structure that allows multiple parents.

In other words, Network databases are hierarchical databases but unlike hierarchical databases where one node can have one parent only, a network node can have a relationship with multiple entities. A network database looks more like a cobweb or interconnected network of records.

In network databases, children are called members and parents are called occupiers. The difference between each child or member can have more than one parent.

There are two fundamental concepts of a network model:

1. Records contain fields that need hierarchical organization.
2. Sets are used to define one-to-many relationships between records that contain one owner, many members.

A record may act like an owner in any number of sets, and a member in any number of sets.

Some well-known database systems that use the network model include:

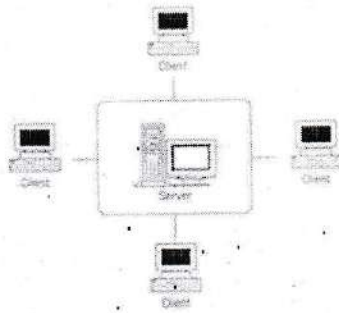
- Integrated Data Store (IDS)
- IDMS (Integrated Database Management System)

Relational DBMS

RDBMS stands for Relational Database Management Systems.

All modern database management systems like SQL, MS SQL Server, IBM DB2, ORACLE, My-SQL, and Microsoft Access are based on RDBMS. It is called Relational Database Management System (RDBMS) because it is based on the relational model introduced by E.F. Codd. Standard relational databases enable users to manage predefined data relationships across multiple databases.

Popular examples of relational databases include Microsoft SQL Server, Oracle Database, MySQL, and IBM DB2.



Relational databases work on each table has a key field that uniquely indicates each row, and that these key fields can be used to connect one table of data to another.

The relational database has two major reasons

1. Relational databases can be used with little or no training.
2. Database entries can be modified without specifying the entire body.

Advantages

Let's discuss some advantages of Relational DBMS

- Simplicity
- Ease of Data Retrieval
- Data Integrity
- Flexibility

Disadvantages

Let's discuss some disadvantages of Relational DBMS

- They tend to be slow and not scalable. If you have more servers you can't always do more work with them.
- They have a fixed schema which is a plus unless this hurts productivity too much.
- Tables don't always map to objects in applications very well.
- They are not secure enough to expose to the internet and need a layer to be added to protect them.
- They are not good at modelling certain kinds of data such as graphs and geo-spatial queries.
- They are not at storing very large records.



HINDUSTHAN

College of Engineering and Technology

(An Autonomous Institution)

Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032

Value Added Course

This is to certify that

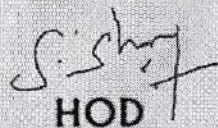
Akash Kumar of II Year CSE

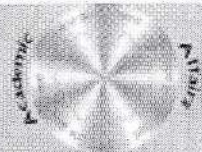
has successfully completed the course


Database Using SQL

from 31/05/2021 to 05/06/2021

during the ODD Semester of the Academic Year 2020-2021


HOD




DEAN-ACADEMICS


PRINCIPAL

Certificate Number - 2020E101-001

FEEDBACK FOR VAC ON Database Using SQL

Timestamp	REG NO:	NAME:	DEPT:	How much did you learn from this value added course?	Overall, how would you describe the quality of the instruction in this course?	How organized was this course?	How well did you achieve learning goal in this course?	The technology used was appropriate for this course?	The class size was appropriate
2021/06/05 9:11:11 am GMT+5:30	19104001	Abdul Rizman.M	CSE	A great deal	Excellent	Extremely organize	Extremely well	Agree	Neutral
2021/06/05 9:11:14 am GMT+5:30	19104004	Adithya S Nair	CSE	A great deal	Excellent	Extremely organize	Extremely well	Strongly agree	Strongly agree
2021/06/05 9:13:29 am GMT+5:30	19104014	Nagamahesh Akkineni	CSE	A lot	Excellent	Very organized	Very Well	Agree	Neutral
2021/06/05 9:13:36 am GMT+5:30	19104015	Akshaya S	CSE	A lot	Excellent	Extremely organize	Extremely well	Agree	Strongly agree
2021/06/05 9:13:03 am GMT+5:30	19104019	Anugraha C	CSE	A lot	Excellent	Extremely organize	Extremely well	Strongly agree	Strongly agree
2021/06/05 9:14:05 am GMT+5:30	19104020	Aravinth vimal	CSE	A lot	Excellent	Very organized	Very Well	Agree	Agree
2021/06/05 9:14:05 am GMT+5:30	19104021	Arfath E	CSE	A lot	Very good	Very organized	Very Well	Neutral	Agree
2021/06/05 9:14:07 am GMT+5:30	19104022	Arjun A	CSE	A great deal	Very good	Very organized	Extremely well	Neutral	Neutral
2021/06/05 9:14:07 am GMT+5:30	19104024	Arun prakash H	CSE	A great deal	Excellent	Very organized	Very Well	Agree	Agree
2021/06/05 9:14:10 am GMT+5:30	191014027	Ashay Krishna s	CSE	A moderate amount	Very good	Very organized	Extremely well	Agree	Agree
2021/06/05 9:14:37 am GMT+5:30	19104029	Ashly Manuvel	CSE	A moderate amount	Excellent	Extremely organize	Very Well	Strongly agree	Strongly agree
2021/06/05 9:14:48 am GMT+5:30	19104032	Bangarulakshmanan S	CSE	A moderate amount	Excellent	Very organized	Very Well	Agree	Agree
2021/06/05 9:14:52 am GMT+5:30	19104057	Bibin Prabakaran	CSE	A lot	Excellent	Extremely organize	Extremely well	Neutral	Neutral
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2021/06/05 9:15:12 am GMT+5:30	19104040	Chethan M	CSE	A lot	Excellent	Extremely organize	Very Well	Strongly agree	Strongly agree
2021/06/05 9:15:13 am GMT+5:30	19104041	Danish L	CSE	A lot	Excellent	Very organized	Extremely well	Strongly disagree	Disagree
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2021/06/05 9:16:00 am GMT+5:30	19104047	Dhesika S	CSE	A lot	Excellent	Very organized	Extremely well	Agree	Agree
2021/06/05 9:16:06 am GMT+5:30	19104051	Dhupati Yahosuva	CSE	A lot	Excellent	Extremely organize	Extremely well	Agree	Strongly agree
2021/06/05 9:16:32 am GMT+5:30	19104052	Gaddam Venkata Sai	CSE	A lot	Very good	Very organized	Very Well	Agree	Neutral
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2021/06/05 9:16:49 am GMT+5:30	19104055	Ganeshkumar S N	CSE	A lot	Very good	Extremely organize	Very Well	Agree	Strongly agree

2021/06/05 9:16:51 am GMT+5:30	19104058	Gokul VU	CSE	A great deal	Excellent	Extremely organize	Extremely well	Agree	Agree
2021/06/05 9:16:52 am GMT+5:30	19104060	Gonuguntla Guna She	CSE	A great deal	Excellent	Extremely organize	Extremely well	Agree	Agree
2021/06/05 9:16:52 am GMT+5:30	19104064	Gutta Venkata Sriniva	CSE	A lot	Good	Moderately organiza	Very Well	Neutral	Agree
2021/06/05 9:16:59 am GMT+5:30	19104065	GUVVALA SUMANT	CSE	A lot	Very good	Extremely organize	Very Well	Strongly disagr	Agree
2021/06/05 9:17:04 am GMT+5:30	19104066	HARI PRIYA C	CSE	A lot	Very good	Very organized	Very Well	Agree	Agree
2021/06/05 9:17:12 am GMT+5:30	19104068	HARISH S	CSE	A lot	Very good	Very organized	Very Well	Neutral	Neutral
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2021/06/05 9:17:42 am GMT+5:30	19104070	HEMANATH T	CSE	A great deal	Excellent	Extremely organize	Extremely well	Strongly agree	Strongly agree
2021/06/05 9:18:24 am GMT+5:30	19104071	HIRUTHIK P	CSE	A great deal	Excellent	Extremely organize	Extremely well	Strongly agree	Strongly agree
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2021/06/05 9:23:27 am GMT+5:30	19104077	KARIMAJI PAVAN	CSE	A great deal	Excellent	Very organized	Extremely well	Agree	Agree
2021/06/05 9:28:59 am GMT+5:30	19104078	KARTHIKA M	CSE	A lot	Excellent	Extremely organize	Extremely well	Strongly agree	Agree
2021/06/05 9:29:55 am GMT+5:30	19104079	KARTHIKEYAN R	CSE	A moderate amount	Very good	Very organized	Very Well	Agree	Agree
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2021/06/05 9:32:12 am GMT+5:30	19104085	KEERTHIPRIYAN S	CSE	A great deal	Very good	Very organized	Very Well	Neutral	Neutral
2021/06/05 9:33:54 am GMT+5:30	19104086	KIRTHIK S	CSE	A moderate amount	Good	Moderately organiza	Very Well	Neutral	Neutral
2021/06/05 9:35:47 am GMT+5:30	19104087	KISHORE THILAK S	CSE	A lot	Very good	Moderately organiza	Very Well	Neutral	Neutral
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2021/06/05 9:37:04 am GMT+5:30	19104090	LAVANYA G	CSE	A lot	Excellent	Very organized	Very Well	Agree	Strongly agree
2021/06/05 9:37:11 am GMT+5:30	19104091	MADHU SURYA M	CSE	A great deal	Good	Very organized	Slightly Well	Agree	Agree
2021/06/05 9:37:14 am GMT+5:30	19104092	MANIKANDAN A	CSE	A lot	Very good	Very organized	Very Well	Agree	Agree
2021/06/05 9:38:41 am GMT+5:30	19104094	MANOJKUMAR R	CSE	A lot	Very good	Very organized	Very Well	Agree	Agree
2021/06/05 9:38:58 am GMT+5:30	19104095	MARI SELVAM K	CSE	A moderate amount	Very good	Very organized	Very Well	Neutral	Neutral
2021/06/05 9:39:31 am GMT+5:30	19104097	MATHISH P.	CSE	A moderate amount	Very good	Very organized	Slightly Well	Agree	Agree
2021/06/05 9:39:51 am GMT+5:30	19104099	MIRUNALINI S G	CSE	A lot	Very good	Very organized	Very Well	Agree	Neutral
2021/06/05 9:39:59 am GMT+5:30	19104102	MOHANAKRISHNA	CSE	A lot	Good	Moderately organiza	Very Well	Agree	Neutral
2021/06/05 9:40:32 am GMT+5:30	19104104	MOHIN N	CSE	A moderate amount	Good	Very organized	Very Well	Agree	Agree
2021/06/05 9:41:00 am GMT+5:30	19104105	MUGESHKUMAR S	CSE	A lot	Very good	Very organized	Very Well	Agree	Agree
2021/06/05 9:41:07 am GMT+5:30	19104106	MUGHILAN G	CSE	A great deal	Very good	Extremely organize	Very Well	Agree	Agree
2021/06/05 9:37:11 am GMT+5:30	19104107	MUHAMAD TAWFE	CSE	A little	Good	Moderately organiza	Very Well	Neutral	Neutral
2021/06/05 9:37:14 am GMT+5:30	19104108	MUTHA J SUBHASH	CSE	A great deal	Very good	Very organized	Very Well	Neutral	Agree

**Electronics and Communication
Engineering**



Hindusthan College of Engineering And Technology
Approved by AICTE, New Delhi, Accredited with 'A' Grade by NAAC
(An Autonomous Institution, Affiliated to Anna University, Chennai)
Coimbatore — 641 032



Department of Electronics and Communication Engineering

HICET/ECE/May-2021-01

Date: 28.05.2021

CIRCULAR

The Valued Added course on - Arduino & Raspberry Pi for II year 2019-2023 batch will be conducted from 01.06.2021 – 17.06.2021. All the sessions will be conducted in ON LINE mode.

All the Class Advisors are requested to circulate among the students and instruct the students to attend the program on the above mentioned dates

HoD
Dr. P.Rajeshwari
Department of ECE

To

1. Deans & Directors
2. CoE office & File

HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

VALLEY CAMPUS, COIMBATORE - 32

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Proposal for Value Added Programme on

ARDUINO & RASPBERRY PI PROGRAMMING

for Mechatronics Department

*Submitted to the Principal through
Dean Academics*



ABOUT THE PROGRAMME

The objective of the Arduino and raspberry pi value added programme is to provide a versatile education in embedded systems. This programme emphasizes the key aspects of both hardware and software design and development for real time applications using Arduino and Raspberry Pi. The prime focus is laid on the niche areas like, Embedded Controllers, Configuration, Hardware and Software integration, communication protocols, Sensor integration and applications. Its applications are found in sectors like automotive industry, avionics, consumer electronics, medical devices and defense.

AIM OF THE PROGRAMME

This value added programme elucidates concepts related to design and program Arduino and Raspberry Pi. The basic purpose of conducting this programme is to provide aspiring students with a fundamental knowledge of embedded system and the most recent open source software and hardware in Arduino and Raspberry pi. Students learn the basics of software and hardware integration, as well as how to effectively apply this in building prototype of real time applications which improve the employability of students in core industrial sectors.

TOPICS TO BE COVERED

- Introduction to Arduino Embedded Systems
- Arduino I/O Functions
- Arduino Displays
- Arduino Sensors
- Arduino Secondary Integrations
- Arduino Communications
- Real-time Experiments
- Raspberry Pi Set up & Configurations
- Raspberry Pi GPIOs
- PWM generation
- UART Protocol & Interfacing
- I2C Protocol Interfacing & Applications
- Camera Interfacing & Applications Designing
- Raspberry Pi Webserver & IoT
- Real-time Experiments

CONTENTS

1. INTRODUCTION TO ARDUINO EMBEDDED SYSTEMS

- a) Introduction and Scope of Embedded System with Arduino
- b) Overview of basic electronics and digital electronics
- c) Comparison between Microprocessor and microcontrollers
- d) Device and platform features.
- e) Concept of digital and analog ports.
- f) Familiarizing with Arduino Interfacing Board
- g) Introduction to Embedded C and Arduino platform

2. ARDUINO I/O FUNCTIONS

- a) Pins Configured as INPUT
- b) Pull-up Resistors
- c) Pins Configured as OUTPUT
- d) pinMode() Function
- e) digitalWrite() Function
- f) analogRead() function
- g) Arduino Interrupts
- h) ADC program

3. ARDUINO DISPLAYS

- a) Working with Serial monitor
- b) Line graph via serial monitor
- c) Interfacing a 8 bit LCD to Arduino
- d) Fixed one line static message display
- e) Running message display
- f) Using the LCD Library of Arduino

4. ARDUINO SENSORS

- a) Humidity / Temperature Sensor
- b) PIR Sensor
- c) 6 Axis accelerometer
- d) Ultrasonic Sensor
- e) Stepper / Servo Control
- f) Drivers

5. ARDUINO SECONDARY INTEGRATIONS

- a) Types of Relay
- b) Controlling Electrical appliances with electromagnetic relays
- c) Working of a matrix keypad
- d) Using the keypad library to interface with Arduino.
- e) Interfacing Servo motors to Arduino

6. ARDUINO COMMUNICATIONS

- a) Parallel Communication
- b) Serial Communication Modules
- c) Types of Serial Communications
- d) Arduino UART
- e) WiFi / GSM / GPRS Arduino Interfacing
- f) ESP32 / NodeMCU

7. REAL-TIME EXPERIMENTS

- a) Analog /Digital programming
- b) Communication programming
- c) Sensor programming
- d) Display programming
- e) Intelligent water level management system
- f) Real time clock-based home automation
- g) Intelligent Automatic Irrigation System

8. RASPBERRY PI SET UP & CONFIGURATIONS

- a) Program Raspberry Pi
- b) Python programming for Raspberry Pi
- c) Interacting and configuring the RPi OS
- d) ARM 11 architecture
- e) Porting of Linux Kernel and booting RPi

9. RASPBERRY PI GPIOs

- a) Programming the GPIO and interfacing peripherals with Raspberry Pi

10. PWM GENERATION

- a) Generating PWM signals through the Pi for Various applications

11. UART PROTOCOL & INTERFACING

- a) Programming and work with UART protocol

12. I2C PROTOCOL INTERFACING & APPLICATIONS

- a) Work with I2C protocol

13. CAMERA INTERFACING & APPLICATIONS DESIGNING

- a) Camera Libraries & Driver Installations
- b) Camera based applications designing

14. RASPBERRY PI WEBSERVER & IOT

- a) Remote Login methods: HyperTerminal, Ethernet
- b) IoT platform
- c) LED Operation Using IOT

15. REAL-TIME EXPERIMENTS

- a) Smart Home automation
- b) IoT Weather station
- c) Obstacle Avoider Robot

CONTENTS DELIVERY PLANS

SESSION TIMING: 9.30 AM TO 10.30 AM & 11.00 AM TO 12.00 PM

S. No	Title of the Content	Date	No. of Hours	Name of the Faculty
1	Introduction to Arduino Embedded Systems	01.06.2021	2	Mrs. R. VANITHA Assistant Professor / ECE
2	Arduino I/O Functions	02.06.2021	2	
3	Arduino Displays	03.06.2021	2	Mrs. N. MENAKADEVI Assistant Professor / ECE
4	Arduino Sensors	04.06.2021	2	
5	Arduino Secondary Integrations	05.06.2021	2	Mr. T. ANANDA SELVAKARTHIK Assistant Professor / ECE
6	Arduino Communications	07.06.2021	2	
7	Real-time Experiments	08.06.2021	2	Dr. J. SATHEESH KUMAR Assistant Professor / ECE
8	Raspberry Pi Set up & Configurations	09.06.2021	2	
9	Raspberry Pi GPIOs	10.06.2021	2	Mr. B. VEERASAMY Associate Professor / ECE
10	PWM generation	11.06.2021	2	
11	UART Protocol & Interfacing	12.06.2021	2	Mr. P. SURESH KUMAR Assistant Professor / ECE
12	I2C Protocol Interfacing & Applications	12.06.2021	2	
13	Camera Interfacing & Applications Designing	14.06.2021	2	Mr. B. VEERASAMY Mr. P. SURESH KUMAR
14	Raspberry Pi Webserver & IoT	14.06.2021	2	
15	Real-time Experiments	15.06.2021	2	
Total Hours of the Programme			30	

OUTCOME OF THE PROGRAMME

After completion of the course, the students will be able to

- Understand the working of Arduino and Raspberry Pi, its features and how various components can be used with Pi.
- Create sketches, libraries inside the Arduino Development Environment.
- Measure various physical parameters using sensors.
- Implement various communication protocols for wired and wireless communication.
- Wire raspberry pi and create a fully functional computer.
- Use azure simulator and trace and debug code.
- Measure physical parameter using sensor.
- Interface different sensors.
- Understand practical applications.

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HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY



VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE-641032
DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING



Value Added Programme on Arduino & Raspberry Pi Programming

by



Rijo George
Project Manger

and



Jithu Vijayan
Software Developer

Date: 08/06/2021

Topic: Real-time Experiments using Arduino



Hindusthan College of Engineering & Technology (Autonomous) Coimbatore

Valley Campus, Pollachi Highway, Coimbatore-641032

DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING

Value Added Programme on Arduino & Raspberry Pi Programming

by



SURESH BABU T
DIRECTOR



INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of HRD Initiatives)

DATE: 13/06/2021



Hindusthan

College of Engineering & Technology (Autonomous) Coimbatore

Valley Campus, Pollachi Highway, Coimbatore-641032

DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING

Value Added Programme on Arduino & Raspberry Pi Programming

by



E. VARA PRASAD

EMBEDDED ENGINEER, GEMICATES LABS PRIVATE LIMITED



GEMICATES LABS
PROGRESS THROUGH INNOVATION



INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of HRD Initiative)

DATE: 13/06/2021



HINDUSTHAN

COLLEGE OF ENGINEERING AND TECHNOLOGY (Autonomous)
VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE-641032
DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING



Value Added Programme on Arduino & Raspberry Pi Programming

by



Vasanth M S,

Application Developer, Accenture Solutions Pvt. Ltd.

Date: 11/06/2021 and 12/06/2021

Topic: Raspberry Pi Configurations, webserver and IOT

Valued Added course on Value Added Course - Arduino & Raspberry Pi

Name List

Student Register Number	Student Name	Year of Studying	Department	Section
19106001	ABHINAV BABU	III Year	ECE	A
19106002	ABISHEIK KUMAR R	III Year	ECE	A
19106003	ADITI CHAKRABORTY	III Year	ECE	A
19106004	AJITH S	III Year	ECE	A
19106005	AKASH K	III Year	ECE	A
19106006	AKILESH C	III Year	ECE	A
19106007	ANISHA G	III Year	ECE	A
19106008	ARCHANA B	III Year	ECE	A
19106009	ARISH B	III Year	ECE	A
19106010	ASHIQ AHMED A	III Year	ECE	A
19106011	BAKKAMUNTHALA MAHENDRA	III Year	ECE	A
19106012	BALA MURUGAN S	III Year	ECE	A
19106013	BALAJI M	III Year	ECE	A
19106014	BOJJA SAHITH	III Year	ECE	A
19106015	CHALUVADI SOMANADH	III Year	ECE	A
19106016	CHIDHAMBARASAMY V	III Year	ECE	A
19106017	DANY ROY C	III Year	ECE	A
19106018	DEEKSHITH S	III Year	ECE	A
19106019	DEEPIKA R	III Year	ECE	A
19106020	DEON PRINE D	III Year	ECE	A
19106021	DEVA PRIYAN J	III Year	ECE	A
19106022	DHAYALAN R	III Year	ECE	A
19106023	DHINESHKUMAR G	III Year	ECE	A
19106024	DHINESHKUMAR S	III Year	ECE	A

19106025	DINESH KUMAR M	III Year	ECE	A
19106026	GAJJALA VAMSI	III Year	ECE	A
19106027	GEETHANJALY V	III Year	ECE	A
19106028	GNANAABISHECK G	III Year	ECE	A
19106029	GOBINATH M	III Year	ECE	A
19106030	GOKUL R	III Year	ECE	A
19106031	GOPI ARUN PANDIYAN D	III Year	ECE	A
19106032	GOWSEKAN A P	III Year	ECE	A
19106033	GOWTHAM R	III Year	ECE	A
19106034	GOWTHAM R	III Year	ECE	A
19106035	GOWTHAMEN S	III Year	ECE	A
19106036	GUGANESH M	III Year	ECE	A
19106037	GUNASEKARAPANDIAN K	III Year	ECE	A
19106038	HARI KRISHNAN N	III Year	ECE	A
19106039	HARI VIGNESH S	III Year	ECE	A
19106040	HARINATH A	III Year	ECE	A
19106041	HARISH	III Year	ECE	A
19106042	HARISKUMAR S	III Year	ECE	A
19106043	HARSANPRABU R	III Year	ECE	A
19106044	HITHESWAR M B	III Year	ECE	A
19106045	JAGADEESH K	III Year	ECE	A
19106046	JEEVA N	III Year	ECE	A
19106047	JEEVANANTHAM K	III Year	ECE	A
19106802	GUNASEELAN M	III Year	ECE	A
19106048	JONES STEVE WALKER P	III Year	ECE	B
19106051	KALLEDA MANOJ KUMAR	III Year	ECE	B
19106050	KALAI SELVAN.A	III Year	ECE	B
19106052	KANISHRAM.M	III Year	ECE	B
19106053	KARTHICK BALA K	III Year	ECE	B
19106054	KARTHICK RAJA K	III Year	ECE	B
19106055	KARTHIKEYAN S	III Year	ECE	B
19106056	KARTHIKRAJAN L.S	III Year	ECE	B

19106057	KISHOR R	III Year	ECE	B
19106058	KISHORE S	III Year	ECE	B
19106059	KOTA HARISH SRI RAGHAVENDRA	III Year	ECE	B
19106060	KRISHNAKUMAR R	III Year	ECE	B
19106061	KRISHNA MOORTHY.M	III Year	ECE	B
19106062	KRUTHIK RAJ P	III Year	ECE	B
19106063	LINKESHVARAN R	III Year	ECE	B
19106064	LOGESWARAN R	III Year	ECE	B
19106065	MADHAV KRISHNA S S	III Year	ECE	B
19106066	MADHUVARSHINI S K	III Year	ECE	B
19106067	MAHESHWAR M	III Year	ECE	B
19106068	MANCHALA KOTI VEERA SIVA REDDY	III Year	ECE	B
19106069	MANISH VIGRAM S K	III Year	ECE	B
19106070	MANOJ KUMAR S	III Year	ECE	B
19106071	MARI NEELA PARVATHY S	III Year	ECE	B
19106072	MOHAN RAJU N	III Year	ECE	B
19106073	MONISH K	III Year	ECE	B
19106074	MONISHA R	III Year	ECE	B
19106075	MOURISH MANO RANJAN B	III Year	ECE	B
19106076	MURALI KRISHNAN N	III Year	ECE	B
19106077	NAVEEN R	III Year	ECE	B
19106078	NICKSON ABRAHAM D	III Year	ECE	B
19106079	NISHANTH DANIEL J	III Year	ECE	B
19106080	NIVAS SARAVANA N	III Year	ECE	B
19106081	PALEPU JANAKIRAM	III Year	ECE	B
19106082	PONMALAR S	III Year	ECE	B
19106083	PRASANNA K	III Year	ECE	B
19106084	PRASATH S	III Year	ECE	B
19106085	PRAVEEN D	III Year	ECE	B
19106086	PRAVEEN KUMAAR B	III Year	ECE	B
19106087	RAGUL V	III Year	ECE	B
19106088	RAJALAKSHMI R	III Year	ECE	B

19106089	RAJARAJAN J	III Year	ECE	B
19106090	RAJKUMAR V	III Year	ECE	B
19106091	RAMACHANDRAN M	III Year	ECE	B
19106092	RAMALINGAM G	III Year	ECE	B
19106093	RAMPRASAD S	III Year	ECE	B
19106094	RANJUL R	III Year	ECE	B
19106095	RAYALA VIJAY SAGAR	III Year	ECE	B
19106804	ASWATH P	III Year	ECE	B
19106096	RIFHATH RIZAN MOHAMMED	III Year	ECE	C
19106098	RITHIKVARSHAN S	III Year	ECE	C
19106099	ROHUL SIBI M	III Year	ECE	C
19106100	SAKTHIVEL.M	III Year	ECE	C
19106101	SARVESH V	III Year	ECE	C
19106102	SATHISH S	III Year	ECE	C
19106103	SEENIVASAN S	III Year	ECE	C
19106104	SENTHILPRABHU K	III Year	ECE	C
19106105	SHAHITH S	III Year	ECE	C
19106106	SHARMA O S	III Year	ECE	C
19106107	SHIVANESAN S	III Year	ECE	C
19106108	SHIYAM SUNDAR T	III Year	ECE	C
19106109	SHOBIA D	III Year	ECE	C
19106110	SHRUTHI K	III Year	ECE	C
19106111	SIVASANJEEVI R	III Year	ECE	C
19106112	SNEHA P	III Year	ECE	C
19106113	SOURNAMALYA S B	III Year	ECE	C
19106114	SRIRAM B S	III Year	ECE	C
19106115	SRIRAM V M	III Year	ECE	C
19106116	STEPHEN A	III Year	ECE	C
19106117	SUBAASRI S R	III Year	ECE	C
19106118	SUBHIKSHA S	III Year	ECE	C
19106119	SUDHA S	III Year	ECE	C
19106120	SUNIL KUMAR R	III Year	ECE	C

19106121	SURESH KRISHNA M	III Year	ECE	C
19106122	SUSMITHA S	III Year	ECE	C
19106123	SWVATHALAKA S	III Year	ECE	C
19106124	SYED SHARUKH	III Year	ECE	C
19106125	THANGASUGANTHAN R	III Year	ECE	C
19106126	THILIBAN R	III Year	ECE	C
19106127	THILLAIKARASI R	III Year	ECE	C
19106128	THIRUKUMARAN T	III Year	ECE	C
19106129	VALLURI VENKATA MANJU VARDHAN	III Year	ECE	C
19106130	VENKATESHWARAN M	III Year	ECE	C
19106131	VIJAYSHREERAM S R	III Year	ECE	C
19106132	VIKARAM DAMMU	III Year	ECE	C
19106133	VIKRAM R	III Year	ECE	C
19106134	VINITHRAJ K	III Year	ECE	C
19106135	VINOTHKUMAR R	III Year	ECE	C
19106136	VISHVA D	III Year	ECE	C
19106137	YAMUNA A	III Year	ECE	C
19106138	DHARUN V	III Year	ECE	C
19106139	SHIVA R	III Year	ECE	C
19106140	JEYADHARANI V	III Year	ECE	C
19106807	AKASH R	III Year	ECE	C

Course id (Optional)	Course name	Student Register Number	Student Name	Year of Studying	Department	Section	Photo (Optional)	Academic Year	SEM	Batch	Attendance Percentage	Start Date (DD-MM-YYYY)	End Date (DD-MM-YYYY)
	Arduno and Raspberry Pi	19106001	ABHINAV BABU	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	79	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106002	ABISHEIK KUMAR R	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106003	ADITI CHAKRABORTY	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106004	AJITH S	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	79	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106005	AKASH K	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	79	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106006	AKILESH C	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	79	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106007	ANISHA G	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106008	ARCHANA B	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106009	ARISH B	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	86	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106010	ASHIQ AHMED A	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	86	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106011	BAKKAMUNTHALA MAHENDRA	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	79	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106012	BALA MURUGAN S	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106013	BALAJI M	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106014	BOJJA SAHITH	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106015	CHALUVADI SOMANADH	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106016	CHIDHAMBARASAMY V	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106017	DANY ROY C	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106018	DEEKSHITH S	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	79	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106019	DEEPIKA R	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106020	DEON PRINE D	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	79	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106021	DEVA PRIYAN J	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106022	DHAYALAN R	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106023	DHINESHKUMAR G	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106024	DHINESHKUMAR S	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106025	DINESH KUMAR M	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106026	GAJJALA VAMSI	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106027	GEETHANJALY V	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106028	GNANAABISHECK G	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106029	GOBINATH M	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	79	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106030	GOKUL R	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106031	GOPI ARUN PANDIYAN D	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106032	GOWSEKAN A P	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106033	GOWTHAM R	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106034	GOWTHAM R	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106035	GOWTHAMEN S	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106036	GUGANESH M	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106037	GUNASEKARAPANDIAN K	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	79	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106038	HARI KRISHNAN N	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	79	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106039	HARI VIGNESH S	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106040	HARINATH A	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	79	01.06.2021	15.06.2021

Arduno and Raspberry Pi	19106041	HARISH	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106042	HARISKUMAR S	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106043	HARSANPRABU R	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106044	HITHESWAR M B	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106045	JAGADEESH K	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106046	JEEVA N	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	86	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106047	JEEVANANTHAM K	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	86	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106802	GUNASEELAN M	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	79	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106048	JONES STEVE WALKER P	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	79	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106051	KALLEDA MANOJ KUMAR	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	86	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106050	KALAI SELVAN.A	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106052	KANISHRAM.M	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106053	KARTHICK BALA K	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	86	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106054	KARTHICK RAJA K	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106055	KARTHIKEYAN S	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106056	KARTHIKRAJAN L.S	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	86	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106057	KISHOR R	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	79	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106058	KISHORE S	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	86	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106059	KOTA HARISH SRI RAGHAVENDRA	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106060	KRISHNAKUMAR R	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106061	KRISHNA MOORTHY.M	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	79	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106062	KRUTHIK RAJ P	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106063	LINKESHVARAN R	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106064	LOGESWARAN R	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	86	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106065	MADHAV KRISHNA S S	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106066	MADHUVARSHINI S K	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	86	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106067	MAHESHWAR M	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	79	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106068	MANCHALA KOTI VEERA SIVA REDDY	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106069	MANISH VIGRAM S K	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106070	MANOJ KUMAR S	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	86	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106071	MARI NEELA PARVATHY S	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106072	MOHAN RAJU N	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106073	MONISH K	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106074	MONISHA R	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106075	MOURISH MANO RANJAN B	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106076	MURALI KRISHNAN N	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106077	NAVEEN R	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106078	NICKSON ABRAHAM D	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106079	NISHANTH DANIEL J	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106080	NIVAS SARAVANA N	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106081	PALEPU JANAKIRAM	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106082	PONMALAR S	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021

Arduno and Raspberry Pi	19106083	PRASANNA K	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106084	PRASATH S	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	80	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106085	PRAVEEN D	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106086	PRAVEEN KUMAAR B	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	80	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106087	RAGUL V	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	80	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106088	RAJALAKSHMI R	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106089	RAJARAJAN J	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106090	RAJKUMAR V	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106091	RAMACHANDRAN M	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106092	RAMALINGAM G	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106093	RAMPRASAD S	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106094	RANJUL R	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	80	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106095	RAYALA VIJAY SAGAR	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	80	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106804	ASWATH P	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106096	RIFHATH RIZAN MOHAMMED RABEEK	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106098	RITHIKVARSHAN S	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106099	ROHUL SIBI M	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106100	SAKTHIVEL.M	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106101	SARVESH V	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	80	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106102	SATHISH S	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	80	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106103	SEENIVASAN S	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106104	SENTHILPRABHU K	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106105	SHAHITH S	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	80	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106106	SHARMA O S	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	80	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106107	SHIVANESAN S	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	80	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106108	SHIYAM SUNDAR T	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	80	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106109	SHOBIA D	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	87	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106110	SHRUTHI K	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106111	SIVASANJEEVI R	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	80	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106112	SNEHA P	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106113	SOURNAMALYA S B	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106114	SRIRAM B S	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106115	SRIRAM V M	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	80	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106116	STEPHEN A	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	87	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106117	SUBAASRI S R	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106118	SUBHIKSHA S	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106119	SUDHA S	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106120	SUNIL KUMAR R	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106121	SURESH KRISHNA M	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106122	SUSMITHA S	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	80	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106123	SWVATHALAKA S	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106124	SYED SHARUKH	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021

	Arduno and Raspberry Pi	19106125	THANGASUGANTHAN R	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	80	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106126	THILIBAN R	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106127	THILLAIKARASI R	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106128	THIRUKUMARAN T	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	80	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106129	VALLURI VENKATA MANJU VARDHAN	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106130	VENKATESHWARAN M	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	80	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106131	VIJAYSHREERAM S R	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	80	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106132	VIKARAM DAMMU	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	80	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106133	VIKRAM R	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106134	VINITHRAJ K	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	80	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106135	VINOTHKUMAR R	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106136	VISHVA D	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	80	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106137	YAMUNA A	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106138	DHARUN V	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106139	SHIVA R	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	80	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106140	JEYADHARANI V	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106807	AKASH R	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	80	01.06.2021	15.06.2021

Course id (Optional)	Course name	Student Register Number	Student Name	Year of Studying	Department	Section	Photo (Optional)	Academic Year	SEM	Batch	Attendance Percentage	Start Date (DD-MM-YYYY)	End Date (DD-MM-YYYY)
	Arduno and Raspberry Pi	19106001	ABHINAV BABU	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	79	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106002	ABISHEIK KUMAR R	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106003	ADITI CHAKRABORTY	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106004	AJITH S	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	79	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106005	AKASH K	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	79	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106006	AKILESH C	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	79	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106007	ANISHA G	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106008	ARCHANA B	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106009	ARISH B	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	86	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106010	ASHIQ AHMED A	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	86	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106011	BAKKAMUNTHALA MAHENDRA	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	79	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106012	BALA MURUGAN S	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106013	BALAJI M	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106014	BOJJA SAHITH	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106015	CHALUVADI SOMANADH	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106016	CHIDHAMBARASAMY V	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106017	DANY ROY C	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106018	DEEKSHITH S	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	79	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106019	DEEPIKA R	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106020	DEON PRINE D	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	79	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106021	DEVA PRIYAN J	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106022	DHAYALAN R	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106023	DHINESHKUMAR G	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106024	DHINESHKUMAR S	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106025	DINESH KUMAR M	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106026	GAJJALA VAMSI	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106027	GEETHANJALY V	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106028	GNANAABISHECK G	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106029	GOBINATH M	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	79	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106030	GOKUL R	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106031	GOPI ARUN PANDIYAN D	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106032	GOWSEKAN A P	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106033	GOWTHAM R	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106034	GOWTHAM R	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106035	GOWTHAMEN S	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106036	GUGANESH M	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106037	GUNASEKARAPANDIAN K	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	79	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106038	HARI KRISHNAN N	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	79	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106039	HARI VIGNESH S	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
	Arduno and Raspberry Pi	19106040	HARINATH A	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	79	01.06.2021	15.06.2021

Arduno and Raspberry Pi	19106041	HARISH	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106042	HARISKUMAR S	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106043	HARSANPRABU R	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106044	HITHESWAR M B	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106045	JAGADEESH K	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106046	JEEVA N	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	86	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106047	JEEVANANTHAM K	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	86	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106802	GUNASEELAN M	III Year	ECE	A		2020 - 2021	ODD	2019 - 2023	79	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106048	JONES STEVE WALKER P	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	79	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106051	KALLEDA MANOJ KUMAR	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	86	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106050	KALAI SELVAN.A	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106052	KANISHRAM.M	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106053	KARTHICK BALA K	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	86	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106054	KARTHICK RAJA K	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106055	KARTHIKEYAN S	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106056	KARTHIKRAJAN L.S	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	86	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106057	KISHOR R	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	79	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106058	KISHORE S	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	86	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106059	KOTA HARISH SRI RAGHAVENDRA	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106060	KRISHNAKUMAR R	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106061	KRISHNA MOORTHY.M	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	79	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106062	KRUTHIK RAJ P	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106063	LINKESHVARAN R	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106064	LOGESWARAN R	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	86	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106065	MADHAV KRISHNA S S	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106066	MADHUVARSHINI S K	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	86	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106067	MAHESHWAR M	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	79	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106068	MANCHALA KOTI VEERA SIVA REDDY	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106069	MANISH VIGRAM S K	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106070	MANOJ KUMAR S	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	86	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106071	MARI NEELA PARVATHY S	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106072	MOHAN RAJU N	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106073	MONISH K	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106074	MONISHA R	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106075	MOURISH MANO RANJAN B	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106076	MURALI KRISHNAN N	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106077	NAVEEN R	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106078	NICKSON ABRAHAM D	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106079	NISHANTH DANIEL J	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106080	NIVAS SARAVANA N	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106081	PALEPU JANAKIRAM	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106082	PONMALAR S	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021

Arduno and Raspberry Pi	19106083	PRASANNA K	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106084	PRASATH S	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	80	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106085	PRAVEEN D	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106086	PRAVEEN KUMAAR B	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	80	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106087	RAGUL V	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	80	01.06.2021	15.06.2021
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Arduno and Raspberry Pi	19106089	RAJARAJAN J	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106090	RAJKUMAR V	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106091	RAMACHANDRAN M	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106092	RAMALINGAM G	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106093	RAMPRASAD S	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106094	RANJUL R	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	80	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106095	RAYALA VIJAY SAGAR	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	80	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106804	ASWATH P	III Year	ECE	B		2020 - 2021	ODD	2019 - 2023	93	01.06.2021	15.06.2021
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Arduno and Raspberry Pi	19106098	RITHIKVARSHAN S	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
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Arduno and Raspberry Pi	19106100	SAKTHIVEL.M	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	100	01.06.2021	15.06.2021
Arduno and Raspberry Pi	19106101	SARVESH V	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	80	01.06.2021	15.06.2021
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Arduno and Raspberry Pi	19106105	SHAHITH S	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	80	01.06.2021	15.06.2021
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Arduno and Raspberry Pi	19106111	SIVASANJEEVI R	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	80	01.06.2021	15.06.2021
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	Arduno and Raspberry Pi	19106131	VIJAYSHREERAM S R	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	80	01.06.2021	15.06.2021
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	Arduno and Raspberry Pi	19106134	VINITHRAJ K	III Year	ECE	C		2020 - 2021	ODD	2019 - 2023	80	01.06.2021	15.06.2021
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Analog Input from a Potentiometer

A potentiometer is an adjustable voltage divider that can be used as a method of user input to an Arduino program. The left side of Figure 1 is a photograph of a typical potentiometer with pins that fit into a breadboard. The right side of Figure 1 is a schematic representation of the potentiometer.

A potentiometer has three external electrical contacts. By turning the knob, the electrical resistance between the middle contact and the two external contacts is adjusted. The change in resistance allows the potentiometer to function as a variable voltage divider as depicted by the schematic in the right side of Figure 1. The resistance between terminals A and B is fixed. In the typical potentiometer circuit, a supply (or input) voltage is applied across terminals A and B. The output voltage is measured between terminals W and B or terminals W and A.



Figure 1: A typical rotary potentiometer (left). Schematic for a potentiometer (right). The middle pin is called the “wiper”.

Figure 2 is a schematic of a potentiometer that can supply a variable voltage to an analog input pin of an Arduino. Corresponding to Figure 1, terminal A is connected to a 5V supply and terminal B is connected to ground. The wiper is connected to an analog input pin. Figure 3 is a physical representation of the wiring with the wiper of the potentiometer connected to analog input pin A2 of an Arduino.

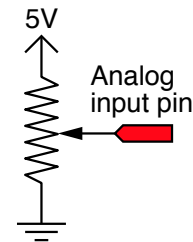


Figure 2: Potentiometer connected to an Arduino analog input pin.

The `potentiometer_input.ino` program in Listing 1 reads and prints the voltage between the wiper and ground for a potentiometer wired as in Figure 3. The value in `potReading` will be an integer between 0 and 1023. To convert to voltage, multiply the reading by $5/1023$.

Note that in the Arduino program, the conversion factor is written $5.0/1023.0$ to force a floating point division. If the conversion factor was written $5/1023$, the compiler would perform an integer division resulting in zero, and the value of `potVoltage` would be 0.0, regardless of the value of `potReading`.

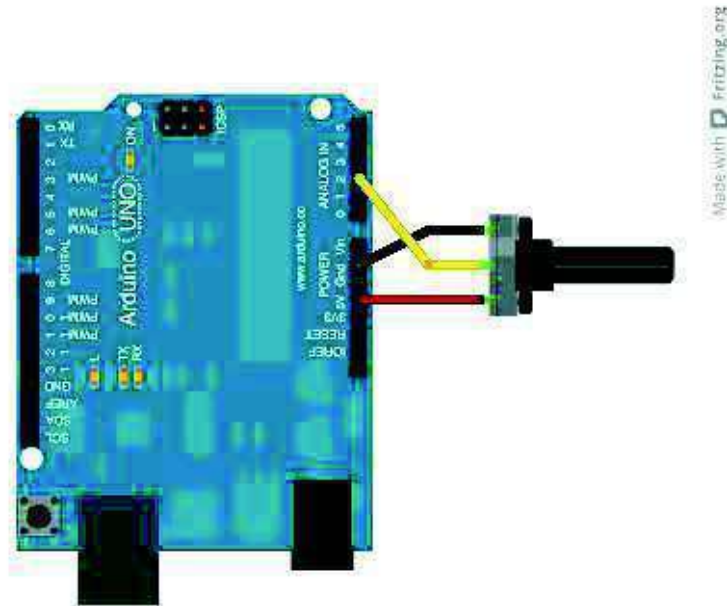


Figure 3: Arduino wiring of a potentiometer circuit for analog input on pin A2.

```
// File: potentiometer_input.ino
//
// Read a potentiometer and print the raw analog input value
// and the voltage

void setup()
{
  Serial.begin(9600);
}

void loop()
{
  int    potPin=A2, potReading;
  float  potVoltage;

  potVal = analogRead( potPin );
  potVoltage = potVal*5.0/1023.0;

  Serial.print( potVal );
  Serial.print(" ");
  Serial.println(potVoltage)
}

```

Listing 1: Arduino program to read and display voltage across a potentiometer with the wiper connected to analog input pin A2.

Scaling of Arduino Analog Input Readings

On a 10-bit scale there are 1024 numbers starting with 0 and ending with 1023.

Question: To convert a numerical value returned by the `analogRead` function to a voltage, should the scaling be $5\text{V}/1023$ or $5\text{V}/1024$?

Answer: The correct scaling is $5\text{V}/1023$.

The Arduino Uno can read voltages on one of six analog input pins, which can be referenced by the built-in labels A0, A1, . . . , A5¹. The maximum input voltage is 5V, and the analog input readings are returned by `analogInput` as integer values with a 10-bit resolution. The maximum numerical value for a (unsigned) 10-bit number is 1023. Therefore, when the maximum input of 5 V is applied to one of the input pins, the maximum numerical value for an analog reading is 1023. This idea is explored further in the Appendix on page 5.

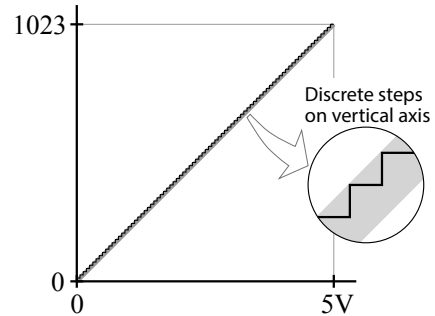


Figure 4: Scale 5V into 10-bit values.

Analog to Digital Conversion

The relationship between a 5V input range and the 10-bit values returned by `analogInput` can be visualized with the plot in Figure 4. The nominal relationship is a line from (0,0) to (5,1023). However, as depicted by the inset in Figure 4, the input value is a continuous voltage and the output values are limited to one of 1024 discrete values.

The `analogRead` function is a handy interface to the *analog-to-digital* or ADC conversion process that happens in the Arduino microcontroller. The general topic of ADC is deep and fascinating, but we will only briefly discuss *resolution* as the most salient characteristic.

The resolution of an ADC process is the smallest voltage interval that can be distinguished on the output scale of the converter. For a maximum output range of 5V, the 10-bit output scale for `analogRead` on an Arduino UNO discrete (integer) scale has a resolution of

$$\frac{5\text{ V}}{1024\text{ values}} = 4.8 \times 10^{-3}\text{ V}$$

per unit value of output from `analogRead`. In general, the resolution, δV , of an n -bit ADC is

$$\delta V = \frac{V_{\max}}{2^n}$$

where V_{\max} is the maximum voltage accepted by the electronics in the ADC. Table 1 provides a sample of ADC resolutions.

Table 1: ADC resolution as a function of n , the number of bits in the conversion.

n	δV (mV)
10	4.9
12	1.2
14	0.31
16	0.076
18	0.019

¹On an Arduino UNO the input pins can also be referenced by the integers 0, 1, . . . 5. On other microcontrollers, the analog input pins may have different numerical values. The built-in labels A0, A1, etc. provide a convenient way of writing code that will work on a variety of microcontrollers.

Exercises

Conceptual Exercises

1. In many example Arduino programs, analog readings are made with statements like `x = analogRead(A0)`, `x = analogRead(A1)`, `x = analogRead(A2)`, What are A0, A1, A2, etc.? Should users define A0, A1, A2, etc. as global variables?
2. In the example program in Listing 1, why are `potPin`, `potReading` and `potVoltage` not defined as global variables?
3. The maximum safe voltage for an input signal on any analog input pin is 5V. How does the design of the circuit in Figure 3 guarantee that the 5V limit will not be exceeded?
Note: Many new microcontrollers are limited to 3.3V.
4. Some microcontrollers have 12-bit analog input resolution. What is the appropriate scaling between the analog reading and voltage for a 12-bit analog input?

Coding Exercises

Write Arduino sketches to perform the following actions. These problems build upon each other so chunks of the code can be reused. Save your solution to each problem as a separate sketch. Figure 5 has schematics of the circuits used in the programming exercises.

5. Read a photoresistor and print the raw (10-bit) reading to the Serial Monitor.
6. Read a photoresistor and turn on an LED when it is “dark”.
7. Read a potentiometer and turn on an LED when the voltage is less than 1.0V and greater than 4.0V.

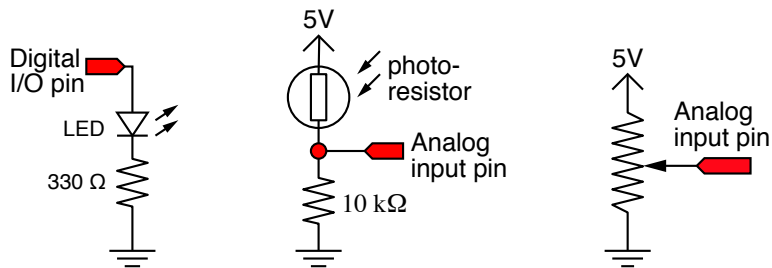


Figure 5: Circuits used for demonstration of `analogInput`.

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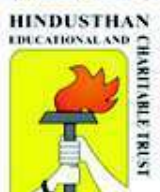
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6/17/2021 7:50:55	Chaluvadisomanadh	19106015	ECE A	5	Yes
6/17/2021 16:08:34	Chidhambarasamy V	19106016	ECE A	5	Yes
6/17/2021 22:15:25	Deekshith S	19106018	ECE A	5	Yes
6/17/2021 19:21:22	Deepika.R	19106019	ECE A	4	Yes
6/17/2021 19:32:48	Dhineshkumar.G	19106023	ECE A	5	Yes
6/17/2021 19:45:12	dinesh kumar M	19106025	ECE A	5	Yes
6/17/2021 16:08:09	Gajjala Vamsi	19106026	ECE A	5	Yes
6/17/2021 23:39:52	GEETHANJALY V	19106027	ECE A	5	Yes
6/17/2021 19:05:31	Gnanaabisheck.G	19106028	ECE A	4	Yes
6/17/2021 22:02:59	Gobinath M	19106029	ECE A	5	Yes
6/30/2021 12:44:46	Gowsekan	19106032	ECE A	5	Yes
6/17/2021 19:54:20	Gowtham. R	19106033	ECE A	5	Yes
6/17/2021 16:44:23	GOWTHAMEN SEENIV,	19106035	ECE A	5	Yes
6/17/2021 20:19:47	Guganesh M	19106036	ECE A	5	Yes
6/17/2021 23:20:14	Hari Krishnan	19106038	ECE A	5	Yes
6/17/2021 18:55:46	S.Hari Vignesh	19106039	ECE A	5	Yes
6/17/2021 20:56:04	Harsanprabu R	19106043	ECE A	5	Yes
6/17/2021 20:35:54	Hitheswar.MB	19106044	ECE A	5	Yes
6/17/2021 18:54:19	Jagadeesh K	19106045	ECE A	5	Yes
6/17/2021 20:03:33	Jeevanantham K	19106047	ECE A	5	Yes
6/17/2021 18:19:55	Jones steve walker	19106048	ECE B	5	Yes
6/17/2021 21:17:38	KALLEDA MANOJ KUM	19106051	ECE B	5	Yes
6/30/2021 10:17:54	M.KANISHRAM	19106052	ECE B	5	Yes
6/17/2021 19:21:33	Karthickraja k	19106054	ECE B	5	Yes
6/17/2021 18:38:00	Kishore .s	19106058	ECE B	5	Yes
6/17/2021 19:01:26	Kota Harish Sri Raghav	19106059	ECE B	5	Yes
6/17/2021 18:20:39	KRISHNAKUMAR R	19106060	ECE B	5	Yes
6/17/2021 20:17:13	MADHUVARSHINI.S.K	19106066	ECE B	5	Yes
6/17/2021 19:03:14	Maheshwar M	19106067	ECE B	4	Yes
6/17/2021 18:41:31	S K MANISH VIGRAM	19106069	ECE B	5	Yes
6/17/2021 21:25:37	Mari Neela Parvathy S	19106071	ECE B	5	Yes
6/17/2021 19:01:25	N Mohan Raju	19106072	ECE B	5	Yes
6/17/2021 21:32:47	Monish	19106073	ECE B	5	Yes
6/17/2021 22:26:46	Monisha.R	19106074	ECE B	5	Yes
6/17/2021 20:40:53	Mourish Mano Ranjan B	19106075	ECE B	5	Yes
6/17/2021 19:12:59	Muralikrishnan N	19106076	ECE B	5	Yes
6/17/2021 20:47:51	Naveen	19106077	ECE B	5	Yes
6/17/2021 21:39:22	Nickson Abraham	19106078	ECE B	4	Yes
6/17/2021 19:11:28	NIVAS SARAVANA N	19106080	ECE B	5	Yes
6/17/2021 22:26:35	Praveen Kumar B	19106086	ECE B	5	Yes
6/17/2021 20:55:49	Rajalakshmi.R	19106088	ECE B	5	Yes

6/17/2021 21:24:32	V.Raj jumar	19106090	ECE B	5	Yes
6/17/2021 19:09:08	RAMPRASAD S	19106093	ECE B	5	Yes
6/17/2021 18:42:36	Ranjul.R	19106094	ECE B	4	Yes
6/17/2021 16:01:32	Rifhath Rizan	19106096	ECE C	5	Yes
6/17/2021 19:17:21	S.Rithikvarshan	19106098	ECE C	5	Yes
6/17/2021 16:21:49	Rohul sibi	19106099	ECE C	5	Yes
6/17/2021 18:10:22	Shruthi K	19106099	ECE C	5	Yes
7/2/2021 11:21:30	Rohul Sibi	19106099	ECE C	5	Yes
6/30/2021 9:07:19	Sathish s	19106102	ECE C	5	Yes
6/17/2021 19:12:19	Seenivasan	19106103	ECE C	5	Yes
6/17/2021 21:10:06	Senthilprabhu.K	19106104	ECE C	5	Yes
6/17/2021 19:06:28	Shahith	19106105	ECE C	5	Yes
6/17/2021 19:09:01	Shivanesan	19106107	ECE C	5	Yes
6/17/2021 19:10:41	Shruthi k	19106110	ECE C	5	Yes
7/2/2021 11:27:13	Shruthi.k	19106110	ECE B, ECE C	5	Yes
6/17/2021 19:07:36	Siva sanjeevi R	19106111	ECE C	5	Yes
6/17/2021 18:21:50	Sneha.P	19106112	ECE C	5	Yes
6/17/2021 20:24:23	B.S.SRIRAM	19106114	ECE C	5	Yes
6/17/2021 19:38:50	Sriram V M	19106115	ECE C	5	Yes
6/17/2021 22:27:29	Stephen A	19106116	ECE C	5	Yes
6/17/2021 19:14:54	Subhiksha. S	19106118	ECE C	5	Yes
6/17/2021 18:47:04	Sudha. S	19106119	ECE C	5	Yes
6/17/2021 20:18:55	M. Suresh Krishna	19106121	ECE C	5	Yes
6/17/2021 18:07:47	Swathalaka	19106123	ECE C	4	Yes
6/17/2021 16:13:30	Syed Sharukh	19106124	ECE C	5	Yes
6/17/2021 16:35:30	Thiliban R	19106126	ECE C	5	Yes
6/17/2021 19:03:02	Thillaikarasi R	19106127	ECE C	5	Yes
6/17/2021 19:32:23	T.Thirukumaran	19106128	ECE C	5	Yes
6/17/2021 19:22:55	VALLURI VENKATA MA	19106129	ECE C	5	Yes
6/30/2021 9:05:52	Venkateshwaran	19106130	ECE C	5	Yes
6/17/2021 19:15:24	Vikram.R	19106133	ECE C	5	Yes
6/17/2021 19:07:47	Vinothkumar R	19106135	ECE C	5	Yes
6/17/2021 19:10:28	Yamuna.A	19106137	ECE C	5	Yes
6/17/2021 19:37:41	Dharun V	19106138	ECE C	5	Yes
6/17/2021 19:16:23	AKASH R	19106807	ECE C	5	Yes
6/17/2021 15:24:56	Alan Jose	19109007	MCT A	5	Yes
6/17/2021 20:49:16	Alvin Joy	19109008	MCT A	5	Yes
6/17/2021 15:56:42	Aswin.S	19109010	MCT A	5	Yes
6/17/2021 20:16:32	Bharanivasan D	19109012	MCT A	5	Yes
6/17/2021 15:29:11	Britto.A	19109013	MCT A	5	Yes
6/30/2021 12:44:27	Cerin joseph shaji	19109014	MCT A	5	Yes
6/17/2021 16:08:48	Delwin Davis	19109016	MCT A	4	Yes
6/17/2021 22:00:15	Dhanif basheer	19109017	MCT A	4	Yes
6/17/2021 15:23:26	Diwagar	19109018	MCT A	5	Yes
6/17/2021 22:02:02	Joel s	19109022	MCT A	5	Yes
6/17/2021 15:32:05	Kathiravan	19109024	MCT A	5	Yes
6/17/2021 20:40:08	T KAVIYARASU	19109025	MCT A	5	Yes
6/17/2021 22:39:33	Niyas J	19109041	MCT B	5	Yes
7/1/2021 11:03:59	T.V.PANCHATCHARAM	19109042	MCT B	5	Yes
6/17/2021 16:22:33	PAVAN P SAJI	19109043	MCT B	5	Yes
6/17/2021 20:59:42	K. P. Prithvi	19109044	MCT B	4	Yes
6/17/2021 15:30:26	Sathish kumar	19109050	MCT B	5	Yes
6/30/2021 10:34:15	Sudharsan	19109055	MCT B	5	Yes
6/17/2021 15:25:11	Surendhar.R	19109056	MCT B	5	Yes
6/17/2021 15:46:29	TINNA.D	19109059	MCT B	5	Yes

6/17/2021 23:09:39	Vigneshwaran A	19109063	MCT B	5	Yes
6/17/2021 20:01:28	Vijayan P	19109064	MCT B	5	Yes
6/17/2021 15:51:33	Vineed Kumar K	19109065	MCT B	5	Yes
6/17/2021 15:34:16	Aravind.s	19109802	MCT B	5	Yes
6/17/2021 15:27:09	Sentoor kumar PM	19109810	MCT B	5	Yes
6/17/2021 15:28:58	Sivapathasekaran	19109811	MCT B	5	Yes
6/17/2021 21:32:50	Karthikeyan s	191006055	ECE B	5	Yes
6/17/2021 19:53:51	Shruthi k	191060110	ECE C	4	Yes
6/17/2021 21:20:57	Nishanth	09807@hicut.a	MCT B	5	Yes

**Electrical and Electronics Engineering
Department**



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COIMBATORE - 641 032

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

VALUE ADDED COURSE - **Circular**

24.07.2020

Submitted to the Dean/Academics:

I wish to inform you that, herewith the Department of EEE submits a proposal to conduct a Value added Course for the THIRD year / V semester students for the AY 2020-21.

Due to the COVID restrictions, Department Advisory Committee (DAC) has decided to conduct the VAC training in an ONLINE MODE.

Course Name : **“LabVIEW Programming: Core I & Core II”**
Class & Semester : **Third Year EEE & FIFTH Semester**
Batch : **2018 - 2022**
Total No. of students : **83**
Mode of Conduction : **Online Google Meet**
Dates of Training : **03-08-2020 to 07-08-2020**

Recommendations:

Based on the DAC recommendations, it is to be conducted by HiCET LabVIEW Academy trainers in our campus. Same type of VAC had been conducted for last time and the said trainers enhancing practical knowledge to our students in LabVIEW Programming.

HoD/EEE

DEAN ACADEMICS

Enclosure:

1. Schedule/ Planner for VAC on LabVIEW Programming Core 1 & Core 2
2. The HiCET LabVIEW Academy trainers - CLAD Certificates.



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

VALUE ADDED COURSE - Schedule

Academic Year : 2020-2021

Batch : 2018-2022

“ LabVIEW Programming: Core I & Core II”

03-08-2020 to 07-08-2020

Course Co-ordinators :

Prof. VINOTH KUMAR R, AP/EIE

Prof. KHAJA NAJUMUDEEN A, AP/EEE

Prof. MUTHURAM G, AP/EEE

S. No	DATE	TOPICS TO BE COVERED	
		FORE NOON 09:30 AM to 12:30 NOON [3 Hours]	AFTERNOON 02:00 PM to 05:00 PM [3 Hours]
1.	03.08.2020 Monday	LabVIEW Environment – Introduction Data Types & Array and Clusters	Industrial Applications in LabVIEW Environment
2.	04.08.2020 Tuesday	Graphs and Charts Case and Sequence Structures	Common Tools in LabVIEW & Graphical Programming
3.	05.08.2020 Wednesday	FOR loop - While Loop, Sub VI Event Structure	Industrial Applications in LabVIEW Environment
4.	06.08.2020 Thursday	Debugging Tools in LabVIEW File I/O Function, State Machine Architecture	Data Structures & Execution Structures in LabVIEW
5.	07.08.2020 Friday	Passing Data Between Loop Iterations in LabVIEW	Handling Errors in LabVIEW Industrial Applications in LabVIEW Environment

Dr. N P ANANTHAMOORTHY,
HoD/EEE.

HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY			
(Autonomous)			
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING			
PARTICIPANT'S NAME LIST			
BATCH	2018-2022	<i>Value Added Course on</i> <i>"LabVIEW Programming: Core I & Core II"</i>	ACADEMIC YEAR
Class	III EEE A & B	03-08-2020 TO 07-08-2020	2020-2021
Sl. No	Register No.	Name	
1	18105001	ABISHEK K	
2	18105002	AJITH N	
3	18105003	ARSHATH IBRAHIM A	
4	18105004	ARUN BALAJI M	
5	18105005	ASHFAK AHAMED K A	
6	18105006	BABU S	
7	18105007	BHARATH M	
8	18105008	DEEPAK S	
9	18105009	DEVAKUMAR S	
10	18105010	DINESH M	
11	18105011	DINO PRABU.T	
12	18105012	ELAVARASAN N	
13	18105014	GIRIDHARAN S	
14	18105015	GIRISHENBAGARAJ P	
15	18105016	GOKULRAJ D	
16	18105017	GOPINATH D	
17	18105018	GOVARTHAN P	
18	18105019	GOWTHAM L	
19	18105020	KALYANASUNDARAM N	
20	18105021	KARTHICK M	
21	18105022	KARTHICK M	
22	18105023	KARTHIK RAJA B	
23	18105024	KARUNAS .M	
24	18105025	KAVIYARASAN G	
25	18105026	KIRUBA SHANKAR T	
26	18105027	KIRUBAKARAN K	
27	18105028	KISHORE KUMAR A	
28	18105029	KISHOREKUMAR M	
29	18105030	KRISHNA VEL J	
30	18105031	MADHUSRI M	
31	18105032	MATHEW K	
32	18105033	MUGILAN S	
33	18105034	MUTHARASU P	
34	18105035	RAJA SURIYA R	
35	18105036	NANDHINI S	

Sl. No	Register No.	Name	
36	18105037	NAVENKUMAR D	
37	18105038	NILESH B	
38	18105039	NITHEESH KUMAR P	
39	18105040	NIVYA M	
40	18105041	PRABHA MATHAN M	
41	18105042	PRAKASH S	
42	18105043	PRASAD JAIRAM.S	
43	18105044	PRASANTH R	
44	18105045	RAJA RAM R	
45	18105046	RAKESH R	
46	18105047	RAMAJEYAM R	
47	18105048	RANJITHKUMAR.P	
48	18105050	SANJAY. K	
49	18105051	SANJAY P	
50	18105052	SANTHOSH KUMAR S	
51	18105053	SATHISHKUMAR P	
52	18105054	SELVAKUMAR.RV	
53	18105055	SHEIK MANIKANDAN G	
54	18105056	SIVARAMA SUBRAMANIAN R	
55	18105057	SIVASHANKAR M	
56	18105058	SRI DEEPAK V	
57	18105059	SRI SURYA S	
58	18105060	SRIDHAR S	
59	18105061	SUBASH R	
60	18105064	THAMOTHARAKANNAN M	
61	18105065	VINOTH R	
62	18105601	SATHISHKUMAR V	
63	18105801	ABRAR AHAMED M	
64	18105802	AJUL SREEDHARAN	
65	18105803	ALDRIN SAMUEL A	
66	18105804	ANBUNESAMANI C	
67	18105805	BABU K	
68	18105806	BHARATH A	
69	18105807	BHUJANDA RAJA M	
70	18105808	DHINESH KUMAR C	
71	18105809	GOPALAKRISHNAN D	
72	18105810	LAKSHMI NARAYANAN V	
73	18105811	MADHANKUMAR P	
74	18105812	MIDHUN MURALI	
75	18105813	MOHAMED RILWAN N S	
76	18105814	MUTHAMIZHIL M	
77	18105815	PURUSOTHAMAN M	

Sl. No	Register No.	Name	
78	18105816	RAAMJAI P	
79	18105817	RAGUL PRASATH	
80	18105818	SIVA PRABHAKARAN P	
81	18105819	SRI BARANI V	
82	18105820	TAMIL MANI E	
83	18105821	VIJAY KANDHSAMY P	
Number of BOYS			80
Number of GIRLS			03
Total Number of PARTICPANT's			83



HEAD OF THE DEPARTMENT

36	18105037	NAVENKUMAR D	AB	AB	/	/	/	/	/	/	/	/
37	18105038	NILESH B	/	/	/	/	/	/	/	/	/	/
38	18105039	NITHEESH KUMAR P	/	/	/	/	/	/	/	/	/	/
39	18105040	NIVYA M	/	/	/	/	/	/	/	/	/	/
40	18105041	PRABHA MATHAN M	/	/	/	/	/	/	/	/	/	/
41	18105042	PRAKASH S	/	/	/	/	/	/	/	/	/	/
42	18105043	PRASAD JAIRAM.S	/	/	/	/	/	/	/	/	AB	AB
43	18105044	PRASANTH R	/	/	/	/	/	/	/	/	/	/
44	18105045	RAJA RAM R	/	/	/	/	/	/	/	/	/	/
45	18105046	RAKESH R	/	/	/	/	/	/	/	/	/	/
46	18105047	RAMAJEYAM R	/	/	/	/	/	/	/	/	/	/
47	18105048	RANJITHKUMAR.P	/	/	/	/	/	/	/	/	/	/
48	18105050	SANJAY. K	/	/	/	/	/	/	/	/	/	/
49	18105051	SANJAY P	/	/	AB	AB	/	/	/	/	/	/
50	18105052	SANTHOSH KUMAR S	/	/	/	/	/	/	/	/	/	/
51	18105053	SATHISHKUMAR P	/	/	/	/	/	/	/	/	/	/
52	18105054	SELVAKUMAR.RV	/	/	/	/	/	/	/	/	/	/
53	18105055	SHEIK MANIKANDAN G	/	/	/	/	/	/	/	/	/	/
54	18105056	SIVARAMA SUBRAMANIAN R	/	/	/	/	/	/	/	/	/	/
55	18105057	SIVASHANKAR M	/	/	/	/	/	/	/	/	/	/
56	18105058	SRI DEEPAK V	/	/	/	/	/	/	/	/	/	/
57	18105059	SRI SURYA S	/	/	/	/	/	/	/	/	/	/
58	18105060	SRIDHAR S	/	/	/	/	/	/	/	/	/	/
59	18105061	SUBASH R	/	/	/	/	/	/	/	/	/	/
60	18105064	THAMOTHARAKANNAN M	/	/	/	/	/	/	/	/	/	/
61	18105065	VINOTH R	/	/	/	/	/	/	/	/	/	/
62	18105601	SATHISHKUMAR V	/	/	AB	AB	/	/	/	/	/	/
63	18105801	ABRAR AHAMED M	AB	AB	/	/	/	/	/	/	/	/
64	18105802	AJUL SREEDHARAN	/	/	/	/	/	/	/	/	/	/
65	18105803	ALDRIN SAMUEL A	/	/	/	/	/	/	/	/	/	/
66	18105804	ANBUNESAMANI C	/	/	/	/	/	/	/	/	/	/
67	18105805	BABU K	/	/	/	/	/	/	/	/	/	/
68	18105806	BHARATH A	/	/	/	/	/	/	/	/	/	/
69	18105807	BHUJANDA RAJA M	/	/	/	/	/	/	AB	AB	/	/
70	18105808	DHINESH KUMAR C	/	/	/	/	/	/	/	/	/	/
71	18105809	GOPALAKRISHNAN D	/	/	/	/	/	/	/	/	/	/
72	18105810	LAKSHMI NARAYANAN V	/	/	/	/	/	/	/	/	/	/
73	18105811	MADHANKUMAR P	/	/	/	/	/	/	/	/	/	/
74	18105812	MIDHUN MURALI	/	/	/	/	/	/	/	/	/	/
75	18105813	MOHAMED RILWAN N S	/	/	/	/	/	/	/	/	/	/
76	18105814	MUTHAMIZHIL M	/	/	/	/	/	/	/	/	/	/
77	18105815	PURUSOTHAMAN M	/	/	/	/	/	/	/	/	/	/
78	18105816	RAAMJAI P	/	/	/	/	/	/	AB	AB	/	/

79	18105817	RAGUL PRASATH	/	/	/	/	/	/	/	/	/	/
80	18105818	SIVA PRABHAKARAN P	/	/	AB	AB	/	/	/	/	/	/
81	18105819	SRI BARANI V	/	/	/	/	/	/	/	/	/	/
82	18105820	TAMIL MANI E	/	/	/	/	/	/	/	/	/	/
83	18105821	VIJAY KANDHSAMY P	/	/	/	/	/	/	/	/	/	/
Number of students Absent			02	02	04	04	01	01	04	04	01	01



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You're presenting to everyone

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People

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In call

- D.MUTHURAM HCET... (You) Making host
- D.MUTHURAM HCET STAR... Your presentation
- W106007 HCET - STUDENT...
- W106010 HCET - STUDENT...
- W106014 HCET - STUDENT...
- W106017 HCET - STUDENT...
- W106021 HCET - STUDENT...

15:54 | lshdgs027

Sl. No	PARAMETER	VALUE
1	Number of phases	3
2	Watt	225000 W
3	Power factor	0.85
4	Supply Voltage	400 V
5	Efficiency	0.95
6	Power factor	0.85
7	Number of phases	3
8	Power	225000 W
9	Efficiency	0.95
10	Substation capacity	500 kVA

REC

16:30 | lshdgs027

REC

Parulim A is presenting

Output Connectors for Low voltage DC FC

B1.2.1 EV2 Plug

B1.2.2 EV Socket

B1.2.3 Pin Details

- DC+ : Positive DC power
- CC2 : Connection confirmation 1
- DC- : Negative DC power
- CC1 : Connection confirmation 2
- PE : Protective ground cable
- A+ : Positive Low auxiliary power
- S+ : Charging Communication CAN-H
- A- : Negative Low auxiliary power
- S- : Charging Communication CAN-L

16:08 | lshdgs027



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

VALUE ADDED COURSE - FEEDBACK

"LabVIEW PROGRAMMING: CORE I & CORE II"

03rd August 2020 to 07th August 2020

At the Scale of 1-4, Please rate the following statements

1	2	3	4	5
<i>Strongly disagree</i>	<i>Disagree</i>	<i>Neither agree nor disagree</i>	<i>Agree</i>	<i>Strongly Agree</i>

Statements:

S. No	Question	1	2	3	4	5
01	You are able to apply the practical knowledge in differentiate between graphical simulators and non-graphical simulators.				✓	
02	You can able to explain the importance of Front Panel and Circuit Diagram using LabVIEW.					✓
03	You are satisfied with the LabVIEW software used for connecting or wiring objects.					✓
04	You can independently program for a real time problem using LabVIEW.					✓
05	You have the ability to design and find solutions with team members for real time problems USING LabVIEW.				✓	
06	Your interaction with the trainer was highly informative and comfortable.				✓	

Participant ID/ Register Number : 18105035

Signature of Participant

Boya Sulija.P.R



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VALUE ADDED COURSE - FEEDBACK

"LabVIEW PROGRAMMING: CORE I & CORE II"

03rd August 2020 to 07th August 2020

At the Scale of 1-4, Please rate the following statements

1	2	3	4	5
<i>Strongly disagree</i>	<i>Disagree</i>	<i>Neither agree nor disagree</i>	<i>Agree</i>	<i>Strongly Agree</i>

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Participant ID/ Register Number : 18105036

Signature of Participant : Nandhini.S



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Participant ID/ Register Number : 19105003

Signature of Participant

A. Jayaram

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Participant ID/ Register Number : 18105011

Signature of Participant :



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Participant ID/ Register Number : 18105017

Signature of Participant : Gopinath.D

LabVIEW™ Core 1 Course Manual

Course Software Version 2012
August 2012 Edition
Part Number 325290D-01

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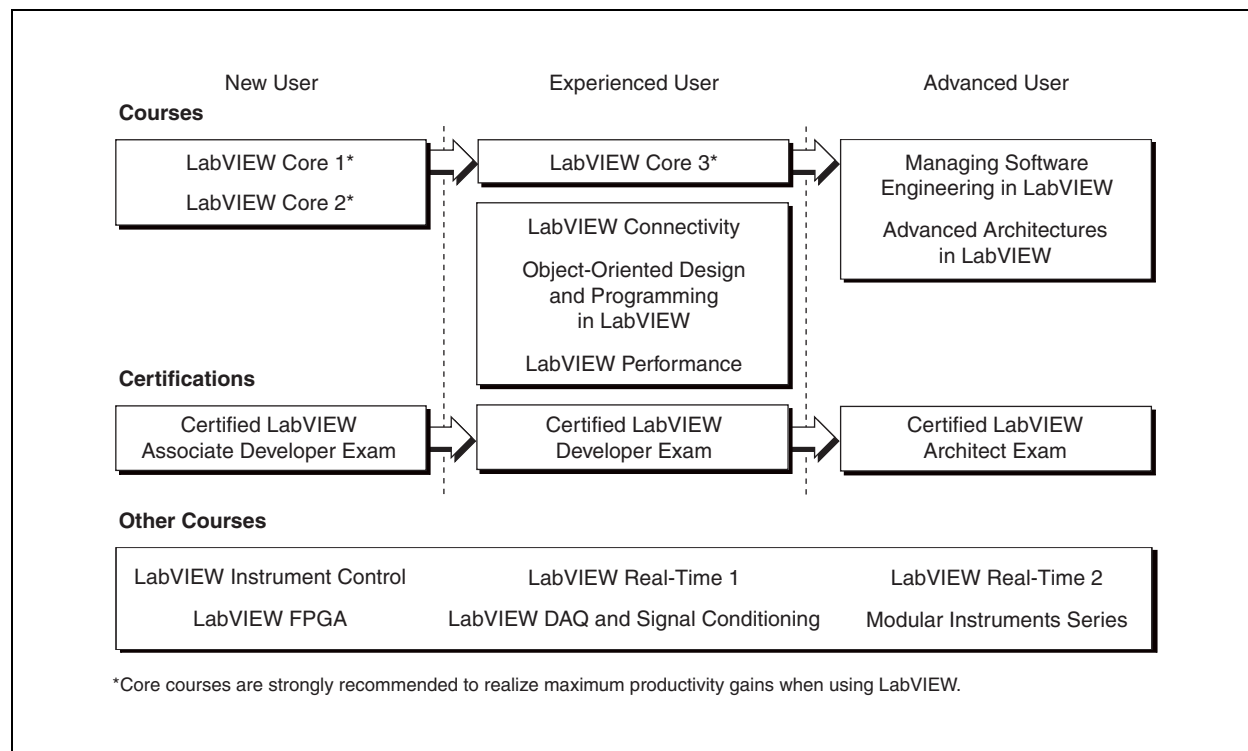
Student Guide

Thank you for purchasing the *LabVIEW Core 1* course kit. You can begin developing an application soon after you complete this course. This course manual and the accompanying software are used in the three-day, hands-on *LabVIEW Core 1* course.

You can apply the full purchase of this course kit toward the corresponding course registration fee if you register within 90 days of purchasing the kit. Visit ni.com/training for online course schedules, syllabi, training centers, and class registration.

A. NI Certification

The *LabVIEW Core 1* course is part of a series of courses designed to build your proficiency with LabVIEW and help you prepare for the NI Certified LabVIEW Associate Developer exam. The following illustration shows the courses that are part of the LabVIEW training series. Refer to ni.com/training for more information about NI Certification.



B. Course Description

The *LabVIEW Core 1* course teaches you programming concepts, techniques, features, VIs, and functions you can use to create test and measurement, data acquisition, instrument control, datalogging, measurement analysis, and report generation applications. This course assumes that you are familiar with Windows and that you have experience writing algorithms in the form of flowcharts or block diagrams. The course and exercise manuals are divided into lessons, described as follows.

In the course manual, each lesson consists of the following:

- An introduction that describes the purpose of the lesson and what you will learn
- A description of the topics in the lesson
- A summary quiz that tests and reinforces important concepts and skills taught in the lesson

In the exercise manual, each lesson consists of the following:

- A set of exercises to reinforce those topics
- Some lessons include optional and challenge exercise sections or a set of additional exercises to complete if time permits



Note For course and exercise manual updates and corrections, refer to ni.com/info and enter the Info Code `Core1`.

Several exercises use one of the following National Instruments hardware products:

- A plug-in multifunction data acquisition (DAQ) device connected to a BNC-2120 containing a temperature sensor, function generator, and LEDs
- A GPIB interface connected to an NI Instrument Simulator

If you do not have this hardware, you still can complete the exercises. Alternate instructions are provided for completing the exercises without hardware. You also can substitute other hardware for those previously mentioned. For example, you can use a GPIB instrument in place of the NI Instrument Simulator, or another National Instruments DAQ device connected to a signal source, such as a function generator.

C. What You Need to Get Started

Suggested Reading

The suggested reading material ensure that all students have a minimum knowledge of key theories and concepts related to the *LabVIEW Core 1* course. To get the most out of this course, complete all the suggested reading material.

To access each of the following suggested reading materials, refer to ni.com/info and enter the Info Code that corresponds to each topic:

- LabVIEW Core 1 - The Software Development Method* (Info Code: SoftDev)
- Introduction to Data Acquisition* (Info Code: DAQ)
- GPIB Instrument Control Tutorial* (Info Code: GPIB)

Course Materials

Before you begin this course, ensure you have all the following items:

- Computer running Windows 7/Vista/XP
- Multifunction DAQ device configured as Dev1 using Measurement & Automation Explorer (MAX)
- BNC-2120, wires, and cable
- GPIB interface
- NI Instrument Simulator and power supply
- LabVIEW Full or Professional Development System 2012 or later
- DAQmx 9.5.5 or later
- NI-488.2 3.0.2 or later
- NI VISA 5.2 or later
- A GPIB cable

- NI Instrument Simulator Wizard installed from the NI Instrument Simulator software CD
- LabVIEW Core 1* course CD, which installs the following folders:

Directory	Description
Exercises	Folder for saving VIs created during the course and for completing certain course exercises; also includes subVIs necessary for some exercises and zip file (NI Instrument Simulator.zip) containing the LabVIEW instrument driver for the NI Instrument Simulator
Solutions	Contains the solutions to all the course exercises

D. Installing the Course Software

Complete the following steps to install the course software.

1. Insert the course CD in your computer. The **LabVIEW Core 1 Course Setup** dialog box appears.
2. Click **Install the course materials**.
3. Follow the onscreen instructions to complete installation and setup.

Exercise files are located in the <Exercises>\LabVIEW Core 1\ folder.



Note Folder names in angle brackets, such as <Exercises>, refer to folders on the root directory of your computer.

E. Course Goals

This course prepares you to do the following:

- Understand front panels, block diagrams, icons, and connector panes
- Use the programming structures and data types that exist in LabVIEW
- Use various editing and debugging techniques
- Create and save VIs so you can use them as subVIs
- Display and log data
- Create applications that use plug-in DAQ devices
- Create applications that use serial port and GPIB instruments




This course does *not* describe the following:

- Every built-in VI, function, or object; refer to the *LabVIEW Help* for more information about LabVIEW features not described in this course
- Analog-to-digital (A/D) theory

- Operation of the GPIB bus
- Developing an instrument driver
- Developing a complete application for any student in the class; refer to the NI Example Finder, available by selecting **Help»Find Examples**, for example VIs you can use and incorporate into VIs you create

F. Course Conventions

The following conventions appear in this course manual:

- » The » symbol leads you through nested menu items and dialog box options to a final action. The sequence **Tools»Instrumentation»Find Instrument Drivers** directs you to drop down the **Tools** menu, select the **Instrumentation** item, and finally select the **Find Instrument Drivers** option.
-  This icon denotes a tip, which alerts you to advisory information.
-  This icon denotes a note, which alerts you to important information.
-  This icon denotes a caution, which advises you of precautions to take to avoid injury, data loss, or a system crash.
- bold** Bold text denotes items that you must select or click in the software, such as menu items and dialog box options. Bold text also denotes sections of dialog boxes and hardware labels.
- italic* Italic text denotes variables, emphasis, a cross-reference, or an introduction to a key concept. Italic text also denotes text that is a placeholder for a word or value that you must supply.
- `monospace` Text in this font denotes text or characters that you enter from the keyboard, sections of code, programming examples, and syntax examples. This font also is used for the proper names of disk drives, paths, directories, programs, subprograms, subroutines, device names, functions, operations, variables, filenames, and extensions.
- `monospace bold`** Text in this font denotes the messages and responses that the computer automatically prints to the screen. This font also emphasizes lines of code that are different from the other examples.
- Platform** Text in this font denotes a specific platform and indicates that the text following it applies only to that platform.

Navigating LabVIEW

This lesson introduces how to navigate the LabVIEW environment. This includes using the menus, toolbars, palettes, tools, help, and common dialog boxes of LabVIEW. You also learn how to run a VI and gain a general understanding of a front panel and block diagram. At the end of this lesson, you create a simple VI that acquires, analyzes, and presents data.

Topics

- A. What is LabVIEW
- B. Project Explorer
- C. Parts of a VI
- D. Front Panel
- E. Block Diagram
- F. Searching for Controls, VIs and Functions
- G. Selecting a Tool
- H. Dataflow
- I. Building a Simple VI

A. What is LabVIEW

LabVIEW is a graphical programming environment you can use to quickly and efficiently create applications with professional user interfaces. Millions of engineers and scientists use LabVIEW to develop sophisticated measurement, test, and control system applications using intuitive icons and wires. In addition, the LabVIEW platform is scalable across different targets and OSs. In fact, LabVIEW offers unrivaled integration with thousands of hardware devices and provides hundreds of built-in libraries for advanced analysis and data visualization for you to create virtual instruments you can customize to your needs.

Because LabVIEW programs imitate the appearance and operation of physical instruments, such as oscilloscopes and multimeters, LabVIEW programs are called virtual instruments or, more commonly, VIs. VIs have front panels and block diagrams. The front panel is the user interface. The block diagram is the programming behind the user interface. After you build the front panel, you add code using graphical representations of functions to control the front panel objects. The code on the block diagram is graphical code, also known as G code or block diagram code.

In contrast to text-based programming languages, like C++ and Visual Basic, LabVIEW uses icons instead of lines of text to create applications. In text-based programming, instructions determine the order of program execution. LabVIEW uses graphical dataflow programming. In graphical dataflow programming, the flow of data through the nodes on the block diagram determines the execution order. Graphical programming and dataflow execution are the two major ways LabVIEW is different from most other general-purpose programming languages.

In this course, you see how you can use LabVIEW to effectively create simple data acquisition applications using the three steps: acquire, analyze, and present. Although this course is taught on a Windows system, LabVIEW is multi-platform. You can develop applications on a Windows, Mac OS, or Linux system. Furthermore, you can deploy LabVIEW applications to a variety of real-time and FPGA targets.

LabVIEW Characteristics

LabVIEW programs have the following characteristics:

- A graphical and compiled nature
- Dataflow and/or event-based programming
- Multi-target and platform capabilities
- Object-oriented flexibility
- Multi-threading possibilities

In LabVIEW Core 1, you learn about the graphical and compiled nature of LabVIEW and dataflow programming. The following courses explore other characteristics:

- LabVIEW Core 2—Learn about event-based programming.
- Object-Oriented Design and Programming in LabVIEW—Learn about object-oriented programming in LabVIEW.
- LabVIEW Performance—Learn how to take advantage of LabVIEW's multithreading and memory management to improve program execution and memory usage.

Graphical and Compiled

While represented graphically, with icons and wires instead of with text, G code on the block diagram contains the same programming concepts found in most traditional languages. For example, G code includes data types, loops, event handling, variables, recursion, and object-oriented programming. LabVIEW compiles G code directly to machine code so the computer processors can execute it. You do not have to compile G code in a separate step.

Dataflow and Event-Driven Programming

LabVIEW programs execute according to dataflow programming rules instead of the procedural approach found in most text-based programming languages such as C and C++. Dataflow execution is data-driven, or data-dependent. The flow of data between nodes in the G code determines the execution order.

Event-driven programming features extend the LabVIEW dataflow environment to allow the user's direct interaction with the program without the need for polling. Event-based programming also allows other asynchronous activity to influence the execution of G code on the block diagram.

Multi-Target and Multi-Platform

With LabVIEW applications, you can target multicore processors and other parallel hardware such as field-programmable gate arrays (FPGAs). You can automatically scale LabVIEW applications to CPUs with two, four, or more cores, often with no additional programming effort.

G code, with the exception of a few platform-specific functions, is portable between the different LabVIEW systems for different operating systems. Therefore, you can often use the same code whether running LabVIEW on Windows, Mac OS X or Linux systems.

Object-Oriented

Object-oriented programming is a popular programming approach across a wide variety of programming languages. It allows a variety of similar, yet different items, to be represented as a class of objects in software. LabVIEW provides tools and functions so you can use object-oriented programming techniques in G code.

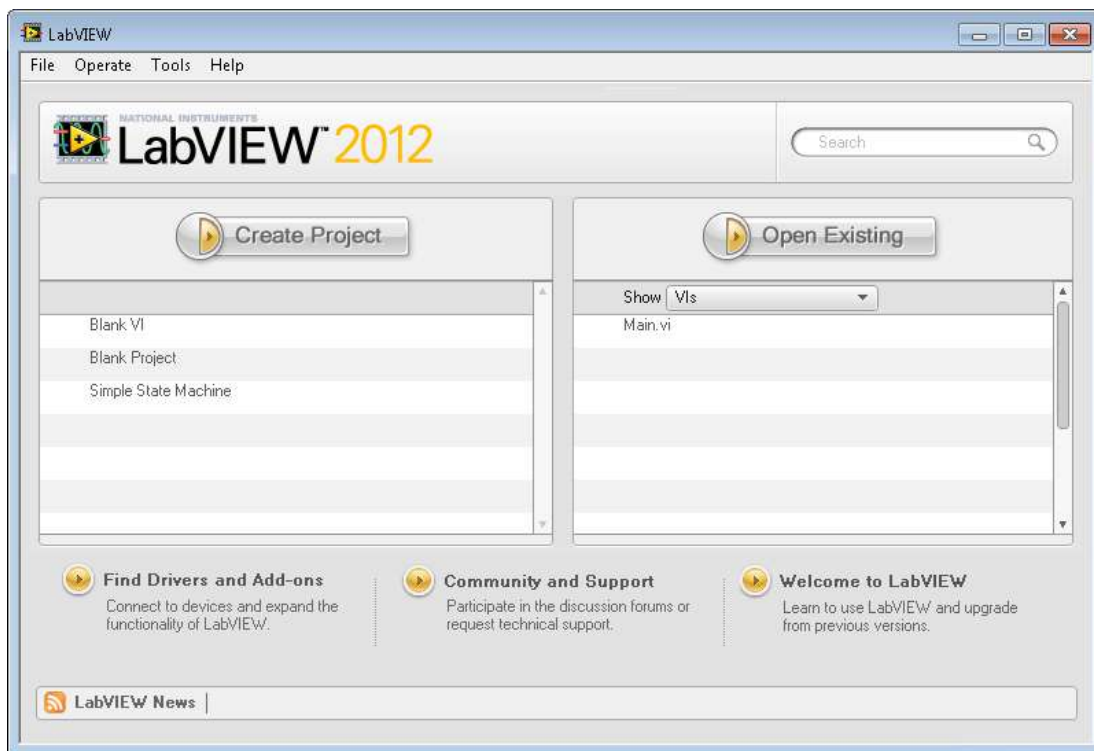
Multithreading and Memory Management

LabVIEW enables your code to have automatic parallelism. In other languages if you want to run code in parallel, you have to manage multiple threads manually. The LabVIEW environment, with the compiler and execution system working together, automatically runs code in parallel whenever possible. Most of the time the details of the execution system are unimportant to you because the system does the right thing without intervention. However, LabVIEW also provides you with options for improving performance.

Launching the LabVIEW Environment

When you launch LabVIEW, the **Getting Started** window appears as shown in Figure 1-1.

Figure 1-1. LabVIEW Getting Started Window



Use the **Getting Started** window to create new projects and VIs. You can create items from scratch or from templates and samples. You can also open existing LabVIEW files and access LabVIEW community resources and help.

The **Getting Started** window disappears when you open an existing file or create a new file, and reappears when you close all open front panels and block diagrams. You can display the window at any time by selecting **View»Getting Started Window**.

B. Project Explorer

VIs are LabVIEW programs, and you can use multiple VIs together to make a LabVIEW application. To group these application-related VIs together, use a LabVIEW project. When you save a LabVIEW project from the **Project Explorer** window, LabVIEW creates a project file (.lvproj), that includes references to all the LabVIEW files and non-LabVIEW files in the project, configuration information, build information, and deployment information.

Some LabVIEW applications, such as simple VIs, do not need to use a LabVIEW project. However, you must use a project to build stand-alone applications and shared libraries. In addition, you must use a project to work with non-development machine targets such as real-time (RT), field-programmable gate array (FPGA), or personal digital assistant (PDA) targets. Refer to the specific module documentation for more information about using projects with the LabVIEW Real-Time, FPGA, and PDA modules.

Project Explorer Window

Projects in LabVIEW consist of VIs, files necessary for those VIs to run properly, and supplemental files such as documentation or related links. Use the **Project Explorer** window to manage projects in LabVIEW.

The **Project Explorer** window includes the following items by default:

- **Project root**—Contains all other items in the **Project Explorer** window. The label on the project root includes the filename for the project.
- **My Computer**—Represents the local computer as a target in the project.
- **Dependencies**—Includes VIs and items that VIs under a target require.
- **Build Specifications**—Includes build configurations for source distributions and other types of builds available in LabVIEW toolkits and modules. If you have the LabVIEW Professional Development System or Application Builder installed, you can use **Build Specifications** to configure stand-alone applications, shared libraries, installers, and zip files.



Tip A *target* is any device that can run a VI.

When you add another target to the project, LabVIEW creates an additional item in the **Project Explorer** window to represent the target. Each target also includes **Dependencies** and **Build Specifications** sections. You can add files under each target.

Complete the following steps to use the **Project Explorer** window to create and edit LabVIEW Projects.

1. Select **File»Create Project** to display the **Create Project** dialog box. The **Create Project** dialog box includes a list of templates and sample projects you can use to ensure that the project you create uses reliable designs and programming practices.

LabVIEW™ Core 2 Course Manual

Course Software Version 2012

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Appendix A

Additional Information and Resources

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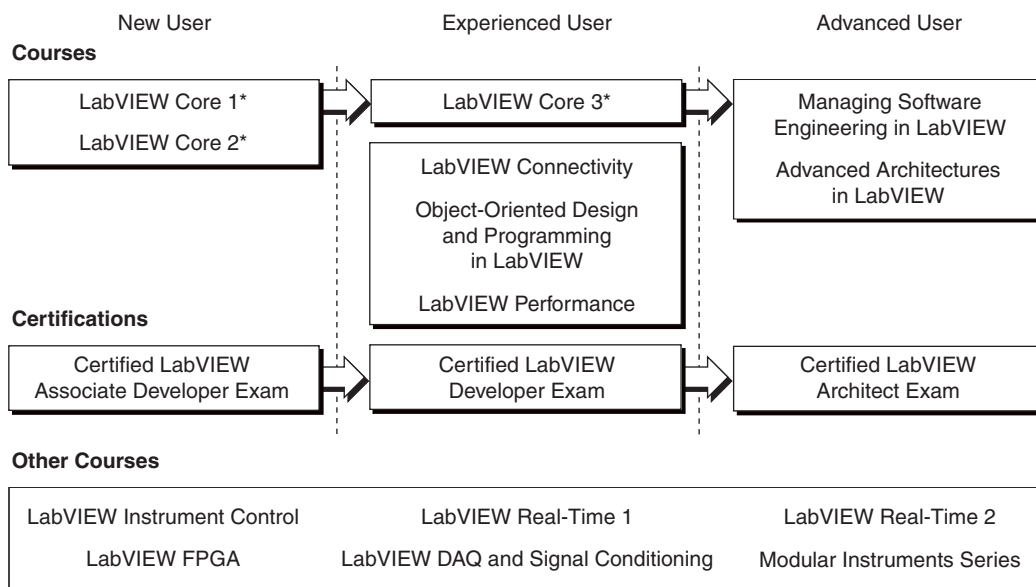
Student Guide

Thank you for purchasing the *LabVIEW Core 2* course kit. You can begin developing an application soon after you complete this course. This course manual and the accompanying software are used in the two-day, hands-on *LabVIEW Core 2* course.

You can apply the full purchase of this course kit toward the corresponding course registration fee if you register within 90 days of purchasing the kit. Visit ni.com/training for online course schedules, syllabi, training centers, and class registration.

A. NI Certification

The *LabVIEW Core 2* course is part of a series of courses designed to build your proficiency with LabVIEW and help you prepare for the NI Certified LabVIEW Associate Developer exam. The following illustration shows the courses that are part of the LabVIEW training series. Refer to ni.com/training for more information about NI Certification.



*Core courses are strongly recommended to realize maximum productivity gains when using LabVIEW.

B. Course Description

The *LabVIEW Core 2* course teaches you programming concepts, techniques, features, VIs, and functions you can use to create test and measurement, data acquisition, instrument control, datalogging, measurement analysis, and report generation applications. This course assumes that you are familiar with Windows, that you have experience writing algorithms in the form of flowcharts or block diagrams, and that you have taken the *LabVIEW Core 1* course or have equivalent experience. The course and exercise manuals are divided into lessons, described as follows.

In the course manual, each lesson consists of the following:

- An introduction that describes the purpose of the lesson and what you will learn
- A description of the topics in the lesson
- A summary or quiz that tests and reinforces important concepts and skills taught in the lesson

In the exercise manual, each lesson consists of the following:

- A set of exercises to reinforce those topics
- Some lessons include optional and challenge exercise sections or a set of additional exercises to complete if time permits



Note For course and exercise manual updates and corrections, refer to ni.com/info and enter the Info Code `core2`.

Several exercises use a plug-in multifunction data acquisition (DAQ) device connected to a DAQ Signal Accessory or BNC-2120 containing a temperature sensor, function generator, and LEDs.

If you do not have this hardware, you still can complete the exercises. Alternate instructions are provided for completing the exercises without hardware. You also can substitute other hardware for those previously mentioned. For example, you can use another National Instruments DAQ device connected to a signal source, such as a function generator.

C. What You Need to Get Started

Before you use this course manual, make sure you have all of the following items:

- Computer running Windows 7/Vista/XP
- Multifunction DAQ device configured as Dev1 using Measurement & Automation Explorer (MAX)
- DAQ Signal Accessory or BNC-2120, wires, and cable
- LabVIEW Professional Development System 2012 or later
- DAQmx 9.5.5 or later
- LabVIEW Core 2* course CD, from which you install the following folders:

Directory	Description
Exercises	Contains VIs used in the course
Solutions	Contains completed course exercises

D. Installing the Course Software

Complete the following steps to install the course software.

1. Insert the course CD in your computer. The **LabVIEW Core 2 Course Setup** dialog box appears.
2. Click **Install the course materials**.
3. Follow the onscreen instructions to complete installation and setup.

Exercise files are located in the <Exercises>\LabVIEW Core 2\ folder.



Note Folder names in angle brackets, such as <Exercises>, refer to folders on the root directory of your computer.

E. Course Goals

This course prepares you to do the following:

- Apply common design patterns that use queues and events
- Use event programming effectively
- Programmatically control user interface objects
- Evaluate file I/O formats and use them in applications
- Modify existing code for improved usability
- Prepare, build, debug, and deploy stand-alone applications

This course does *not* describe any of the following:

- LabVIEW programming methods covered in the *LabVIEW Core 1* course
- Every built-in VI, function, or object; refer to the *LabVIEW Help* for more information about LabVIEW features not described in this course
- Developing a complete application for any student in the class; refer to the NI Example Finder, available by selecting **Help»Find Examples**, for example VIs you can use and incorporate into VIs you create

F. Course Conventions

The following conventions appear in this course manual:

- » The » symbol leads you through nested menu items and dialog box options to a final action. The sequence **Tools»Instrumentation»Find Instrument Drivers** directs you to drop down the **Tools** menu, select the **Instrumentation** item, and finally select the **Find Instrument Drivers** option.



This icon denotes a tip, which alerts you to advisory information.



This icon denotes a note, which alerts you to important information.



This icon denotes a caution, which advises you of precautions to take to avoid injury, data loss, or a system crash.

bold

Bold text denotes items that you must select or click in the software, such as menu items and dialog box options. Bold text also denotes sections of dialog boxes and hardware labels.

italic

Italic text denotes variables, emphasis, a cross-reference, or an introduction to a key concept. Italic text also denotes text that is a placeholder for a word or value that you must supply.

`monospace`

Text in this font denotes text or characters that you should enter from the keyboard, sections of code, programming examples, and syntax examples. This font is also used for the proper names of disk drives, paths, directories, programs, subprograms, subroutines, device names, functions, operations, variables, filenames, and extensions.

`monospace bold`

Bold text in this font denotes the messages and responses that the computer automatically prints to the screen. This font also emphasizes lines of code that are different from the other examples.

Platform

Text in this font denotes a specific platform and indicates that the text following it applies only to that platform.

Moving Beyond Dataflow

As you learned in *LabVIEW Core 1*, LabVIEW is a dataflow language where the flow of data determines the execution order of block diagram elements. A block diagram node executes when it receives all required inputs. When a node executes, it produces output data and passes the data to the next node in the dataflow path. The movement of data through wires and nodes determines the execution order of the VIs and functions on the block diagram. This type of communication between nodes is referred to as synchronous communication.

Topics

- A. Asynchronous Communication
- B. Queues
- C. Event-Driven Programming

A. Asynchronous Communication

Although LabVIEW is a dataflow language that uses wires to transfer data between functions, there are situations where communicating asynchronously, or without wires, is desirable. In this lesson you learn two important techniques for communicating asynchronously—queues for communicating between parallel loops and events for communicating between the user interface and the block diagram.

B. Queues

Use queues to communicate data between parallel loops in LabVIEW. A queue can hold data of any type and can store multiple pieces of data. By default, queues work in a first in, first out (FIFO) manner. Therefore, the first piece of data inserted into the queue is the first piece of data that is removed from the queue. Use a queue when you want to process all data placed in the queue.




Variables are useful in LabVIEW for passing data between parallel processes. However, when using variables it is often difficult to synchronize data transfers, which may cause you to read duplicate data or to miss data. Further more, you must take care to avoid race conditions. This lesson introduces queues as alternative methods for passing data between parallel processes. Queues have advantages over using variables because of the ability to synchronize the transfer of data.

Queue Operations

Use the queue operations functions to create and use queues for communicating data between different sections of a VI and different VIs.

Table 1-1 describes the queue operations functions you use in this course.

Table 1-1. Queue Operations Functions

Function	Description
Dequeue Element 	Removes an element from the front of a queue and returns the element.
Enqueue Element 	Adds an element to the back of a queue.
Enqueue Element at Opposite End 	Adds an element to the front of a queue.

**Electronics and Instrumentation
Engineering**



Hindusthan College of Engineering And Technology
Approved by AICTE, New Delhi, Accredited with 'A' Grade by NAAC
(An Autonomous Institution, Affiliated to Anna University, Chennai)
Othakalmandabam Post, Coimbatore



NAME LIST –EIE

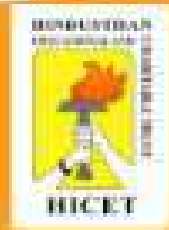
Batch :2019-2023

S.NO	REG NO	NAME OF THE STUDENT
1	19107001	ABDUL KADHER A
2	19107002	ADHITHAN A
3	19107003	ALGO RICHWIN A
4	19107004	ANTRO GODWIN J
5	19107005	AROCKIA PENILAN W
6	19107006	BALAKRISHNAN B
7	19107007	BHUPATHI V
8	19107008	DEVASENAN A
9	19107009	EISHWARAN J
10	19107010	GOKUL RAJA S V
11	19107011	HARIHARAN M
12	19107012	HARSHAVARDHAN G
13	19107013	JEEVAN KARTHIK A
14	19107014	KABILAN P
15	19107015	KEERTHICK RAJU K
16	19107016	KINGSON T
17	19107017	MOHAMED FAHAD M
18	19107018	MOHAMMED HARISH S
19	19107019	NANDHA KUMARAN R
20	19107020	PONSUGANTHI S
21	19107021	ROBIN MATHEW R
22	19107022	SAHAYA SIFIN A
23	19107023	SELVAM M
24	19107024	SHANTHOSH KUMAR M
25	19107025	SIVA YOGESHWAR J
26	19107026	SORNALATHA N
27	19107027	SUDHARSON R
28	19107028	ELAVARASAN N
29	19107801	NIKIL AKASH S
30	19107802	NOBEL DHANARAJ S
31	19107803	SARVESH KUMAR R
32	19107804	SRINIVASAN T
33	19107805	VENGADESAN R

Attendance for: class-list

Date: "2021-05-03" "Time:" "11:42" "Meet II "knj-tuoq-egj"

Names	"2021-05-03"	"Email"	"Comm"	"Arrival	"Last Se	"# of Ch	"Joined"
19107001 Hicet - Student Eie	"âœ"	""	""	"10:00"	"12:30"	"49"	"1"
19107002 Hicet - Student Eie	"âœ"	""	""	"10:10"	"12:29"	"48"	"1"
19107003 Hicet - Student Eie	"âœ"	""	""	"10:20"	"12:31"	"52"	"3" 11:52 (411:42 (11min) [1:
19107005 Hicet - Student Eie	""	""	""	"10:20"	"12:29"	"38"	"1"
19107006 Hicet - Student Eie	"âœ"	""	""	"10:20"	"12:29"	"48"	"1"
19107007 Hicet - Student Eie	""	""	""	"10:20"	"12:29"	"38"	"1"
19107008 Hicet - Student Eie	""	""	""	"10:26"	"12:29"	"38"	"1"
19107009 Hicet - Student Eie	"âœ"	""	""	"10:28"	"12:31"	"36"	"2" 12:13 (19min) [12:31]
19107010 Hicet - Student Eie	"âœ"	""	""	"10:00"	"12:31"	"48"	"2" 12:10 (22min) [12:31]
19107011 Hicet - Student Eie	"âœ"	""	""	"10:10"	"12:29"	"38"	"1"
19107012 Hicet - Student Eie	"âœ"	""	""	"10:00"	"12:29"	"42"	"2" 11:44 (36min) [12:19]
19107013 Hicet - Student Eie	"âœ"	""	""	"10:00"	"12:30"	"39"	"1"
19107014 Hicet - Student Eie	"âœ"	""	""	"10:00"	"12:31"	"49"	"1"
19107015 Hicet - Student Eie	"âœ"	""	""	"10:10"	"12:29"	"48"	"1" 11:44 (36min) [12:19]
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19107019 Hicet - Student Eie	""	""	""	"10:15"	"12:29"	"38"	"1"
19107020 Hicet - Student Eie	"âœ"	""	""	"10:00"	"12:30"	"44"	"3" 11:51 (411:50 (2min) [11:
19107021 Hicet - Student Eie	"âœ"	""	""	"10:10"	"12:31"	"49"	"2" 12:11 (21min) [12:31]
19107023 Hicet - Student Eie	"âœ"	""	""	"10:00"	"12:31"	"50"	"1"
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19107025 Hicet - Student Eie	"âœ"	""	""	"10:00"	"12:31"	"40"	"1" 12:11 (21min) [12:31]
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19107027 Hicet - Student Eie	"âœ"	""	""	"10:27"	"12:31"	"40"	"1"
19107028 Hicet - Student Eie	""	""	""	"10:00"	"12:29"	"38"	"1" 12:11 (21min) [12:31]
19107802 Hicet - Student Eie	"âœ"	""	""	"10:00"	"12:31"	"49"	"1"
19107803 Hicet - Student Eie	"âœ"	""	""	"10:28"	"12:31"	"50"	"1"
19107804 Hicet - Student Eie	""	""	""	"10:00"	"12:29"	"38"	"1" 12:11 (21min) [12:31]
19107805 Hicet - Student Eie	"âœ"	""	""	"10:32"	"12:30"	"16"	"1"



Hindusthan College of Engineering and Technology

Coimbatore 641032, www.hicet.ac.in

Department of Electronics and Instrumentation

Engineering

&

Department of Biomedical Engineering

organizes

Value Added Course

On

**Object Oriented Programming
using JAVA**

Duration

31.05.2021

To

05.06.2021

Time

10am to 12.30pm

&

2pm to 4.30pm

Contents to be delivered

- Introduction to Object Oriented Programming Concepts
- Overview of JAVA Languages
- Packages and Interfaces
- Exception Handling
- Multithread Programming

Course Outcome

- To understand the concepts of Object-Oriented Programming
- To impart the fundamental concepts of JAVA
- To gain programming skills in JAVA
- To handle exceptions and multithread programming concepts

Google Meet Link:

<https://classroom.google.com/jc/MzQ4NjQ3NzU4MzQx?cjc=sqso2l>

Resource Persons

Mr.D.Magesh

Associate Prof., Dept.of CSE,HICET

Ms.A.Gomathy

Assistant Prof., Dept.of CSE,HICET

vat-eggk-cpr (2021-06-04 at 21:51 GMT-7)

The screenshot shows a Zoom meeting window. At the top, there are browser tabs and the Zoom URL. Below the address bar, a red 'Join' button is visible. The main area is mostly dark, indicating the user is not yet in the meeting. On the right side, there is a 'Private messages' panel with three messages from 'STANLEY BME'. The messages are:

- Message 1: "Hi Stanley, I'm glad to hear you're interested in the course and are joining via the web app."
- Message 2: "Hi Stanley BME - Hi! Do you already implement a security for a container that connects to a provider?"
- Message 3: "Hi Stanley BME - Hi! What is the best to do when connecting?"

At the bottom of the Zoom window, there is a toolbar with icons for mute, video, chat, and other controls. A blue 'Joining' button is also present in the bottom right corner of the interface.

This block shows a single Zoom video tile for a participant named 'STANLEY BME'. The tile contains a circular profile picture of a man with a mustache, wearing a suit and tie. The name 'STANLEY BME' is displayed below the profile picture.



Hindusthan College of Engineering and Technology

Valley campus ,Pollachi highway , Coimbatore



DEPARTMENT OF :

**BIOMEDICAL ENGINEERING
&
ELECTRONICS AND INSTRUMENTATION**



<u>Designation</u> :	Systems engineer
<u>Role</u> :	Java full stack developer
<u>Company</u> :	Tata consultancy services

VALUE ADDED COURSE ON :

*' Object Oriented
Programming Using Java '*

Date : 05-06-2021

Time : 10 - 12 pm

Raja Rajan R



Hindusthan College of Engineering and Technology

Valley campus, Pollachi highway, Coimbatore



DEPARTMENT OF :

BIOMEDICAL ENGINEERING
&
ELECTRONICS AND INSTRUMENTATION

VALUE ADDED COURSE ON :

*'Java in the perspective
of a software industry..'*

Designation : Associate Software
Engineer

Company : Robert Bosch
engineering

Mr Patric Phinehas Raj

Date : 05-06-2021

Time : 2 - 4 pm



Hindusthan College of Engineering and Technology

(An Autonomous Institution, Affiliated to Anna University, Chennai)
Valley Campus, Pollachi Highway, Coimbatore - 641032



FEEDBACK FORM

Course Title: VALUE ADDED COURSE on "Object Oriented Programming Using JAVA"

Trainer(s) Name: Mr.D.Magesh Associate Prof/CSE, Ms.A.Gomathy AP/CSE

Date: 31.05.2021 to 05.06.2021 Venue: Google Meet

Please tick(✓) the appropriate score against each question under every subdivision

1-Satisfactory 2-Good 3-Very Good 4-Excellent 5-Outstanding

Questionnaire

	1	2	3	4	5
1. Teaching Structure of the Module Clear and Consistent				✓	
2. Completeness of the coverage of syllabus in accordance with learning objectives			✓		
3. Balance Between Theory, Activities and Discussions			✓		
4. Length and pace of the program			✓		
5. Trainer demonstrates skills with related examples and multiple evaluation methods				✓	
6. Trainer(s) able to make clear presentation and provide instructions			✓		
7. Effectiveness of the practical activities				✓	

8. Any suggestions for the improvement of the course

NIL

Your Contact Details (Optional):

Name: G Harshvardhan Affiliation: IIT EJE



Hindusthan College of Engineering and Technology

(An Autonomous Institution, Affiliated to Anna University, Chennai)
Valley Campus, Pollachi Highway, Coimbatore - 641032



FEEDBACK FORM

Course Title: VALUE ADDED COURSE on "Object Oriented Programming Using JAVA"

Trainer(s) Name: Mr.D.Magesh Associate Prof/CSE, Ms.A.Gomathy AP/CSE

Date: 31.05.2021 to 05.06.2021 Venue: Google Meet

Please tick(✓) the appropriate score against each question under every subdivision

1-Satisfactory 2-Good 3-Very Good 4-Excellent 5-Outstanding

Questionnaire

	1	2	3	4	5
1. Teaching Structure of the Module Clear and Consistent		✓			
2. Completeness of the coverage of syllabus in accordance with learning objectives		✓			
3. Balance Between Theory, Activities and Discussions	✓				
4. Length and pace of the program	✓				
5. Trainer demonstrates skills with related examples and multiple evaluation methods		✓			
6. Trainer(s) able to make clear presentation and provide instructions	✓				
7. Effectiveness of the practical activities		✓			

8. Any suggestions for the improvement of the course

More explanations and practical session would have added advantage

Your Contact Details (Optional):

Name: M Mohamed Fahad Affiliation: IIETE



HINDUSTHAN *College of Engineering and Technology*

(An Autonomous Institution)

Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

HARSHAVARDHAN G [19107012] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

HOD



DEAN-ACADEMICS

PRINCIPAL



HINDUSTHAN *College of Engineering and Technology*

(An Autonomous Institution)

Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

MOHAMED FAHAD M [19107017] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

HOD



DEAN-ACADEMICS

PRINCIPAL

Value Added Course On Object Oriented Programming using JAVA

PRESENTED BY
MR.D.MAGESH
ASSOCIATE PROF., DEPT.OF CSE,HICET

CONTENTS:

- ACCESS SPECIFIERS
- STATIC MEMBERS
- CONSTRUCTORS
- THIS KEYWORD
- FINALIZE METHOD

ACCESS SPECIFIERS

The access specifiers in Java specifies the accessibility or scope of a field, method, constructor, or class.

We can change the access level of fields, constructors, methods, and class by applying the access specifice on it.

TYPES OF ACCESS SPECIFIERS

There are four types of Java access modifiers:

Private: The access level of a private modifier is only within the class. It cannot be accessed from outside the class.

Default: The access level of a default modifier is only within the package. It cannot be accessed from outside the package. If you do not specify any access level, it will be the default.

TYPES OF ACCESS SPECIFIERS

Protected: The access level of a protected modifier is within the package and outside the package through child class. If you do not make the child class, it cannot be accessed from outside the package.

Public: The access level of a public modifier is everywhere. It can be accessed from within the class, outside the class, within the package and outside the package.

Let us consider the following scenario:

PACKAGE ANIMAL	PACKAGE BIRD
CLASS LION CLASS TIGER { PUBLIC VOID EAT() }	CLASS PARROT CLASS PEACOCK

Private:

The private access modifier is accessible only within the class.

EXAMPLE:

```
1.class A{
2.private int data=40;
3.public void msg(){
4.System.out.println("Hello java");
5.}
6.}
7.
8.public class Simple{
9. public static void main(String args[]){
10. A obj=new A();
11. System.out.println(obj.data);//Compile Time Error
12. obj.msg();//Compile Time Error
13. }
14.}
```

Role of Private Constructor:

If you make any class constructor private, you cannot create the instance of that class from outside the class.

EXAMPLE:

```
* class A{
* private A()//private constructor
* void msg(){
* System.out.println("Hello java");
* }
* }
* public class Simple{
* public static void main(String args[]){
* A obj=new A();//Compile Time Error
* }
* }
```

Default:

If you don't use any modifier, it is treated as **default** by default. The default modifier is accessible only within package. It cannot be accessed from outside the package. It provides more accessibility than private. But, it is more restrictive than protected, and public

EXAMPLE:

```
* //save by A.java
* package pack;
* class A{
* void msg(){
* System.out.println("Hello");
* }
```

```
* //save by B.java
* package mypack;
* import pack.*;
* class B{
* public static void main(String args[]){
* A obj = new A();//Compile Time Error
* obj.msg();//Compile Time Error
* }
* }
```

the scope of class A and its method msg() is default so it cannot be accessed from outside the package.

Protected:

The protected access modifier is accessible within package and outside the package but through inheritance only.

The protected access modifier can be applied on the data member, method and constructor. It can't be applied on the class.

It provides more accessibility than the default modifier.

```
* //save by A.java
* package pack;
* public class A{
* protected void msg(){System.out.println("Hello");}
* }
```

```
* //save by B.java
* package mypack;
* import pack.*;
* class B extends A{
* public static void main(String args[]){
* B obj = new B();
* obj.msg();
* }
* }
```

Output: Hello

The A class of pack package is public, so can be accessed from outside the package. But msg method of this package is declared as protected, so it can be accessed from outside the class only through inheritance

Public

The public access modifier is accessible everywhere. It has the widest scope among all other modifiers

```
• //save by A.java
• package pack;
• public class A{
• public void msg(){System.out.println(
"Hello");}
• }
```

```
• //save by B.java
• package mypack;
• import pack.*;
• class B{
• public static void main(String args[]){
• A obj = new A();
• obj.msg();
• }
• }
```

Output : Hello

Java static keyword

The static keyword in Java is used for memory management mainly.

We can apply static keyword with variables, methods, blocks and nested classes.

The static keyword belongs to the class than an instance of the class.

The static can be:

- 1.Variable (also known as a class variable)
- 2.Method (also known as a class method)
- 3.Block
- 4.Nested class

Java static variable:

If you declare any variable as static, it is known as a static variable.

- The static variable can be used to refer to the common property of all objects (which is not unique for each object), for example, the company name of employees, college name of students, etc.
- The static variable gets memory only once in the class area at the time of class loading.

Example of static variable

```
• class Student{
• int rollno; //instance variable
• String name;
• static String college = "ITS";
• //static variable
• //constructor
• Student(int r, String n){
• rollno = r;
• name = n;
• }
• //method to display the values
• void display (){System.out.println(rollno+
" "+name+" "+college);}
• }
```

```
• //Test class to show the values of object
• public class TestStaticVariable{
• public static void main(String args[]){
• Student s1 = new Student(111,"Karan")
;
• Student s2 = new Student(222,"Aryan")
;
• //We can change the college of all objects by the single line of code
• //Student.college="BBDIT";
• s1.display();
• s2.display();
• }
• }
```

Output:
111 Karan ITS
222 Aryan ITS

Java static method:

If you apply static keyword with any method, it is known as static method.

- A static method belongs to the class rather than the object of a class.
- A static method can be invoked without the need for creating an instance of a class.
- A static method can access static data member and can change the value of it.

Example of static method

```

class Student{
    int rollno;
    String name;
    static String college = "ITS";
    //static method to change the value of static variable
    static void change(){
        college = "BBDIT";
    }
    //constructor to initialize the variable
    Student(int r, String n){
        rollno = r;
        name = n;
    }
    //method to display values
    void display(){System.out.println(rollno+" "+name+" "+college);}
}

```

//Test class to create and display the values of object

```

public class TestStaticMethod{
    public static void main(String args[]){
        Student.change();//calling change method
    }
    //creating objects
    Student s1 = new Student(111,"Karan");
    Student s2 = new Student(222,"Aryan");
    Student s3 = new Student(333,"Sonoo");
    //calling display method
    s1.display();
    s2.display();
    s3.display();
}

```

Output:111 Karan
BBDIT 222 Aryan BBDIT
333 Sonoo BBDIT

There are two main restrictions for the static method. They are:

- The static method cannot use non static data member or call non-static method directly.
- this and super cannot be used in static context.

```

class A{
    int a=40;//non static
    public static void main(String args[]){
        System.out.println(a);
    }
}

```

Output:
Compile Time Error

Java static block

- Is used to initialize the static data member.
- It is executed before the main method at the time of class loading.

```

class A2{
    static{System.out.println("static block is invoked");}
    public static void main(String args[]){
        System.out.println("Hello main");
    }
}

```

Output:
static block is invoked
Hello main

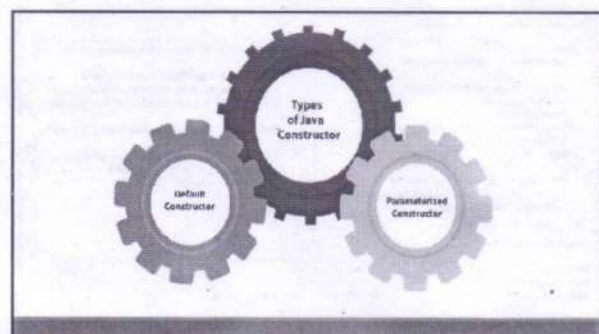
Constructors in Java

In Java, a constructor is a block of codes similar to the method. It is called when an instance of the class is created. At the time of calling constructor, memory for the object is allocated in the memory.

Every time an object is created using the new() keyword, at least one constructor is called.

Rules for creating Java constructor:

- 1.Constructor name must be the same as its class name.
- 2.A Constructor must have no explicit return type.
- 3.A Java constructor cannot be abstract, static, final, and synchronized



Java Default Constructor:

A constructor is called "Default Constructor" when it doesn't have any parameter.
The default constructor is used to provide the default values to the object like 0, null, etc., depending on the type.

Syntax of default constructor:

```
• <class_name>(){}
```

Example of default constructor:

```
• class Bike1{
• //creating a default constructor
• Bike1(){System.out.println("Bike is created")
• }
• //main method
• public static void main(String args[]){
• //calling a default constructor
• Bike1 b=new Bike1();
• }
• }
```

Output:
Bike is created

the no-arg constructor in the Bike class. It will be invoked at the time of object creation.

Example of default constructor that displays the default values

```
• class Student3{
• int id;
• String name;
• //method to display the value of id and name
• void display(){System.out.println(id+" "+name);}
•
• public static void main(String args[]){
• //creating objects
• Student3 s1=new Student3();
• Student3 s2=new Student3();
• //displaying values of the object
• s1.display();
• s2.display();
• }
• }
```

Output:
0 null
0 null

In the given example, you are not creating any constructor so compiler provides you a default constructor. Here 0 and null values are provided by default constructor

Example of parameterized constructor

```
• class Student4{
• int id;
• String name;
• //creating a parameterized constructor
• Student4(int i,String n){
• id = i;
• name = n;
• }
• //method to display the values
• void display(){System.out.println(id+" "+name);
• }
```

Output:
111 Karan
222 Aryan

```
• public static void main(String args[]){
• {
• //creating objects and passing values
• Student4 s1 = new Student4(111,"Karan");
• Student4 s2 = new Student4(222,"Aryan");
• //calling method to display the values of object
• s1.display();
• s2.display();
• }
• }
```

Java this Keyword

The this keyword refers to the current object in a method or constructor.

The most common use of the this keyword is to eliminate the confusion between class attributes and parameters with the same name (because a class attribute is shadowed by a method or constructor parameter).

this can also be used to:

- invoke current class constructor.
- invoke current class method.
- Return the current class object.
- Pass an argument in the method call.
- Pass an argument in the constructor call

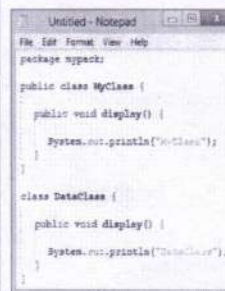
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PRESENTED BY
MR.D.MAGESH
ASSOCIATE PROF., DEPT.OF CSE,HICET

HIDDING CLASS IN JAVA

- When we import a package within a program, only the classes declared as **public** in that package will be made accessible within this program.
- In other words, the classes not declared as public in that package will not be accessible within this program.

- Sometimes, we may wish that certain classes in a package should not be made accessible to the importing program.
- In such cases, we need not declare those classes as public.



```
Untitled - Notepad
File Edit Format View Help
package mypack;

public class MyClass {
    public void display() {
        System.out.println("MyClass");
    }
}

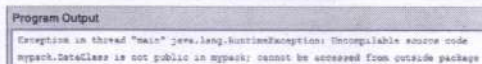
class DataClass {
    public void display() {
        System.out.println("DataClass");
    }
}
```

```
import mypack.*;

public class Devnapp {

    public static void main(String[] args) {

        DataClass da = new DataClass();
        da.display();
    }
}
```



```
Program Output
Exception in thread "main" java.lang.RuntimeException: Unresolvable source code
mypack.DataClass is not public in mypack; cannot be accessed from outside package
```

Java compiler would generate an error message for the code `DataClass da = new DataClass();` because the class `DataClass`, which has not been declared **public**, is not imported and therefore not available for creating its objects.

• Example

```
• Package P1;
• public class X
• {
• Body of X
• }
• Class Y
• {
• Body of Y
• }
```

Interface in Java

- The interface in Java is a *mechanism to achieve abstraction*.
- There can be only abstract methods in the Java interface, not method body.
- It is used to achieve abstraction and multiple inheritance in Java.
- In other words, you can say that interfaces can have abstract methods and variables. It cannot have a method body.

Why use Java interface?

There are mainly three reasons to use interface. They are :

- It is used to achieve abstraction.
- By interface, we can support the functionality of multiple inheritance.
- It can be used to achieve loose coupling.

How to declare an interface?

An interface is declared by using the interface keyword.

It provides total abstraction; means all the methods in an interface are declared with the empty body, and all the fields are public, static and final by default.

A class that implements an interface must implement all the methods declared in the interface.

Syntax:

```
1.interface <interface_name>{
2.
3. // declare constant fields
4. // declare methods that abstract
5. // by default.
6.}
```

Notes on Interfaces:

- It cannot be used to create objects (in the example above, it is not possible to create an "Animal" object in the MyMainClass)
- Interface methods does not have a body - the body is provided by the "implement" class
- On implementation of an interface, you must override all of its methods

EXTENDING IN JAVA

- The extends keyword extends a class (indicates that a class is inherited from another class).
- In Java, it is possible to inherit attributes and methods from one class to another. We group the "inheritance concept" into two categories:
- **subclass** (child) - the class that inherits from another class
- **superclass** (parent) - the class being inherited from
- To inherit from a class, use the extends keyword.

Constants into one interface

- Example
- Interface A
- {
- int X =10;
- int Y = 20;
- }
- Interface B extends A
- {
- void show();

Extend various interfaces together by a single interface

- Interface A{
- int X=20;
- int Y=30;}
- Interface B extends A{
- void show();}
- Interface C extends A,B
- {
-
- }

- Example
- Interface A{
- void funcA();}
- Interface B extends A{
- void funcB();}
- Class C implements B{
- Public void funcA(){
- system.out.println("This is funcA");}
- Public void funcB(){
- System.out.println("This is funcB");}
- Public class Demo{
- Public static void main(string args[]){

- C Obj = new C();
- Obj.funcA();
- Obj.funcB();
- })

Example:

The Car class (subclass) inherits the attributes and methods from the Vehicle class (superclass):

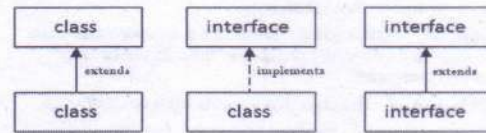
```
class Vehicle {
    protected String brand = "Ford"; // Vehicle attribute
    public void honk() { // Vehicle method
        System.out.println("Tuut, tuut!");
    }
}

class Car extends Vehicle {
    private String modelName = "Mustang"; // Car attribute
    public static void main(String[] args) {
        // Create a myCar object
        Car myCar = new Car();
        // Call the honk() method (from the Vehicle class) on the myCar object
        myCar.honk();
        // Display the value of the brand attribute (from the Vehicle class) and the
        value of the modelName from the Car class
        System.out.println(myCar.brand + " " + myCar.modelName);
    }
}
```

Notes on Interfaces:

- Interface methods are by default abstract and public.
- Interface attributes are by default public, static and final.
- An interface cannot contain a constructor (as it cannot be used to create objects)

The relationship between classes and interfaces



Java Interface Example:

In this example, the Printable interface has only one method, and its implementation is provided in the A6 class.

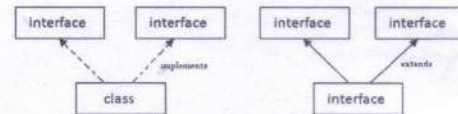
```

• interface Printable{
• void print();
• }
• class A6 implements Printable{
• public void print(){System.out.println("Hello");
• }
• }
• public static void main(String args[]){
• A6 obj = new A6();
• obj.print();
• }
• }
    
```

Output:
Hello

Multiple inheritance in Java by interface

- If a class implements multiple interfaces, or an interface extends multiple interfaces, it is known as multiple inheritance.



Multiple Inheritance in Java

Example:

```

• interface Printable{
• void print();
• }
• interface Showable{
• void show();
• }
• class A7 implements Printable,Showable{
• public void print(){System.out.println("Hello");}
• public void show(){System.out.println("Welcome");}
• }
• public static void main(String args[]){
• A7 obj = new A7();
• obj.print();
• obj.show();
• }
• }
    
```

Output:Hello
Welcome

Interface inheritance

```

• interface Printable{
• void print();
• }
• interface Showable extends Printable{
• void show();
• }
• class TestInterface4 implements Showable{
• public void print(){System.out.println("Hello");}
• public void show(){System.out.println("Welcom
e");}
• }
• public static void main(String args[]){
• TestInterface4 obj = new TestInterface4();
• obj.print();
• obj.show();
• }
• }
    
```

Output:
Hello
Welcome



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KINGSON T [19107016] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

HOD



DEAN-ACADEMICS

PRINCIPAL



HINDUSTHAN *College of Engineering and Technology*

(An Autonomous Institution)

Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

MOHAMED FAHAD M [19107017] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

HOD



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HINDUSTHAN *College of Engineering and Technology*

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Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

MOHAMMED HARISH S [19107018] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

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HINDUSTHAN *College of Engineering and Technology*

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Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

NANDHA KUMARAN R [19107019] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

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Value Added Course

This is to certify that

PONSUGANTHI S [19107020] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

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Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

ROBIN MATHEW R [19107021] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

HOD



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Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

SAHAYA SIFIN A [19107022] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

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Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

SELVAM M [19107023] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

SHANTHOSH KUMAR M [19107024] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

SIVA YOGESHWAR J [19107025] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

SORNALATHA N [19107026] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

SUDHARSON R [19107027] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

ELAVARASAN N [19107028] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

NIKIL AKASH S [19107801] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

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Value Added Course

This is to certify that

NOBEL DHANARAJ S [19107802] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

SARVESH KUMAR R [19107803] of II Year EIE

has successfully completed the course

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Value Added Course

This is to certify that

SRINIVASAN T [19107804] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

VENGADESAN R [19107805] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

ABDUL KADHER A [19107001] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

ADHITHAN A [19107002] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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This is to certify that

ALGO RICHWIN A [19107003] of II Year EIE

has successfully completed the course

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Value Added Course

This is to certify that

ANTRO GODWIN J [19107004] of II Year EIE

has successfully completed the course

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Value Added Course

This is to certify that

AROCKIA PENILAN W [19107005] of II Year EIE

has successfully completed the course

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Value Added Course

This is to certify that

BALAKRISHNAN B [19107006] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

BHUPATHI V [19107007] of II Year EIE

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Value Added Course

This is to certify that

DEVASENAN A [19107008] of II Year EIE

has successfully completed the course

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Value Added Course

This is to certify that

EISHWARAN J [19107009] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

GOKUL RAJA S V [19107010] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

HARIHARAN M [19107011] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

HARSHAVARDHAN G [19107012] of II Year EIE

has successfully completed the course

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Value Added Course

This is to certify that

JEEVAN KARTHIK A [19107013] of II Year EIE

has successfully completed the course

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Value Added Course

This is to certify that

KABILAN P [19107014] of II Year EIE

has successfully completed the course

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Value Added Course

This is to certify that

KEERTHICK RAJU K [19107015] of II Year EIE

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Value Added Course

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KINGSON T [19107016] of II Year EIE

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MOHAMED FAHAD M [19107017] of II Year EIE

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MOHAMMED HARISH S [19107018] of II Year EIE

has successfully completed the course

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NANDHA KUMARAN R [19107019] of II Year EIE

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Value Added Course

This is to certify that

PONSUGANTHI S [19107020] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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HINDUSTHAN *College of Engineering and Technology*

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Value Added Course

This is to certify that

ROBIN MATHEW R [19107021] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

SAHAYA SIFIN A [19107022] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

SELVAM M [19107023] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

SHANTHOSH KUMAR M [19107024] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

SIVA YOGESHWAR J [19107025] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

SORNALATHA N [19107026] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

SUDHARSON R [19107027] of II Year EIE

has successfully completed the course

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Value Added Course

This is to certify that

ELAVARASAN N [19107028] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

NIKIL AKASH S [19107801] of II Year EIE

has successfully completed the course

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This is to certify that

NOBEL DHANARAJ S [19107802] of II Year EIE

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This is to certify that

SARVESH KUMAR R [19107803] of II Year EIE

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Value Added Course

This is to certify that

SRINIVASAN T [19107804] of II Year EIE

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Value Added Course

This is to certify that

VENGADESAN R [19107805] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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This is to certify that

SELVAM M [19107023] of II Year EIE

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Value Added Course

This is to certify that

ABDUL KADHER A [19107001] of II Year EIE

has successfully completed the course

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Value Added Course

This is to certify that

ADHITHAN A [19107002] of II Year EIE

has successfully completed the course

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Value Added Course

This is to certify that

ALGO RICHWIN A [19107003] of II Year EIE

has successfully completed the course

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Value Added Course

This is to certify that

ANTRO GODWIN J [19107004] of II Year EIE

has successfully completed the course

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AROCKIA PENILAN W [19107005] of II Year EIE

has successfully completed the course

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This is to certify that

BALAKRISHNAN B [19107006] of II Year EIE

has successfully completed the course

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This is to certify that

BHUPATHI V [19107007] of II Year EIE

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DEVASENAN A [19107008] of II Year EIE

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Value Added Course

This is to certify that

EISHWARAN J [19107009] of II Year EIE

has successfully completed the course

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DEAN-ACADEMICS

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HINDUSTHAN *College of Engineering and Technology*

(An Autonomous Institution)

Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

GOKUL RAJA S V [19107010] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

HOD



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HINDUSTHAN *College of Engineering and Technology*

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Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

HARIHARAN M [19107011] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

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HARSHAVARDHAN G [19107012] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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JEEVAN KARTHIK A [19107013] of II Year EIE

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KEERTHICK RAJU K [19107015] of II Year EIE

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KINGSON T [19107016] of II Year EIE

has successfully completed the course

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MOHAMED FAHAD M [19107017] of II Year EIE

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MOHAMMED HARISH S [19107018] of II Year EIE

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NANDHA KUMARAN R [19107019] of II Year EIE

has successfully completed the course

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Value Added Course

This is to certify that

PONSUGANTHI S [19107020] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

ROBIN MATHEW R [19107021] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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This is to certify that

SAHAYA SIFIN A [19107022] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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This is to certify that

SELVAM M [19107023] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

SHANTHOSH KUMAR M [19107024] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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SIVA YOGESHWAR J [19107025] of II Year EIE

has successfully completed the course

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Value Added Course

This is to certify that

SORNALATHA N [19107026] of II Year EIE

has successfully completed the course

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This is to certify that

SUDHARSON R [19107027] of II Year EIE

has successfully completed the course

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Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

ELAVARASAN N [19107028] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

NIKIL AKASH S [19107801] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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NOBEL DHANARAJ S [19107802] of II Year EIE

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SARVESH KUMAR R [19107803] of II Year EIE

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Value Added Course

This is to certify that

SRINIVASAN T [19107804] of II Year EIE

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VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

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VENGADESAN R [19107805] of II Year EIE

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Value Added Course

This is to certify that

ABDUL KADHER A [19107001] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

ADHITHAN A [19107002] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

ALGO RICHWIN A [19107003] of II Year EIE

has successfully completed the course

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Value Added Course

This is to certify that

ANTRO GODWIN J [19107004] of II Year EIE

has successfully completed the course

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Value Added Course

This is to certify that

AROCKIA PENILAN W [19107005] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

BALAKRISHNAN B [19107006] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

BHUPATHI V [19107007] of II Year EIE

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Value Added Course

This is to certify that

DEVASENAN A [19107008] of II Year EIE

has successfully completed the course

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This is to certify that

EISHWARAN J [19107009] of II Year EIE

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GOKUL RAJA S V [19107010] of II Year EIE

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HARIHARAN M [19107011] of II Year EIE

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JEEVAN KARTHIK A [19107013] of II Year EIE

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KABILAN P [19107014] of II Year EIE

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KEERTHICK RAJU K [19107015] of II Year EIE

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KINGSON T [19107016] of II Year EIE

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MOHAMMED HARISH S [19107018] of II Year EIE

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NANDHA KUMARAN R [19107019] of II Year EIE

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PONSUGANTHI S [19107020] of II Year EIE

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Value Added Course

This is to certify that

ROBIN MATHEW R [19107021] of II Year EIE

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SAHAYA SIFIN A [19107022] of II Year EIE

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SELVAM M [19107023] of II Year EIE

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SHANTHOSH KUMAR M [19107024] of II Year EIE

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SIVA YOGESHWAR J [19107025] of II Year EIE

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SORNALATHA N [19107026] of II Year EIE

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SUDHARSON R [19107027] of II Year EIE

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ELAVARASAN N [19107028] of II Year EIE

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VENGADESAN R [19107805] of II Year EIE

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ABDUL KADHER A [19107001] of II Year EIE

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ADHITHAN A [19107002] of II Year EIE

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ALGO RICHWIN A [19107003] of II Year EIE

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This is to certify that

ANTRO GODWIN J [19107004] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

HOD



DEAN-ACADEMICS

PRINCIPAL



HINDUSTHAN *College of Engineering and Technology*

(An Autonomous Institution)

Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

AROCKIA PENILAN W [19107005] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

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BALAKRISHNAN B [19107006] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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This is to certify that

BHUPATHI V [19107007] of II Year EIE

has successfully completed the course

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DEVASENAN A [19107008] of II Year EIE

has successfully completed the course

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EISHWARAN J [19107009] of II Year EIE

has successfully completed the course

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GOKUL RAJA S V [19107010] of II Year EIE

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HARIHARAN M [19107011] of II Year EIE

has successfully completed the course

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HARSHAVARDHAN G [19107012] of II Year EIE

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JEEVAN KARTHIK A [19107013] of II Year EIE

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KEERTHICK RAJU K [19107015] of II Year EIE

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KINGSON T [19107016] of II Year EIE

has successfully completed the course

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MOHAMED FAHAD M [19107017] of II Year EIE

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MOHAMMED HARISH S [19107018] of II Year EIE

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This is to certify that

NANDHA KUMARAN R [19107019] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

PONSUGANTHI S [19107020] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

ROBIN MATHEW R [19107021] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

SAHAYA SIFIN A [19107022] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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This is to certify that

SELVAM M [19107023] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

SHANTHOSH KUMAR M [19107024] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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This is to certify that

SIVA YOGESHWAR J [19107025] of II Year EIE

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VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

SORNALATHA N [19107026] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

SUDHARSON R [19107027] of II Year EIE

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VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

ELAVARASAN N [19107028] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

NIKIL AKASH S [19107801] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

NOBEL DHANARAJ S [19107802] of II Year EIE

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Value Added Course

This is to certify that

SARVESH KUMAR R [19107803] of II Year EIE

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Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

SRINIVASAN T [19107804] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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DEAN-ACADEMICS

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Value Added Course

This is to certify that

VENGADESAN R [19107805] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

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Value Added Course

This is to certify that

ABDUL KADHER A [19107001] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

ADHITHAN A [19107002] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

ALGO RICHWIN A [19107003] of II Year EIE

has successfully completed the course

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DEAN-ACADEMICS

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Value Added Course

This is to certify that

ANTRO GODWIN J [19107004] of II Year EIE

has successfully completed the course

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AROCKIA PENILAN W [19107005] of II Year EIE

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BALAKRISHNAN B [19107006] of II Year EIE

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BHUPATHI V [19107007] of II Year EIE

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DEVASENAN A [19107008] of II Year EIE

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EISHWARAN J [19107009] of II Year EIE

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GOKUL RAJA S V [19107010] of II Year EIE

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HARIHARAN M [19107011] of II Year EIE

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HARSHAVARDHAN G [19107012] of II Year EIE

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JEEVAN KARTHIK A [19107013] of II Year EIE

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KABILAN P [19107014] of II Year EIE

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KEERTHICK RAJU K [19107015] of II Year EIE

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KINGSON T [19107016] of II Year EIE

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MOHAMMED HARISH S [19107018] of II Year EIE

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NANDHA KUMARAN R [19107019] of II Year EIE

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This is to certify that

PONSUGANTHI S [19107020] of II Year EIE

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Value Added Course

This is to certify that

ROBIN MATHEW R [19107021] of II Year EIE

has successfully completed the course

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This is to certify that

SAHAYA SIFIN A [19107022] of II Year EIE

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This is to certify that

SELVAM M [19107023] of II Year EIE

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This is to certify that

SHANTHOSH KUMAR M [19107024] of II Year EIE

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This is to certify that

NIKIL AKASH S [19107801] of II Year EIE

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This is to certify that

NOBEL DHANARAJ S [19107802] of II Year EIE

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This is to certify that

SARVESH KUMAR R [19107803] of II Year EIE

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DEAN-ACADEMICS

PRINCIPAL



HINDUSTHAN *College of Engineering and Technology*

(An Autonomous Institution)

Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

SRINIVASAN T [19107804] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

HOD



DEAN-ACADEMICS

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HINDUSTHAN *College of Engineering and Technology*

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Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

VENGADESAN R [19107805] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

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HINDUSTHAN *College of Engineering and Technology*

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Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

ABDUL KADHER A [19107001] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

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HINDUSTHAN *College of Engineering and Technology*

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Value Added Course

This is to certify that

ADHITHAN A [19107002] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

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This is to certify that

ALGO RICHWIN A [19107003] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

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This is to certify that

ANTRO GODWIN J [19107004] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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AROCKIA PENILAN W [19107005] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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This is to certify that

BALAKRISHNAN B [19107006] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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This is to certify that

BHUPATHI V [19107007] of II Year EIE

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DEVASENAN A [19107008] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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EISHWARAN J [19107009] of II Year EIE

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GOKUL RAJA S V [19107010] of II Year EIE

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HARIHARAN M [19107011] of II Year EIE

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HARSHAVARDHAN G [19107012] of II Year EIE

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JEEVAN KARTHIK A [19107013] of II Year EIE

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This is to certify that

KABILAN P [19107014] of II Year EIE

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KEERTHICK RAJU K [19107015] of II Year EIE

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This is to certify that

KINGSON T [19107016] of II Year EIE

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MOHAMED FAHAD M [19107017] of II Year EIE

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Value Added Course

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MOHAMMED HARISH S [19107018] of II Year EIE

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Value Added Course

This is to certify that

NANDHA KUMARAN R [19107019] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Value Added Course

This is to certify that

PONSUGANTHI S [19107020] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

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Value Added Course

This is to certify that

ROBIN MATHEW R [19107021] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

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Value Added Course

This is to certify that

SAHAYA SIFIN A [19107022] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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This is to certify that

SELVAM M [19107023] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

SHANTHOSH KUMAR M [19107024] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

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HINDUSTHAN *College of Engineering and Technology*

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Value Added Course

This is to certify that

SIVA YOGESHWAR J [19107025] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

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HINDUSTHAN *College of Engineering and Technology*

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Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

SORNALATHA N [19107026] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

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DEAN-ACADEMICS

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HINDUSTHAN *College of Engineering and Technology*

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Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

SUDHARSON R [19107027] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

HOD



DEAN-ACADEMICS

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HINDUSTHAN *College of Engineering and Technology*

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Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

ELAVARASAN N [19107028] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

HOD



DEAN-ACADEMICS

PRINCIPAL



HINDUSTHAN *College of Engineering and Technology*

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Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

NIKIL AKASH S [19107801] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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HOD



DEAN-ACADEMICS

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HINDUSTHAN *College of Engineering and Technology*

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Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

NOBEL DHANARAJ S [19107802] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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HINDUSTHAN *College of Engineering and Technology*

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Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

SARVESH KUMAR R [19107803] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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This is to certify that

SRINIVASAN T [19107804] of II Year EIE

has successfully completed the course

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Value Added Course

This is to certify that

VENGADESAN R [19107805] of II Year EIE

has successfully completed the course

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ABDUL KADHER A [19107001] of II Year EIE

has successfully completed the course

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HINDUSTHAN

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ADHITHAN A [19107002] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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HINDUSTHAN *College of Engineering and Technology*

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Value Added Course

This is to certify that

ALGO RICHWIN A [19107003] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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HINDUSTHAN *College of Engineering and Technology*

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Value Added Course

This is to certify that

ANTRO GODWIN J [19107004] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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HINDUSTHAN *College of Engineering and Technology*

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Value Added Course

This is to certify that

AROCKIA PENILAN W [19107005] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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HINDUSTHAN *College of Engineering and Technology*

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Value Added Course

This is to certify that

BALAKRISHNAN B [19107006] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

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This is to certify that

BHUPATHI V [19107007] of II Year EIE

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This is to certify that

DEVASENAN A [19107008] of II Year EIE

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VACEIE04 - Object Oriented Programming Using JAVA

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This is to certify that

EISHWARAN J [19107009] of II Year EIE

has successfully completed the course

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This is to certify that

GOKUL RAJA S V [19107010] of II Year EIE

has successfully completed the course

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HARIHARAN M [19107011] of II Year EIE

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HARSHAVARDHAN G [19107012] of II Year EIE

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JEEVAN KARTHIK A [19107013] of II Year EIE

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KABILAN P [19107014] of II Year EIE

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KEERTHICK RAJU K [19107015] of II Year EIE

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This is to certify that

KINGSON T [19107016] of II Year EIE

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MOHAMMED HARISH S [19107018] of II Year EIE

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NANDHA KUMARAN R [19107019] of II Year EIE

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PONSUGANTHI S [19107020] of II Year EIE

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This is to certify that

ROBIN MATHEW R [19107021] of II Year EIE

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SAHAYA SIFIN A [19107022] of II Year EIE

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This is to certify that

SELVAM M [19107023] of II Year EIE

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Value Added Course

This is to certify that

SHANTHOSH KUMAR M [19107024] of II Year EIE

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SIVA YOGESHWAR J [19107025] of II Year EIE

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Value Added Course

This is to certify that

SORNALATHA N [19107026] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

HOD



DEAN-ACADEMICS

PRINCIPAL



HINDUSTHAN *College of Engineering and Technology*

(An Autonomous Institution)

Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

SUDHARSON R [19107027] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

HOD



DEAN-ACADEMICS

PRINCIPAL



HINDUSTHAN *College of Engineering and Technology*

(An Autonomous Institution)

Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

ELAVARASAN N [19107028] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

HOD



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(An Autonomous Institution)

Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

NIKIL AKASH S [19107801] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

HOD



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HINDUSTHAN *College of Engineering and Technology*

(An Autonomous Institution)

Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

NOBEL DHANARAJ S [19107802] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

HOD



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PRINCIPAL



HINDUSTHAN *College of Engineering and Technology*

(An Autonomous Institution)

Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

SARVESH KUMAR R [19107803] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

HOD



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HINDUSTHAN *College of Engineering and Technology*

(An Autonomous Institution)

Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

SRINIVASAN T [19107804] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

HOD



DEAN-ACADEMICS

PRINCIPAL



HINDUSTHAN *College of Engineering and Technology*

(An Autonomous Institution)

Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

VENGADESAN R [19107805] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

HOD



DEAN-ACADEMICS

PRINCIPAL



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(An Autonomous Institution)

Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

NOBEL DHANARAJ S [19107802] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

HOD



DEAN-ACADEMICS

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(An Autonomous Institution)

Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032.

Value Added Course

This is to certify that

SARVESH KUMAR R [19107803] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

HOD



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Value Added Course

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SRINIVASAN T [19107804] of II Year EIE

has successfully completed the course

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for the period of 30 hours during the EVEN semester of the academic year 2020-2021

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Value Added Course

This is to certify that

VENGADESAN R [19107805] of II Year EIE

has successfully completed the course

VACEIE04 - Object Oriented Programming Using JAVA

for the period of 30 hours during the EVEN semester of the academic year 2020-2021

HOD



DEAN-ACADEMICS

PRINCIPAL

Food Technology




Hindusthan College of Engineering and Technology

(An Autonomous Institution, Affiliated to Anna University, Chennai
Approved by AICTE, New Delhi & Accredited by NAAC with 'A' Grade)
Valley Campus, Pollachi Highways, Coimbatore, Tamilnadu.



24.05.2021

This is to inform that a Value Added Course on 'Food Product Development' will be conducted for II year Food Technology students (2019 batch) from 27.05.2021 to 14.06.2021 in online mode.


Head of the Department
Food Technology

File

1. Dean office
2. Department file



Hindusthan College of Engineering and Technology

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Approved by AICTE, New Delhi & Accredited by NAAC with 'A' Grade)
Valley Campus, Pollachi Highways, Coimbatore, Tamilnadu.



Value Added Course

Food Product Development Course Material Link

Topic	Link
New Product Development	https://drive.google.com/file/d/1qv4Lg3CHKZfzi7byKmL0Pv3SOJHDAabv/view
New Product Development Process	https://drive.google.com/file/d/1crc4X9QHKBew_G61Mk6r0Y-fZVLsvo0P/view
Case Study	https://drive.google.com/file/d/1HYyPaidJPdIK3z7XryG5Bs0ylcF4zAsU/view
Selection of Raw materials	https://drive.google.com/file/d/1nCmk4VXOgd1P8GX6bX23kEUKm-Sxf6j_/view
Stages of Product Development	https://drive.google.com/file/d/1Fpl.YqVUvqOd_SwXkrY91hMzVj6qmMNG4/view
Plant Layout	https://drive.google.com/file/d/1rjs3uQx4opnPQDc994HrTdhQuh7cQhxxk/view
Shelf life Estimation	https://drive.google.com/file/d/1BGqQ88Vc9k_KGeUrXj6q3jQRSrew9IRf/view

Batch - 2019 - 2023.

Course coordinator - Ms. G. Nagarwari.


Course Coordinator


Head of the Department

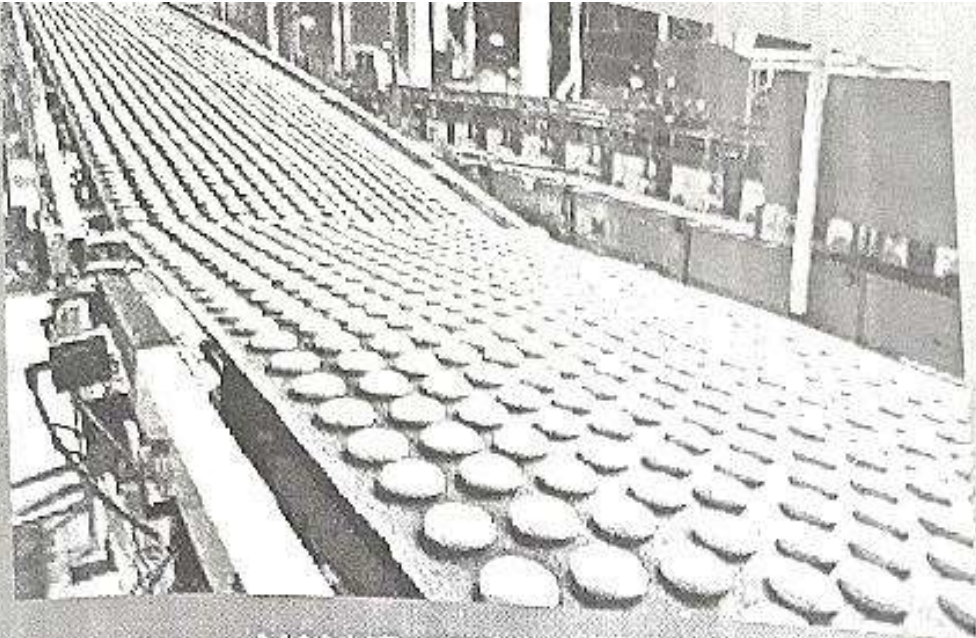
Sl. No.	Course name	Student Register Number	Student Name	Year of Studying	Department	Section	Photo (Optional)	Academic Year	SEM	Batch	Attendance Percentage	Start Date(DD-MM-YYYY)	End Date (DD-MM-YYYY)
	Food Product Development	19113001	AFRIN M A	II Year	FT	None		2020 - 2021	Even	2019-2023	100	27-05-2021	14-06-2021
	Food Product Development	19113002	AHMED BASIL P A	II Year	FT	None		2020 - 2021	Even	2019-2023	90	27-05-2021	14-06-2021
	Food Product Development	19113003	AKASH V	II Year	FT	None		2020 - 2021	Even	2019-2023	85	27-05-2021	14-06-2021
	Food Product Development	19113004	AKSHAY M S	II Year	FT	None		2020 - 2021	Even	2019-2023	100	27-05-2021	14-06-2021
	Food Product Development	19113005	ALBIN GEORGE	II Year	FT	None		2020 - 2021	Even	2019-2023	90	27-05-2021	14-06-2021
	Food Product Development	19113006	ANITTA JOY	II Year	FT	None		2020 - 2021	Even	2019-2023	100	27-05-2021	14-06-2021
	Food Product Development	19113007	ANJANA SREEDHARAN	II Year	FT	None		2020 - 2021	Even	2019-2023	71	27-05-2021	14-06-2021
	Food Product Development	19113008	ASHID JOHN BENNY	II Year	FT	None		2020 - 2021	Even	2019-2023	81	27-05-2021	14-06-2021
	Food Product Development	19113010	ASHIK.SJ	II Year	FT	None		2020 - 2021	Even	2019-2023	100	27-05-2021	14-06-2021
	Food Product Development	19113011	ASKAR NAZAR	II Year	FT	None		2020 - 2021	Even	2019-2023	90	27-05-2021	14-06-2021
	Food Product Development	19113012	ASWIN PAVITHRAN T M	II Year	FT	None		2020 - 2021	Even	2019-2023	81	27-05-2021	14-06-2021
	Food Product Development	19113013	BHARATH KUMAR M	II Year	FT	None		2020 - 2021	Even	2019-2023	90	27-05-2021	14-06-2021
	Food Product Development	19113014	BHAVYA A R	II Year	FT	None		2020 - 2021	Even	2019-2023	71	27-05-2021	14-06-2021
	Food Product Development	19113015	CHRISTO M	II Year	FT	None		2020 - 2021	Even	2019-2023	100	27-05-2021	14-06-2021
	Food Product Development	19113016	DEEPAK KRISHNA D	II Year	FT	None		2020 - 2021	Even	2019-2023	100	27-05-2021	14-06-2021
	Food Product Development	19113017	GOKUL B	II Year	FT	None		2020 - 2021	Even	2019-2023	71	27-05-2021	14-06-2021
	Food Product Development	19113018	HARI PRASADH D	II Year	FT	None		2020 - 2021	Even	2019-2023	100	27-05-2021	14-06-2021
	Food Product Development	19113019	IBITHISHAS AHAMED V K	II Year	FT	None		2020 - 2021	Even	2019-2023	81	27-05-2021	14-06-2021
	Food Product Development	19113020	JASEENA K	II Year	FT	None		2020 - 2021	Even	2019-2023	50	27-05-2021	14-06-2021
	Food Product Development	19113021	JEFFIN JOY	II Year	FT	None		2020 - 2021	Even	2019-2023	100	27-05-2021	14-06-2021
	Food Product Development	19113022	JESTENA MARIYAM JOY	II Year	FT	None		2020 - 2021	Even	2019-2023	100	27-05-2021	14-06-2021
	Food Product Development	19113023	JITHIN K GEGO	II Year	FT	None		2020 - 2021	Even	2019-2023	100	27-05-2021	14-06-2021
	Food Product Development	19113024	JOHN SAJAN	II Year	FT	None		2020 - 2021	Even	2019-2023	100	27-05-2021	14-06-2021
	Food Product Development	19113025	KAAVIYA K	II Year	FT	None		2020 - 2021	Even	2019-2023	100	27-05-2021	14-06-2021
	Food Product Development	19113026	KANISHKHA G	II Year	FT	None		2020 - 2021	Even	2019-2023	90	27-05-2021	14-06-2021
	Food Product Development	19113027	KATHIRAVAN K	II Year	FT	None		2020 - 2021	Even	2019-2023	100	27-05-2021	14-06-2021

Food Product Development	19113028	KISHORE M	II Year	FT	None	2020 - 2021	Even	2019-2023	100	27-05-2021	14-06-2021
Food Product Development	19113029	LAVANYA P	II Year	FT	None	2020 - 2021	Even	2019-2023	100	27-05-2021	14-06-2021
Food Product Development	19113030	LEON GEORGE	II Year	FT	None	2020 - 2021	Even	2019-2023	71	27-05-2021	14-06-2021
Food Product Development	19113031	M P MUHAMMED RIZWAN	II Year	FT	None	2020 - 2021	Even	2019-2023	62	27-05-2021	14-06-2021
Food Product Development	19113032	MACHAVARAPU DHARSHITH KUMAR	II Year	FT	None	2020 - 2021	Even	2019-2023	100	27-05-2021	14-06-2021
Food Product Development	19113033	MADHAN P	II Year	FT	None	2020 - 2021	Even	2019-2023	81	27-05-2021	14-06-2021
Food Product Development	19113034	MANJIMA SHAJI	II Year	FT	None	2020 - 2021	Even	2019-2023	90	27-05-2021	14-06-2021
Food Product Development	19113035	MEJIN M	II Year	FT	None	2020 - 2021	Even	2019-2023	81	27-05-2021	14-06-2021
Food Product Development	19113036	MOHAMED ASHIK T	II Year	FT	None	2020 - 2021	Even	2019-2023	70	27-05-2021	14-06-2021
Food Product Development	19113037	MOHAMMED SADATH E	II Year	FT	None	2020 - 2021	Even	2019-2023	90	27-05-2021	14-06-2021
Food Product Development	19113038	MOHAMMED THANVEER C I	II Year	FT	None	2020 - 2021	Even	2019-2023	81	27-05-2021	14-06-2021
Food Product Development	19113040	NAZIM BASHEER	II Year	FT	None	2020 - 2021	Even	2019-2023	90	27-05-2021	14-06-2021
Food Product Development	19113041	NESAVARNAN S	II Year	FT	None	2020 - 2021	Even	2019-2023	81	27-05-2021	14-06-2021
Food Product Development	19113042	NIVIDHARAN S	II Year	FT	None	2020 - 2021	Even	2019-2023	81	27-05-2021	14-06-2021
Food Product Development	19113043	NOBLE PAUL	II Year	FT	None	2020 - 2021	Even	2019-2023	81	27-05-2021	14-06-2021
Food Product Development	19113044	NOOR IMRAN M	II Year	FT	None	2020 - 2021	Even	2019-2023	71	27-05-2021	14-06-2021
Food Product Development	19113045	PRAVEEN V	II Year	FT	None	2020 - 2021	Even	2019-2023	100	27-05-2021	14-06-2021
Food Product Development	19113046	RAJKUMAR A	II Year	FT	None	2020 - 2021	Even	2019-2023	90	27-05-2021	14-06-2021
Food Product Development	19113047	RANEES V V	II Year	FT	None	2020 - 2021	Even	2019-2023	62	27-05-2021	14-06-2021
Food Product Development	19113048	RENI NEZRIN N	II Year	FT	None	2020 - 2021	Even	2019-2023	90	27-05-2021	14-06-2021
Food Product Development	19113049	SABARIGANESH M	II Year	FT	None	2020 - 2021	Even	2019-2023	100	27-05-2021	14-06-2021
Food Product Development	19113050	SANTHOSH M	II Year	FT	None	2020 - 2021	Even	2019-2023	90	27-05-2021	14-06-2021
Food Product Development	19113051	SASI REKHA P	II Year	FT	None	2020 - 2021	Even	2019-2023	100	27-05-2021	14-06-2021
Food Product Development	19113052	SHARUKKHAN S	II Year	FT	None	2020 - 2021	Even	2019-2023	100	27-05-2021	14-06-2021
Food Product Development	19113053	SOWMYA S	II Year	FT	None	2020 - 2021	Even	2019-2023	100	27-05-2021	14-06-2021
Food Product Development	19113054	SREELAKSHMI	II Year	FT	None	2020 - 2021	Even	2019-2023	71	27-05-2021	14-06-2021
Food Product Development	19113055	SUBASH CHANDRU M	II Year	FT	None	2020 - 2021	Even	2019-2023	90	27-05-2021	14-06-2021

Food Product Development	19113056	VISVAJIT M	II Year	FT	None		2020 - 2021	Even	2019-2023	100	27-05-2021	14-06-2021
Food Product Development	19113057	YADHU KRISHNAN C R	II Year	FT	None		2020 - 2021	Even	2019-2023	100	27-05-2021	14-06-2021
Food Product Development	19113058	SARAVANA RAJ S	II Year	FT	None		2020 - 2021	Even	2019-2023	50	27-05-2021	14-06-2021
Food Product Development	19113059	MUHAMMAD SAHAD	II Year	FT	None		2020 - 2021	Even	2019-2023	52	27-05-2021	14-06-2021
Food Product Development	19113060	MUHAMMED SAIFULLA M V	II Year	FT	None		2020 - 2021	Even	2019-2023	81	27-05-2021	14-06-2021

Signature
Course coordinator

Head of the Department



VALUE ADDED COURSE ON
"FOOD PRODUCT DEVELOPMENT"

27th MAY TO 14th JUNE 2013

COURSE COORDINATOR:
Ms. NAGESWARI G. AP/FOOD TECHNOLOGY

DEPARTMENT OF FOOD TECHNOLOGY

PROPOSAL FOR VALUE ADDED COURSE
SUBMITTED TO THE PRINCIPAL THROUGH DEAN ACADEMICS



Hindusthan
College of Engineering and Technology

Gandhinagar, Hyderabad

COURSE OVERVIEW

Product development is the lifeblood of the food industry, from refining an established product range to developing completely new products. It is, however, a process fraught with risk that often ends in failure. Therefore, this Value-added course talks about the importance of developing a new product, understanding marketing characteristics, processes involved in new product development, cost effectiveness, methods of sensory evaluation and evaluation of shelf life.

AIM OF THE COURSE

This Value-added course is designed such that students understand the importance of developing a new product based on opportunities in market place, modifying the existing product, learn about life cycle of a product, processes involved in new product development, establishing process parameters for optimum quality of product, importance of cost effectiveness and sensory and shelf-life evaluation. As need for new food products are always growing, this course helps students to acquire knowledge to design and develop a new food product.

COURSE CONTENT

S. No	Topic	Contents
1.	Product development introduction	<ul style="list-style-type: none"> ❖ What is new product development? ❖ Importance of new product development ❖ Marketing characteristics of new products ❖ Product life cycle ❖ Opportunities in marketplace for new product development
2.	Design of new products	<ul style="list-style-type: none"> ❖ New product development process and activities ❖ Market oriented NPD methodologies
3.	Process parameters & standardization	<ul style="list-style-type: none"> ❖ Selection of materials/ingredients for specific purposes ❖ Establishing process parameters for optimum quality ❖ Modification of production for large scale ❖ Cost effectiveness
4.	Sensory and shelf-life evaluation	<ul style="list-style-type: none"> ❖ Sensory evaluation importance ❖ Methods of sensory evaluation ❖ Product stability ❖ Evaluation of shelf life ❖ Changes in sensory attributes and effects of environmental conditions
5.	Case study & Model project proposal	<ul style="list-style-type: none"> ❖ Students have to present a proposal to develop new products ❖ After completion of project within the time period, certificate will be awarded

DELIVERY PLAN

Timing: 9.30 AM to 11.00 AM & 11.30 AM to 1.00 PM

S.No	Title of the Content	Date	No. of Hours	Resource Person
1.	Product Development Introduction	27.05.2021	3	Ms Nageswari G AP/FT, HICET
2.	New product development process and activities	29.05.2021	3	Ms Nageswari G AP/FT, HICET
3.	Selection of materials/ingredients for specific purposes and Establishing process parameters for optimum quality	31.05.2021	3	Ms Neethu C S AP/FT, HICET
4.	Market oriented NPD methodologies	03.06.2021	3	Ms Mohana Priya P Associate Scientist R & D Foods, Cavinkare P Chennai
5.	Modification of production for large scale and Cost effectiveness	04.06.2021	3	Ms Srimagal A Executive Quality Analyst McRennett Foods Pvt Ltd Karappakam Chennai
6.	Sensory evaluation and Methods of sensory evaluation	05.06.2021	3	Mr Jony Blessing Manoj Assistant Professor Department of Food Technology Kongu Engineering College Perundurai
7.	Evaluation of shelf life and Changes in sensory attributes and effects of environmental conditions	07.06.2021	3	Dr Jeevarathinam G AP/FT, HICET
8.	Product stability and shelf-life	11.06.2021	3	Ms Vidyalakshmi Y Head of Quality Assurance Olam International Pvt Ltd Kerala
9.	Revision	12.06.2021	3	Ms Nageswari G AP/FT, HICET
10.	Case study & Model project proposal	14.06.2021	3	Ms Nageswari G AP/FT, HICET
Total Hours			30	

EXPERT SESSIONS (Outside of HICET)

S.No	Title of the Content	Date	No. of Hours	Details of the Expert
1.	Market oriented NPD methodologies	03.06.2021	3	Ms Mohana Priya P Associate Scientist R & D Foods, Cavinkare Pvt Ltd Chennai
2.	Modification of production for large scale and Cost effectiveness	04.06.2021	3	Ms Srimagal A Executive Quality Analyst McRennett Foods Pvt Ltd Karappakam Chennai
3.	Sensory evaluation and Methods of sensory evaluation	05.06.2021	3	Mr Jony Blessing Manoj Assistant Professor Department of Food Technology Kongu Engineering College Perundurai
4.	Product stability and shelf-life	11.06.2021	3	Ms Vidyalakshmi Y Head of Quality Assurance Olam International Pvt Ltd Kerala

Learning Outcomes

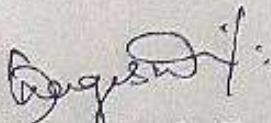
Upon completion of the course, students will be able to;

- ❖ Understand the importance of new product development
- ❖ Develop a new product
- ❖ Estimate cost effectiveness of a new product
- ❖ Conduct sensory evaluation
- ❖ Conduct shelf-life evaluation





Report for Value Added Course Organized

Name of the Faculty : Ms. Nageswari G	
Department : Food Technology	Designation : Assistant Professor
Nature of the Event : Value Added Course	
Category : -	
Title : Food Product Development	
Venue : Google Meet	
No. of Days : 10	Date : 27.05.2021 to 14.06.2021
Funded by : NIL	
No. of Participants : 58	Registration charges (if any) : NIL
Name and Designation of Chief Guest : Ms Mohana Priya P Associate Scientist R & D Foods, Cavinkare Pvt Ltd, Chennai	
Ms Srimagal A Executive Quality Analyst McRennett Foods Pvt Ltd Karappakam, Chennai	
Mr Jony Blessing Manoj Assistant Professor Department of Food Technology Kongu Engineering College, Perundurai	
Outcomes of the Event: Students were able to understand the importance of new product development, how to develop a new product, processes involved in new product development, how to estimate cost effectiveness of a new product, sensory evaluation and its methods, how to conduct shelf life evaluation, factors affecting shelf life of products. At the end of the course, students presented a model project proposal for food product development.	
Remarks and Feedback on the Event: Event had a good feedback of above satisfactory level.	
Plan of Implementing in HICET (if any) : NA	


Signature of the Faculty


HoB


Principal



VALUE ADDED COURSE ON
"FOOD PRODUCT DEVELOPMENT"
 27th MAY TO 14th JUNE 2011
 ONLINE COORDINATOR
 MR. SANKARANANDAN ANANDARAJU


DEPARTMENT OF FOOD TECHNOLOGY

TRAINING FOR VALUE ADDED COURSE
 SUBMITTED TO THE PERSONAL THROUGH IGAT ACADEMY

Hindusthan
 College of Engineering and Technology
 Valley Campus, Pallachi High Way, Salem District
 www.hindusthan.ac.in

Hindusthan
 College of Engineering and Technology
 (An ISO 9001:2008 Certified Institution)

DEPARTMENT OF
FOOD TECHNOLOGY




Ms Mohana Priya P
 R & D Foods

Valley Campus, Pallachi High Way, Salem District
 www.hindusthan.ac.in

Hindusthan
 College of Engineering and Technology
 (An ISO 9001:2008 Certified Institution)

DEPARTMENT OF
FOOD TECHNOLOGY



Ms Srimagal A
 Executive Director
 McRenna Foods Pvt. Ltd.

Valley Campus, Pallachi High Way, Salem District
 www.hindusthan.ac.in

Hindusthan
 College of Engineering and Technology
 (An ISO 9001:2008 Certified Institution)

DEPARTMENT OF
FOOD TECHNOLOGY




























Mr Jony Blessing Manoj
 Department of Food Technology
 Konge International Institute of Technology

Valley Campus, Pallachi High Way, Salem District
 www.hindusthan.ac.in

Photographs of Attendance

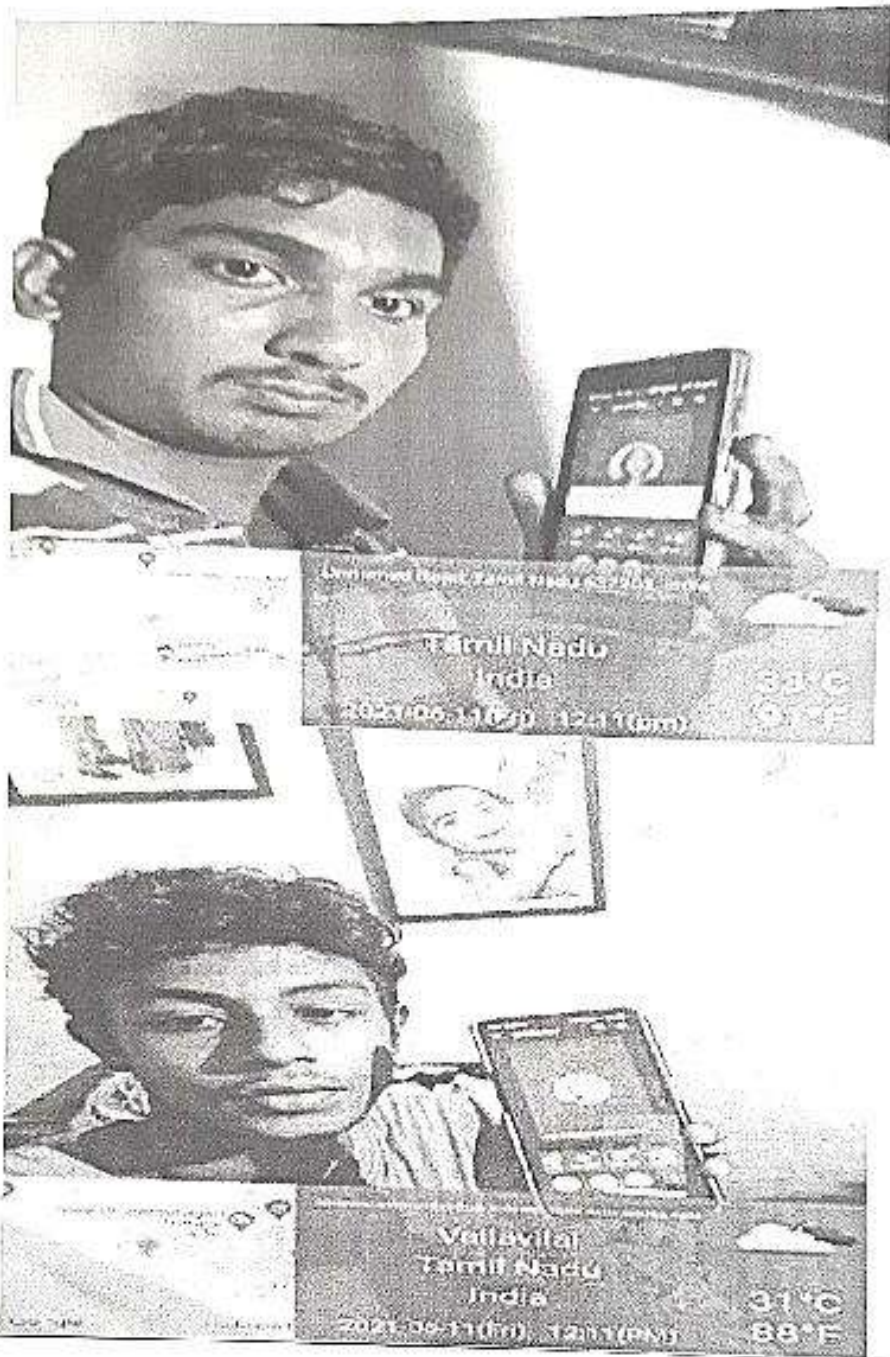
People

 Add people

-  19113006 HICET - STUDE...  
-  19113007 HICET - STUDE...  
-  19113008 HICET - STUDE...  
-  19113010 HICET - STUDEN...  
-  19113011 HICET - STUDEN...  
-  19113012 HICET - STUDEN...  
-  19113013 HICET - STUDEN...  
-  19113014 HICET - STUDEN...  



Photographs of Event



Causes for failure Product

- Poor product definition
- Does not meet consumer expectations
- Lack of money and vision to support the concept
- Promotional or positional failure
- Timing failure
- Technical failure
- Miscommunication (R&D, marketing, packaging, PR)



40:28 / 3:25:39

ija-ebfx-ipu (2021-06-04 at 02:48 GMT-7)


**EAT GOOD
FOOD**
AND
THANK YOU
FOR YOUR ATTENTION

©captainandpigeon.com



55:51 / 3:25:39



HINDUSTHAN
College of Engineering and Technology

(An Autonomous Institution)

Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu 641032

Value Added Course

This is to certify that

AFRIN M A (19113001) of FOOD TECHNOLOGY

has successfully completed the course on

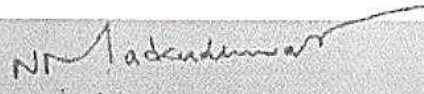
FOOD PRODUCT DEVELOPMENT

from 26.05.2021 to 14.06.2021 for the period of 30 hours

during the Even Semester of Academic Year 2020-21


HEAD




DEAN-ACADEMICS


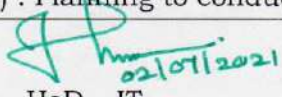
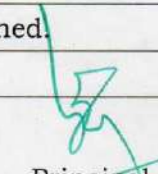

PRINCIPAL

Certificate Number - 2020E-FT-001

Information Technology Department



Report for Value Added Course Programme Organized

Name of the Faculty : 1.Dr.I.Jasmine Selvakumari Jeya 2.M.Sathish Kumar		
Department :IT	Designation :1. Associate Professor & Head 2. Assistant Professor	
Nature of the Event: Orientation Programme		
Category: College Level		
Title : Six Days Value Added Course Programme		
Venue : Hindusthan College of Engineering and Technology (Online Mode)		
No. of Days :6	Dates : From 31.05.2021 To 05.06.2021	
Funded by : -		
No. of Participants :109	Registration charges (if any) : -	
Name and Designation of Resource Person(s) :		
<p>Dr.D.Rasi Associate Professor, Department of IT, Hindusthan College of Engineering and Technology</p> <p>Ms.M.Indirani Assistant Professor, Department of IT, Hindusthan College of Engineering and Technology</p> <p>Ms.S.SuruthiChennadurai Senior Administrator/Network Security WIPRO</p>	<p>Mr.M.Dhinesh Senior Testing Engineer/Technical Business Analyst NOUS Infosystems</p> <p>Mr.M.Ganesan Assistant Professor, Department of IT, Hindusthan College of Engineering and Technology</p> <p>Ms.J.Uma Assistant Professor, Department of IT, Hindusthan College of Engineering and Technology</p>	
Outcomes of the Event :		
After completion of the course, the students will be able to		
<ul style="list-style-type: none"> • Use typical DDL, DML, DCL commands. • Use constraints, Nested and Join Queries, Views, Functions in database. • Identify and assemble Desktop Computer with all its hardware components. • Install different Operating System and all other application software. • Install Printer, Scanner and troubleshoot their faults. • Install and configure Windows Server. 		
Remarks and Feedback on the Event: All the sessions are informative and well planned.		
Plan of Implementing in HiCET (if any) : Planning to conduct every year		
 Signature of the Faculty [M. Sathish Kumar]	 HoD - IT	 Principal



Report for Value Added Course Programme Organized

Name of the Faculty : 1.Dr.I.Jasmine Selvakumari Jeya 2.M.Sathish Kumar		
Department :IT	Designation :1. Associate Professor & Head 2. Assistant Professor	
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Remarks and Feedback on the Event: All the sessions are informative and well planned.		
Plan of Implementing in HiCET (if any) : Planning to conduct every year		
Signature of the Faculty	HoD - IT	Principal

ABOUT THE PROGRAMME

The objective of this course provides a comprehensive introduction to the language of relational databases: Structured Query Language (SQL). Topics covered include: Entity-Relationship modeling, the Relational Model, the SQL language: data retrieval statements, data manipulation and data definition statements, to learn the use of nested, join queries, views and constraints, to build a strong understanding of database connectivity.

The objective of this course provides a comprehensive introduction to identify and understand Computer hardware components and assembly, to understand installation of OS and other softwares, to understand the installation of Windows server.

AIM OF THE PROGRAMME

This value added programme exemplify concepts related to Database using SQL and Computer H/W, S/W & Network Troubleshooting. The basic purpose of conducting this programme is to provide aspiring students with a fundamental knowledge of SQL and Networking. Students learn the basics of software and hardware integration, as well as how to effectively apply this in Database Connectivity and Configuring Network prototype of real time applications which improve the employability of students in their respective core.

CONTENTS OF SQL AND NETWORKING:

CONTENTS OF SQL:

- Installation of Database Engine like Oracle.
- Data Definition Language Operations, Create a Database, Using Database.
- Rename a Database, Drop Database, Create a Table, Add a Column to exiting Table.
- Modify an existing column, Rename a Column, Drop a Column, Truncatea Table.
- Data Manipulation Commands for inserting, deleting, updating and retrieving Tables.
- Data Control and Transaction Control statements.
- Database Querying,Simple Queries,Nested Queries,Sub Queries and Joins.
- Integrity Constraints,Views,Sequences,Synonyms.
- Procedures, Functions and Triggers.
- Database Connectivity with Java.

CONTENTS OF COMPUTER H/W, S/W & NETWORK TROUBLESHOOTING:

- Identifying Computer Hardware Devices, Identifying Computer Assembly
- Identifying external ports and interfacing
- PC Identifying Problems & Troubleshooting
- Operating System Installation: Printer: Installation / Troubleshooting
- Scanner Installation / Troubleshooting
- Introduction to LAN
- Study of Networking System using various network devices like Switches, Routers
- Preventive maintenance of a PC, Understanding CMOS
- Working with Backups and Archival Utilities
- Install and configure Windows Server
- Configure services like Active Directory, DNS and DHCP

Image of the Participation Certificate

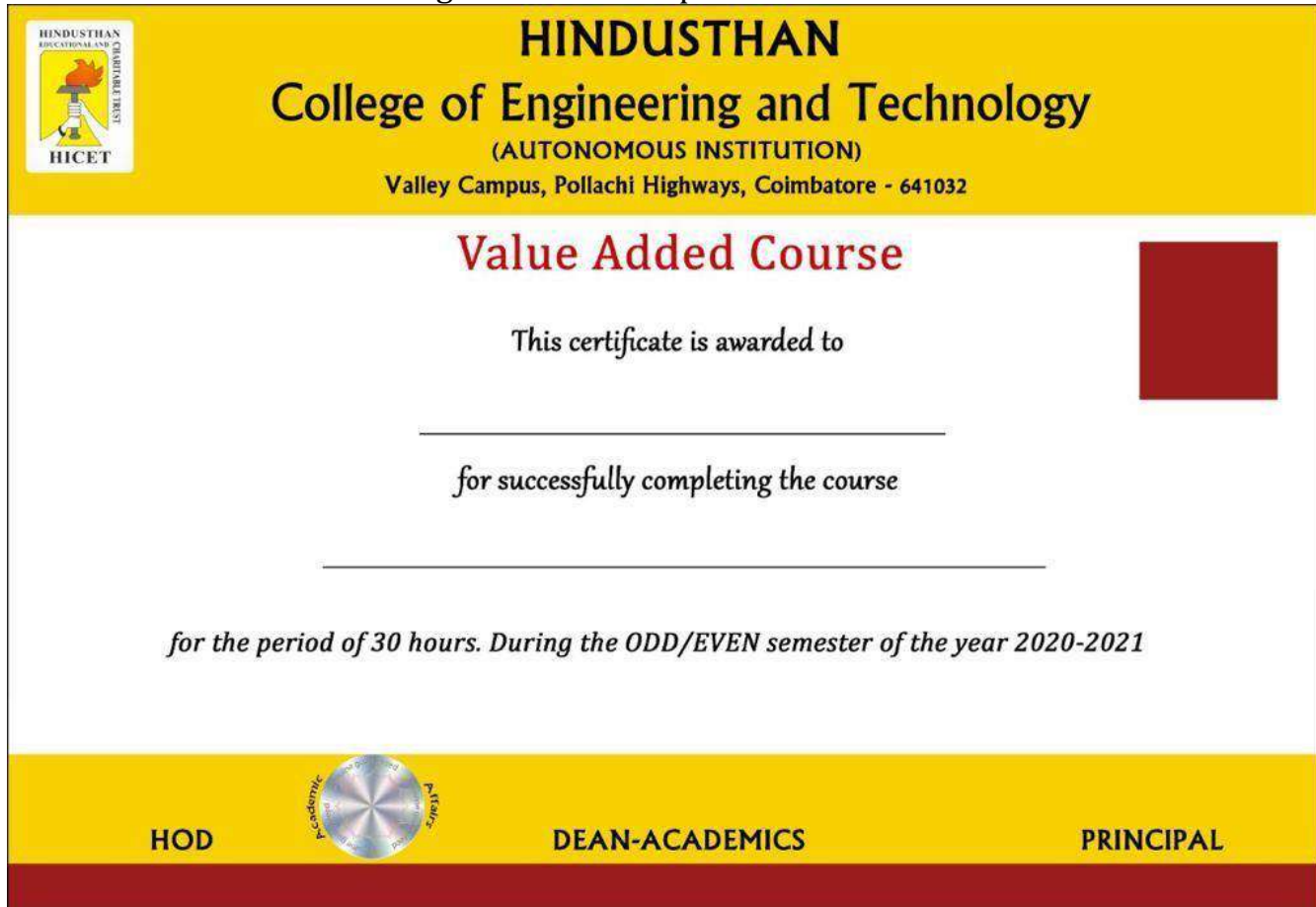
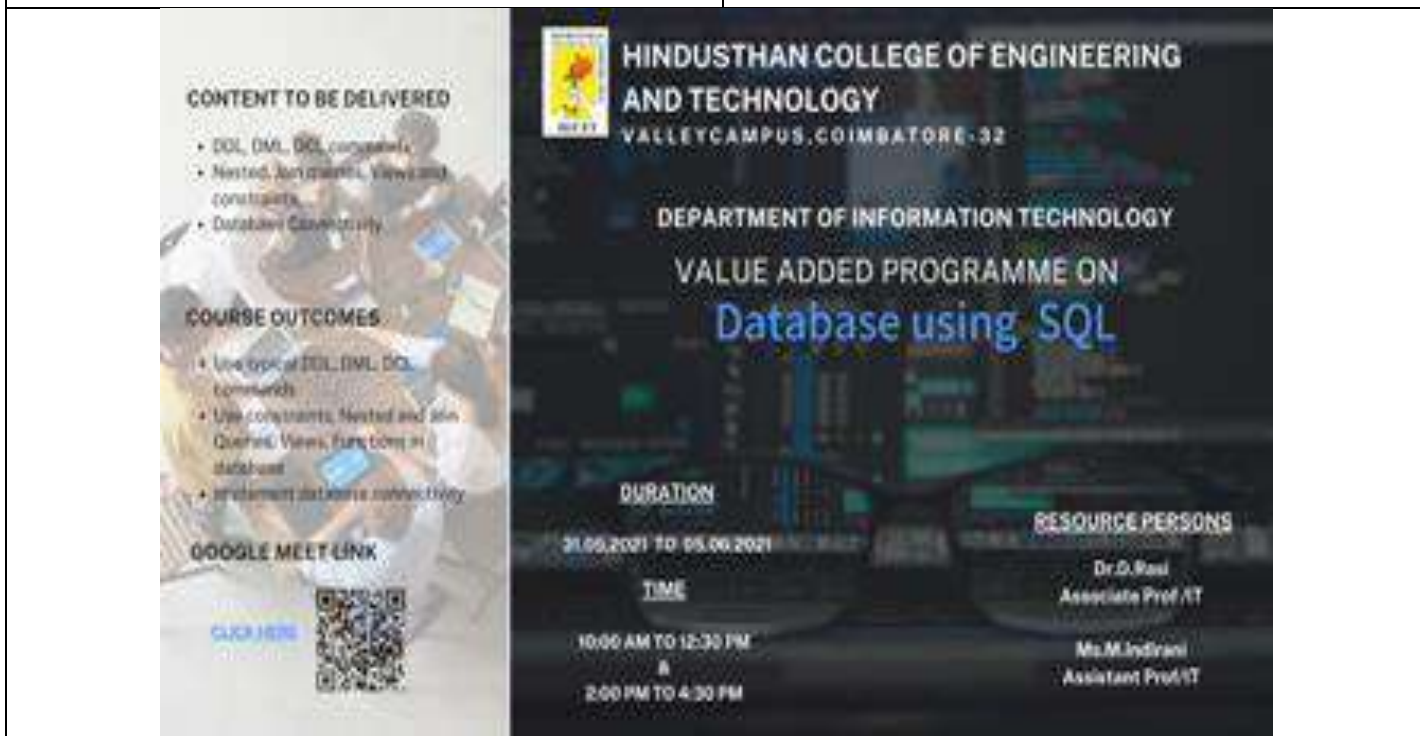
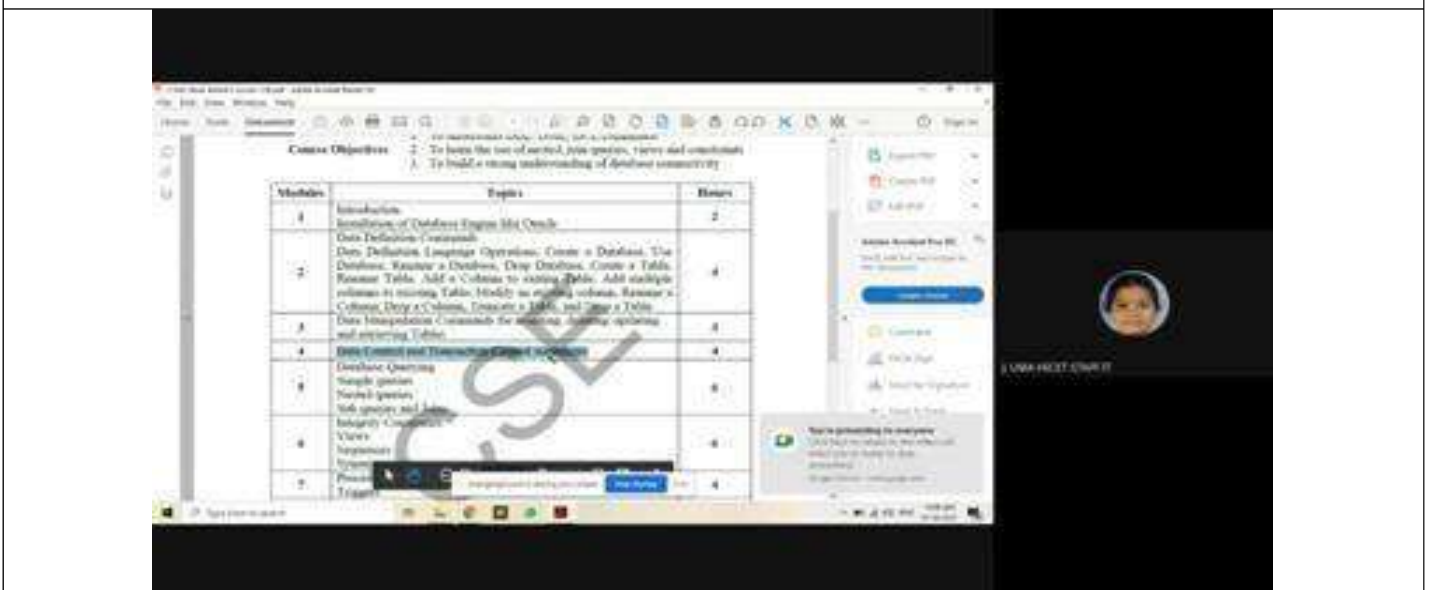
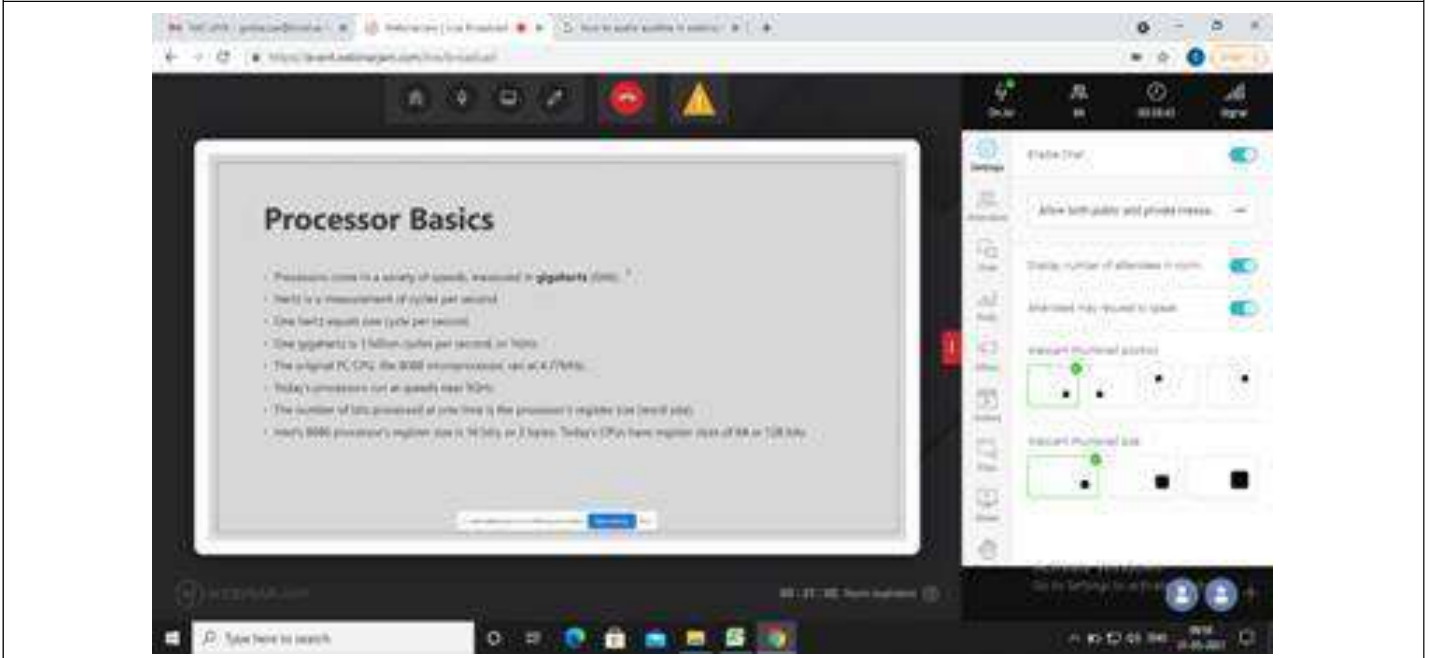


Image of the Event Brochure / Invitation

Geo-Tagged Photographs of Event - 5 Nos





vfu-nrfp-uhw (2021-05-31 at 21:37 GMT-7)

The screenshot shows a Zoom meeting window. On the left, a browser window displays the 'Live SQL' interface. The SQL code in the editor is as follows:

```

1 create table emp (id int primary key, name varchar(255),
2 dept varchar(255) default 'IT', salary int);
3 insert into emp values (1, 'John', 'IT', 10000);
4 insert into emp values (2, 'Mary', 'HR', 15000);
5 insert into emp values (3, 'Robert', 'IT', 20000);
6 insert into emp values (4, 'Michael', 'IT', 18000);
7 insert into emp values (5, 'David', 'HR', 12000);
8 insert into emp values (6, 'Alicia', 'HR', 13000);
9 insert into emp values (7, 'Vern', 'IT', 14000);
10 insert into emp values (8, 'Wendell', 'IT', 11000);
11 insert into emp values (9, 'Terry', 'IT', 12000);
12 insert into emp values (10, 'Gerald', 'IT', 13000);
13 insert into emp values (11, 'Serge', 'IT', 14000);
14 insert into emp values (12, 'Cooper', 'IT', 15000);
15 insert into emp values (13, 'Timothy', 'IT', 16000);
16 insert into emp values (14, 'Jeffrey', 'IT', 17000);
17 insert into emp values (15, 'Gustavo', 'IT', 18000);
18 insert into emp values (16, 'Yulia', 'IT', 19000);
19 insert into emp values (20, 'Glen', 'IT', 24000);
20 insert into emp values (21, 'TJ', 'IT', 26000);
21 insert into emp values (22, 'Ramesh', 'IT', 9000);
22 insert into emp values (23, 'Steven', 'IT', 17000);
23 insert into emp values (24, 'Michael', 'HR', 17000);
24 insert into emp values (25, 'Julia', 'HR', 10000);
25 insert into emp values (26, 'Diana', 'HR', 11000);
26 insert into emp values (27, 'Lawrence', 'HR', 9000);
27 insert into emp values (28, 'Sergei', 'HR', 13000);
28 insert into emp values (29, 'Shelley', 'HR', 12000);
29 insert into emp values (30, 'Tina', 'HR', 10000);
30 insert into emp values (31, 'Chris', 'HR', 8000);
31 insert into emp values (32, 'Markus', 'HR', 7000);
32 insert into emp values (33, 'Doris', 'HR', 9000);
33 insert into emp values (34, 'Ferdinand', 'HR', 12000);
34 insert into emp values (35, 'Vivian', 'HR', 12000);
35 insert into emp values (36, 'Walter', 'HR', 8000);
36 insert into emp values (37, 'Eugene', 'HR', 10000);
37 insert into emp values (38, 'Sutton', 'HR', 9000);
38 insert into emp values (39, 'Tobias', 'HR', 8000);
39 insert into emp values (40, 'Timothy', 'HR', 7000);
39 insert into emp values (41, 'Gail', 'HR', 8000);
39 insert into emp values (42, 'Patricia', 'HR', 6000);
39 insert into emp values (43, 'Sally', 'HR', 7000);
39 insert into emp values (44, 'Sue', 'HR', 9000);
39 insert into emp values (45, 'Brenda', 'HR', 6000);
39 insert into emp values (46, 'Janice', 'HR', 6000);
39 insert into emp values (47, 'Diane', 'HR', 6000);
39 insert into emp values (48, 'Rose', 'HR', 6000);
39 insert into emp values (49, 'Michelle', 'HR', 6000);
39 insert into emp values (50, 'Patricia', 'HR', 6000);
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39 insert into emp values (77, 'Brenda', 'HR', 6000);
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39 insert into emp values (85, 'Brenda', 'HR', 6000);
39 insert into emp values (86, 'Janice', 'HR', 6000);
39 insert into emp values (87, 'Diane', 'HR', 6000);
39 insert into emp values (88, 'Rose', 'HR', 6000);
39 insert into emp values (89, 'Michelle', 'HR', 6000);
39 insert into emp values (90, 'Patricia', 'HR', 6000);
39 insert into emp values (91, 'Sally', 'HR', 6000);
39 insert into emp values (92, 'Sue', 'HR', 6000);
39 insert into emp values (93, 'Brenda', 'HR', 6000);
39 insert into emp values (94, 'Janice', 'HR', 6000);
39 insert into emp values (95, 'Diane', 'HR', 6000);
39 insert into emp values (96, 'Rose', 'HR', 6000);
39 insert into emp values (97, 'Michelle', 'HR', 6000);
39 insert into emp values (98, 'Patricia', 'HR', 6000);
39 insert into emp values (99, 'Sally', 'HR', 6000);
39 insert into emp values (100, 'Sue', 'HR', 6000);

```

On the right side of the Zoom window, a video feed shows a participant with a circular profile picture and the name 'LURE HO.17.5 (m)'. The Zoom control bar at the bottom shows a play button, a volume icon, and a timer at 33:59 / 1:55:23.

The screenshot shows a Zoom meeting window displaying a presentation slide. The slide title is "Upgrading and Replacing Motherboards". The content includes a list of considerations for upgrading a motherboard or processor:

- When upgrading a motherboard or processor, you must consider several issues.
- The following list guides you through making the decision or helping a customer make the decision whether to upgrade a motherboard.
 - Why is the computer being upgraded?
 - For example, does the computer need more memory?
 - Are more expansion slots needed?
 - Does the computer need a higher-factor CPU to run certain operating systems or applications?
 - Is more space wanted in the computer area?
 - Sometimes upgrading the motherboard does not help unless the other computer components are upgraded.
 - The most expensive and fastest motherboard/CPU will not run applications well unless it has the proper amount of memory. Hard drives are another issue. If software access is slow, the solution might not be a new motherboard but a faster and larger hard drive or more RAM.

The slide also features navigation buttons for "PREV" and "NEXT" and a "WEBINAR.JAN" logo. The Zoom control bar at the bottom shows a play button, a volume icon, and a timer at 33:59 / 1:55:23.

The screenshot shows a Zoom meeting window displaying a presentation slide. The slide title is "Installing a riser board". The content includes a list of points about riser boards:

- An alternative to an adapter plugging directly into the motherboard is the use of a riser board.
- A riser board plugs into the motherboard and has its own expansion slots.
- Adapters can plug into these expansion slots instead of directly into the motherboard.
- Riser boards are used with rack-mounted servers and low-profile desktop computer models.
- The riser card is commonly inserted into a motherboard slot or attached using screws.
- Figure shows how a riser board attaches to a motherboard.

The slide includes an image of a riser board and navigation buttons for "PREV" and "NEXT". The Zoom control bar at the bottom shows a play button, a volume icon, and a timer at 03:33:16 from expansion.

Name List:

S.NO	Reg.No.	Name Of the Student
III IT A		
1	19110001	AAKASH ARAVINTH G
2	19110002	ABDUL KAREEM J
3	19110003	ABINESH S
4	19110004	AJITH KUMAR S
5	19110005	AKALYA R
6	19110006	AKASH R
7	19110007	ALAKESVARAN G
8	19110008	ARUNAGIRI V
9	19110009	ASWATH S
10	19110010	AVINESH S
11	19110011	BENHER CHRISTOPHER A
12	19110012	BHARATHI
13	19110013	BHUVANESWAR.E
14	19110014	CHANDRU P
15	19110015	CHANDRU R
16	19110016	CHANDRU T
17	19110017	CHARAN N
18	19110018	DEEPAK S
19	19110020	DHINESH M
20	19110021	DHIVYA DHARSHINI A
21	19110022	DINESH KUMAR B
22	19110023	EBIN SUNNY
23	19110024	FLASHMA S
24	19110025	GEETHAASHREE V
25	19110026	GERALD RUBAN J
26	19110027	GLORIA GLADYS GRACE A
27	19110028	GOKULA KRISHNA K S
28	19110029	GUGAN K
29	19110030	GUNASEKARAN R
30	19110031	HARI S
31	19110033	HARISUDHAN C
32	19110034	INIYAN.S.S
33	19110035	JAMAL ABDUL AZEEZ S
34	19110036	JANANI K
35	19110037	JAYARAM P
36	19110038	JEFRIL ANGELAN R
37	19110039	JENICKS DEEPAK J
38	19110040	JINOMON E.M
39	19110041	JOHN SHARMA K
40	19110042	KAARTHICK K
41	19110043	KARAN K
42	19110044	KAVIPRIYA S
43	19110045	KESAVAN M
44	19110047	LAKSHAYA K

45	19110048	LAKSHMANA KUMAR G
46	19110050	MAGDHALIN GETHSIYA R
47	19110051	MAHALAKSHMI C
48	19110053	MANOJ RAJ M
49	19110054	MATHAVAN G
50	19110055	MOHAMED IQPAL N
51	19110056	MOHAMED SHEAF B
52	19110057	MOHAMMED AFSAL M
53	19110801	SELVAVINAYAGAM.M
III IT B		
54	19110058	NAVEEN KUMAR S
55	19110059	NAVEENKUMAR D
56	19110060	NIVETHA R
57	19110061	NIVITHA PRABA M
58	19110062	PRADEEBA K
59	19110063	PRANESH.T
60	19110064	PRAVEEN KUMAR V
61	19110065	PRAVEENKUMAR.R
62	19110066	PREMKUMAR P
63	19110067	PREMKUMAR R
64	19110068	PRIYANKA B
65	19110069	RAGHUL G
66	19110070	RAGUL V
67	19110071	RAJAGANESH.R.G
68	19110072	RAM KUMAR G
69	19110073	RANJANA M
70	19110074	RANJITH.R
71	19110075	RASVINA S
72	19110076	SAGUNDHALADEVI M
73	19110078	SANDEEPKUMAR V
74	19110079	SARATHKUMAR B
75	19110080	SARAVANAN S
76	19110081	SELVAKUMAR P
77	19110082	SHAJAN SRI NIVAAS.B
78	19110083	SHANMUGAM S
79	19110084	SHINY MARY G
80	19110085	SHIVANI S
81	19110086	SIVAGAMASUNDARI G
82	19110087	SIVAVEL R
83	19110088	SRI VISHNU R
84	19110089	SRIDHAR S
85	19110090	SUBASH D
86	19110091	SUBBAIYA N
87	19110092	SUBHAA S G
88	19110093	SUGUMAR M
89	19110094	SUNIL S
90	19110095	SURYA PRABHU K
91	19110096	SUSIKARAN B
92	19110097	TAMIL PRIYA S

93	19110098	THIRUMURUGAN R
94	19110099	VARSHA C
95	19110100	VARUN KUMAR R
96	19110101	VENKATESAN S
97	19110102	VIDHYALAKSHMI K R
98	19110103	VIDHYAROHINI S
99	19110104	VIGNESH K
100	19110105	VIGNESH S
101	19110106	VIGNESH S
102	19110107	VIGNESH S
103	19110108	VIGNESHWARAN K
104	19110109	VIKRAM C
105	19110110	VIKRAM R
106	19110111	VINOTHKUMAR S
107	19110112	VIVEK S
108	19110113	SANCHANA G S
109	19110114	ALLEN JOSHUA J



HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY
Valley Campus, Pollachi Highway
Coimbatore - 641032

DEPARTMENT OF INFORMATION TECHNOLOGY

SCHEDULE FOR VALUE ADDED COURSE-KOTLIN,THE COMPLETE REACT NATIVE

Date	Session
19.04.2021	FN- 10.00 am-11.30 am AN- 2.00 pm -3.30 pm
20.04.2021	FN- 10.00 am-11.30 am AN- 2.00 pm -3.30 pm
21.04.2021	FN- 10.00 am-11.30 am AN- 2.00 pm -3.30 pm

Name of the Faculty: Ms.P.Anitha, Ms.T.Sakthi Sree

Meet Link: <https://meet.google.com/lookup/fo2d3xz557>

Name of the Faculty: Ms.S.Gokila

Meet Link: <https://meet.google.com/lookup/hazjoxm47c>


Course Coordinator


HOD/IT

S.NO	Register Number	Name of the Student	VAC Course Willing to attend
III IT A			
1	18110001	ABDULARIES M	Android Development with Kotlin
2	18110002	AISHWARYA G	Android Development with Kotlin
3	18110003	AJAY KUMAR J.S	Android Development with Kotlin
4	18110004	AJIT A	Android Development with Kotlin
5	18110005	AKASH K	Android Development with Kotlin
6	18110006	AKASH R	Android Development with Kotlin
7	18110007	ARAVINDHAN V M	Android Development with Kotlin
8	18110008	ARUMUGAM S	Android Development with Kotlin
9	18110009	ARUN PRASATH P	Android Development with Kotlin
10	18110010	BARATH P	Android Development with Kotlin
11	18110011	BETSIN KURUVILA MEKKAT	Android Development with Kotlin
12	18110013	BHARATHI KANNAN S	Android Development with Kotlin
13	18110014	CHANDRASEKAR T S	Android Development with Kotlin
14	18110015	CHANDRU D R	Android Development with Kotlin
15	18110016	CHINNADURAI S	Android Development with Kotlin
16	18110017	CYLVIA MAYBELL N	Android Development with Kotlin
17	18110018	DEVANARAYANAN.P	Android Development with Kotlin
18	18110019	DHANASEKAR E	Android Development with Kotlin
19	18110021	DIVAGAR M	Android Development with Kotlin
20	18110023	GOWSALYA F	Android Development with Kotlin
21	18110025	HARI KRISHNA.J	Android Development with Kotlin
22	18110026	HARIHARAN M	Android Development with Kotlin
23	18110027	HARIHARAN R	Android Development with Kotlin
24	18110028	HARIHARAN R	Android Development with Kotlin
25	18110029	HARIHARAN.V	Android Development with Kotlin
26	18110030	HARSHINI R	Android Development with Kotlin
27	18110031	JAGAN Y	Android Development with Kotlin
28	18110032	JAI IRIN MYSTICA J	Android Development with Kotlin
29	18110033	KAILASH S	Android Development with Kotlin
30	18110034	KARTHICK RAJA.J	Android Development with Kotlin
31	18110035	KAVIYARASAN K	Android Development with Kotlin
32	18110036	KAYATHRI S	Android Development with Kotlin
33	18110037	KEVIN K S	Android Development with Kotlin
34	18110038	KRITHICK VASAN S	Android Development with Kotlin
35	18110039	LAGUMESH V	Android Development with Kotlin
36	18110040	LASHMI NARAYANAN S	Android Development with Kotlin
37	18110041	LOKESH S	Android Development with Kotlin
38	18110042	LOKESH KUMAR GK	Android Development with Kotlin
39	18110045	MADHUCHARAN M	Android Development with Kotlin
40	18110044	MALARVANAN A	Android Development with Kotlin
41	18110045	MANOJ KUMAR N	Android Development with Kotlin
42	18110046	MOHAMED ASHIF	Android Development with Kotlin
43	18110047	MOHAMED SHAFEEK M	Android Development with Kotlin
44	18110049	MOHAMMED MAIDEEN NOWFAL V A	Android Development with Kotlin
45	18110050	MOHANABALAJI S	Android Development with Kotlin
46	18110051	MOHAN KANTH.D	Android Development with Kotlin
47	18110052	MOULI R	Android Development with Kotlin
48	18110053	MOUN PRASATH R	Android Development with Kotlin
49	18110054	MUKILAN V	Android Development with Kotlin
50	18110056	NANDHAKUMAR R	Android Development with Kotlin
51	18110057	NAVEEN KUMAR P	Android Development with Kotlin
52	18110058	NILAVARASI S	Android Development with Kotlin

III IT B			
53	18110059	Nivedhitha K R	The complete REACT Native
54	18110060	V PAVITHRA ANAND	Android Development with Kotlin
55	18110061	Praveen Iyyappan R	Android Development with Kotlin
56	18110062	Priyadarshini	Android Development with Kotlin
57	18110064	Rafiq J	The complete REACT Native
58	18110065	Raguram T	Android Development with Kotlin
59	18110066	Rajkumar	Android Development with Kotlin
60	18110067	Rakshan	The complete REACT Native
61	18110069	k.Ranjith	Android Development with Kotlin
62	18110070	Ranjith.S	Android Development with Kotlin
63	18110071	Rishi	Android Development with Kotlin
64	18110072	Rithickishore R M	Android Development with Kotlin
65	18110073	Riyagencika p	The complete REACT Native
66	18110074	Ruban kumar B	The complete REACT Native
67	18110075	Sabari Giri Vasam L L	The complete REACT Native
68	18110076	Sajeshpraveen R	The complete REACT Native
69	18110077	Sakthivel M	The complete REACT Native
70	18110078	A SANJAY RAJ	The complete REACT Native
71	18110080	SANTHOSH R	Android Development with Kotlin
72	18110081	SARANYA S	The complete REACT Native
73	18110082	Shelvaasundari M	The complete REACT Native
74	18110083	SHRI PRAKASH	Android Development with Kotlin
75	18110084	Sivaraam R	Android Development with Kotlin
76	18110085	Sivaranjani M	The complete REACT Native
77	18110086	M.SIVASUBRAMANIAN	The complete REACT Native
78	18110087	Sriram. B	The complete REACT Native
79	18110088	Srisha G	The complete REACT Native
80	18110089	G Subash Chandra bose	The complete REACT Native
81	18110090	G.Subash	The complete REACT Native
82	18110091	SUJITHKUMAR T	The complete REACT Native
83	18110092	Surya Prakash N	The complete REACT Native
84	18110093	TAMILARASAN P	The complete REACT Native
85	18110094	TAMILARASU V	The complete REACT Native
86	18110095	Thirumal.j	Android Development with Kotlin
87	18110096	Vasanth Kumar K	The complete REACT Native
88	18110097	Venkatesh	The complete REACT Native
89	18110098	Vignesh C	The complete REACT Native
90	18110099	Vignesh K	The complete REACT Native
91	18110100	Vignesh k	The complete REACT Native
92	18110101	S.Vignesh	The complete REACT Native
93	18110102	M vijay	Android Development with Kotlin
94	18110103	S. VIJAYAKUMAR	Android Development with Kotlin
95	18110104	Vimal Karthick S	Android Development with Kotlin
96	18110105	VINUPRASATH	The complete REACT Native
97	18110107	Yogesh.k	The complete REACT Native
98	18110801	Sabarirajan P	Android Development with Kotlin


Mechanical Engineering Department

Hindusthan College of Engineering and Technology
 Valley Campus, Pollachi Highway, Othakkalmandapam, Coimbatore-641032
 Department of Mechanical Engineering

12-04-2021

Schedule – Value Added Course

S.No	Class	Name of the course	Duration	Period / Timings		Faculty Name
1	II year	Introduction to MS office	30 hrs	15-04-2021 to 20-04-2021		Ms.S.Sathya AP/CSE
				FN	10:00 am to 12:30 pm	
				AN	2:00 pm to 4:30 pm	
2	III year	Computational Fluid Dynamics	30 hrs	15-04-2021 to 20-04-2021		Mr.A.Kuppuraj AP/Aero
				FN	10:00 am to 12:30 pm	
				AN	2:00 pm to 4:30 pm	


HOD/Mech

Hindusthan College of Engineering and Technology
Valley Campus, Pollachi Highway, Othakkalmandapam, Coimbatore-641032

Department of Mechanical Engineering

III year students Name list

S.No	Reg.No	Name	Year
1	18108001	AKASH M	III Year
2	18108002	AAKASH R	III Year
3	18108003	ABHISHEK S	III Year
4	18108004	ABILASH K	III Year
5	18108005	ABIRAM P U	III Year
6	18108006	ABISHEK A S	III Year
7	18108007	ABISHEK L R	III Year
8	18108008	ABISHEK S	III Year
9	18108009	ABISHEK S	III Year
10	18108010	ADITHYA K R	III Year
11	18108011	AGASH E	III Year
12	18108013	AJAY KUMAR B	III Year
13	18108014	AJITH GEORGE	III Year
14	18108015	AJITH KUMAR R	III Year
15	18108016	AMRISH A L	III Year
16	18108017	AMUTHAVANAN V A	III Year
17	18108018	ANBARASAN E	III Year
18	18108019	ARAVINDH RAJA S	III Year
19	18108020	ARAVINDH T	III Year
20	18108021	ARAVINTHAN K	III Year
21	18108022	ARUN NAYAGAM L	III Year
22	18108023	ARUNKUMAR R	III Year
23	18108024	ARUNKUMAR T	III Year
24	18108025	ASHIK MOHAMED A S	III Year
25	18108026	ASWIN R	III Year
26	18108027	ATHITHAN P	III Year
27	18108028	BAVIN RAM A R	III Year
28	18108029	BEJESH KRISHNA B	III Year
29	18108030	BERVIN ALFRAT.J	III Year
30	18108032	BHARATHY S	III Year
31	18108033	BOOPATHI P	III Year
32	18108034	CHANDRU V	III Year
33	18108035	CHANTHURU T	III Year
34	18108037	DAVID PRAMOTH M	III Year
35	18108038	DEEPAN CHAKRAVARTHI N	III Year
36	18108039	DHEERAJ P	III Year
37	18108041	DINESH KUMAR V	III Year
38	18108042	DIVAKAR.G	III Year
39	18108043	ELPHER JEYA BEHAS C	III Year
40	18108044	ESHWAR S	III Year

41	18108045	GAUSIK S	III Year
42	18108046	GEERTHI VASAN K S	III Year
43	18108049	GODWIN S	III Year
44	18108050	GOKUL A	III Year
45	18108051	GOKUL RAJ.E	III Year
46	18108052	GOWRISHANKAR M	III Year
47	18108053	GOWSICK A	III Year
48	18108054	GUNA K	III Year
49	18108055	GUNASEELAN S	III Year
50	18108056	GURU PRASATH S	III Year
51	18108057	HAFIS MOHAMED	III Year
52	18108059	HARIKRISHNA S R	III Year
53	18108060	INBARASU M	III Year
54	18108061	IRUDHAYA JOHNSON N	III Year
55	18108062	IZASDEEN.H	III Year
56	18108801	ABISHEK P	III Year
57	18108802	AJAYRAJ G S	III Year
58	18108803	AYYAPPAN S	III Year
59	18108804	BALAJI A	III Year
60	18108805	DEEPAN K K	III Year
61	18108806	DHANASHEKAR G	III Year
62	18108807	DINESH KUMAR S	III Year
63	18108808	GOKULRAJ J	III Year
64	18108809	GOPINATH R	III Year
65	18108810	HAJA MOHAIDEEN H	III Year
66	18108811	JOMON WILSON	III Year
67	18108063	JACKSON S WILFRED	III Year
68	18108064	JAYAPRAKASH S	III Year
69	18108065	JAYASAKTHIKUMAR D	III Year
70	18108066	JEBISH G S	III Year
71	18108067	JEYA RAMALINGAM V	III Year
72	18108068	JINESH MOORTHY T	III Year
73	18108069	JITHIN RAJ	III Year
74	18108070	JIYAVUDEEN S	III Year
75	18108071	JOHNSUNDAR A	III Year
76	18108072	JOSEPH J ARANGASSERY	III Year
77	18108073	JUDIN JINO G N	III Year
78	18108074	KALAISELVAN P	III Year
79	18108075	KAMALAKANNAN S	III Year
80	18108076	KAMALESWARAN P	III Year
81	18108077	KANNAN S	III Year
82	18108079	KARTHICK R P	III Year
83	18108080	KARTHIK V	III Year
84	18108082	KATHIRAVAN U	III Year
85	18108083	KAVEEN R	III Year
86	18108084	KAVIYARASAN M	III Year
87	18108085	KIRUTHIK ROSHAN S	III Year
88	18108086	KISHORE KUMAR M	III Year

89	18108087	KISHOREKUMAR S	III Year
90	18108088	LOKESH KUMAR N	III Year
91	18108089	MADHESWARAN R	III Year
92	18108090	MAHESH KANNAN R	III Year
93	18108091	MALAICHAMY V	III Year
94	18108092	MANO RANJITH KUMAR M	III Year
95	18108093	MANOJ KUMAR M	III Year
96	18108094	MANOJKUMAR V	III Year
97	18108095	MATHIKUMAR V	III Year
98	18108096	MOHAMMED SHAHID K S	III Year
99	18108097	MOHAMMED SUFIYAN M	III Year
100	18108098	MURALI KRISHNA R	III Year
101	18108099	NARKIS RAJ M	III Year
102	18108100	NAVEEN S	III Year
103	18108101	NAZEER HUSSAIN S	III Year
104	18108102	NIKIL SANTHOSH V	III Year
105	18108103	NITHISH KUMAR D	III Year
106	18108104	NIVAS R V	III Year
107	18108105	PANDI SELVAN RV	III Year
108	18108106	PAVISH K	III Year
109	18108107	PRADEEP K	III Year
110	18108108	PRADEESH R	III Year
111	18108109	PRAKASH R	III Year
112	18108110	PRANAV C S	III Year
113	18108111	PRASANNA C T	III Year
114	18108112	PREMCHAND E	III Year
115	18108113	PREMKUMAR K	III Year
116	18108114	PRINCE T	III Year
117	18108115	PUSHKAR E	III Year
118	18108116	RADHAKRISHNAN R	III Year
119	18108117	RAGUL.D	III Year
120	18108603	ALAGU VENKATESH P	III Year
121	18108604	GOKULA KRISHNAN.M	III Year
122	18108605	HARISH K	III Year
123	18108812	KARTHIKEYAN V	III Year
124	18108813	KAUSIK S.N	III Year
125	18108814	KESAVADAS .K	III Year
126	18108815	KISHORE KUMAR V	III Year
127	18108816	MOHAMED KAMIL AZAM I	III Year
128	18108817	MOHAMED MUJAMEEL M	III Year
129	18108818	MOHAMED ZUBAIR ABBAS. S	III Year
130	18108819	NAGENDRAN .P	III Year
131	18108820	PRAVEEN R	III Year
132	18108118	RAGUL N	III Year
133	18108119	RAHUL.G	III Year
134	18108120	RAHUL PRASAD R B	III Year
135	18108121	RAJ MOHAN P	III Year
136	18108122	RAJA BASKAR S	III Year

137	18108124	RAJKUMAR M	III Year
138	18108125	RAJKUMAR R	III Year
139	18108126	RAKESHKUMAR S	III Year
140	18108127	RAMKUMAR A	III Year
141	18108128	RAMKUMAR R	III Year
142	18108129	RANJITH P	III Year
143	18108130	RANJITH R	III Year
144	18108131	RIJA THOUFIQ M	III Year
145	18108133	SABARI R	III Year
146	18108134	SAM MORRIS J	III Year
147	18108135	SANJAY RAJA K	III Year
148	18108136	SANJAY V	III Year
149	18108137	SANKARA NARAYANAN T	III Year
150	18108138	SARAN M	III Year
151	18108139	SARAN R	III Year
152	18108140	SATHISHKUMAR.M	III Year
153	18108141	SHARAF AMEN FIROZ	III Year
154	18108142	SIVA S	III Year
155	18108143	SOURAV DAS K M	III Year
156	18108144	SREERAM KARIPURATH	III Year
157	18108146	SRI SABARISH S.V	III Year
158	18108147	SRI SARAN S	III Year
159	18108148	SRIDHAR S	III Year
160	18108149	SRIRAM AL	III Year
161	18108150	SUGAN T	III Year
162	18108151	SURIYA G	III Year
163	18108152	SURIYA S	III Year
164	18108153	SURYA A K	III Year
165	18108155	SUTHAN M	III Year
166	18108156	TAMIL SELVAN M	III Year
167	18108157	TAMIL VENTHAN R N	III Year
168	18108158	THARUN SUNDAR S	III Year
169	18108159	VASANTH.S	III Year

185	18108824	SAMBATH.R.K	III Year
186	18108825	SANJAY KANNAN.R	III Year
187	18108826	SELVA JOSEVA.M	III Year
188	18108827	SELVAGANESH.S	III Year
189	18108828	SHANMUGA NAOTHAN.S	III Year
190	18108829	SUBAGIRIDHARAN.P.R	III Year
191	18108830	SUBHASHKUMAR.N	III Year
192	18108831	VENKATESHWARAN.R	III Year
193	18108832	VIGNESH.D	III Year
194	18108833	VIGNESHWARAN.S	III Year
195	18108834	YASHWANATH.R	III Year

Hindusthan College of Engineering and Technology
 Valley Campus, Pollachi Highway, Othakkalmandapam, Coimbatore-641032
Department of Mechanical Engineering
 II year students Name list

S.No	Reg.No	Name	Year
1	19108001	ABISHEK P	II Year
2	19108002	AJAY P	II Year
3	19108003	AJITHKUMAR T	II Year
4	19108004	AKASH PRADEEPAN T K	II Year
5	19108005	AKASH R	II Year
6	19108006	AKILESH K	II Year
7	19108007	AMARNATH D	II Year
8	19108008	AMARNATH N	II Year
9	19108009	ARULANANTHAM A	II Year
10	19108010	ARUN K JOHNY	II Year
11	19108011	ARUN .P. K	II Year
12	19108012	ARUN RATHNAVEL C	II Year
13	19108013	ARUN S	II Year
14	19108014	ARUNKUMAR V	II Year
15	19108015	ASWIN K	II Year
16	19108016	AYYANAR M	II Year
17	19108017	AZIZ BERLIN R J	II Year
18	19108018	BANU PRAKASH G	II Year
19	19108019	BHARATHI PRASAD B	II Year
20	19108020	DEEPAN T	II Year
21	19108021	DHINESH A	II Year
22	19108022	DHISHIKAR S	II Year
23	19108023	DINESH T	II Year
24	19108024	DON POSCO J	II Year
25	19108025	ESWAR K	II Year
26	19108026	GAUTHAM PRAKASH A	II Year
27	19108027	GOKULA MOORTHY B	II Year
28	19108028	GOKULKUMAR S	II Year
29	19108029	GOWTHAM K	II Year
30	19108030	HARIHARAN A G	II Year
31	19108031	HARIHARAN A K	II Year
32	19108032	HARIHARASUDHAN M	II Year
33	19108033	HARVISHNU S	II Year
34	19108034	JAYASURYA J	II Year
35	19108035	JESRAJ	II Year
36	19108036	JEYARAMAN M	II Year
37	19108037	JITHU J DANIEL	II Year
38	19108801	AAKASH.D	II Year
39	19108802	ANOSH.P.N	II Year
40	19108803	ARAVINTHAN.S	II Year
41	19108804	ASWIN.S	II Year
42	19108805	ASWINKANNA.S	II Year
43	19108806	DEEPAK.RAJ.M	II Year

44	19108807	DERRY PAUL	II Year
45	19108808	EDWIN C JOHNSON	II Year
46	19108809	ENFVIN FRANCIS	II Year
47	19108810	ESSA FAIGEE.M	II Year
48	19108811	GANESH RAM.R	II Year
49	19108812	HARIKRISHNAN.N	II Year
50	19108813	HIRAN.S.M	II Year
51	19108038	JOHNSON K	II YEAR
52	19108039	KAMALESH J	II YEAR
53	19108040	KARTHIGEYAN M	II YEAR
54	19108041	KARTHIKEYAN V	II YEAR
55	19108042	KARUN V	II YEAR
56	19108043	KUMARAVEL S	II YEAR
57	19108044	LOGESHWARAN M	II YEAR
58	19108045	MADESH V	II YEAR
59	19108046	MAHESH A	II YEAR
60	19108047	MANIKANDAN M	II YEAR
61	19108048	MANOJ KUMAR A	II YEAR
62	19108049	MANONMANIYAN V	II YEAR
63	19108050	MOHAMED ASIK A	II YEAR
64	19108051	MOHAMMED SINAN V	II YEAR
65	19108052	MUHAMMAD SHAFIQ J	II YEAR
66	19108053	MUHAMMED HIJAS C	II YEAR
67	19108054	MUHAMMED SHA MAHROOF	II YEAR
68	19108055	MUTHUVELBAGATSINGH A	II YEAR
69	19108056	NABHAN SHAJIM AHAMMED D	II YEAR
70	19108057	NANDHA KUMARAN R	II YEAR
71	19108058	NANDHAGOPALAN R	II YEAR
72	19108059	NAVEENRAJA P	II YEAR
73	19108060	NEELAKANDAMOORTHY M	II YEAR
74	19108061	NITHEES KUMAR A	II YEAR
75	19108062	NITHISH M	II YEAR
76	19108063	PRABHU T	II YEAR
77	19108064	PRANEETH K	II YEAR
78	19108065	PRASANNA YUVARAJ B	II YEAR
79	19108066	PRAVEEN KUMAR S	II YEAR
80	19108067	PRAVEEN T	II YEAR
81	19108068	PROLICH BRITO RAJ S	II YEAR
82	19108069	PUGAZHNITHI G	II YEAR
83	19108070	PUSALAPURAM RAJESH	II YEAR
84	19108071	RAGUNATH C	II YEAR
85	19108072	RAJKUMAR K	II YEAR
86	19108073	RAKESH PANDI S	II YEAR
87	19108814	JAI VIGNESH	II YEAR
88	19108815	KARTHIK K	II YEAR
89	19108816	KARTHIKEYAN M	II YEAR
90	19108817	KARTHIGEYAN R	II YEAR

93	19108820	MOHANRAJ	II YEAR
94	19108821	MOUNESH	II YEAR
95	19108822	NADESH	II YEAR
96	19108823	NIRMALKUMAR	II YEAR
97	19108824	PONSELVAM	II YEAR
98	19108825	PRAVEENKUMAR	II YEAR
99	19108826	RAMASUBRAMANI	II YEAR
100	19108075	RANJITH T	II Year
101	19108076	RATHANVEL V S	II Year
102	19108077	REGAN ANTONY JEROLD A	II Year
103	19108078	REGIES J	II Year
104	19108079	RIAZ KHAN J	II Year
105	19108080	RIYAS AHAMED J	II Year
106	19108081	THARUN KUMAR S	II Year
107	19108083	SAI CHANDRU P	II Year
108	19108084	SAI MADHAN G	II Year
109	19108085	SAKTHI MURUGAN P	II Year
110	19108086	SAKTHIRAKESHWARAN R	II Year
111	19108087	SANJAY E	II Year
112	19108088	SANJAY N VILADIMIR	II Year
113	19108089	SHANKAR T	II Year
114	19108090	SARAN E	II Year
115	19108091	SARAVANAN R	II Year
116	19108092	SARAVANAPANDI MANO L	II Year
117	19108093	SATHEESWARAN S	II Year
118	19108094	SATHIYARAJ M	II Year
119	19108095	SHEENU S A	II Year
120	19108096	SHYAM JOSEPH B	II Year
121	19108097	SIVA S	II Year
122	19108098	SIVABALAN P	II Year
123	19108099	SIVARAJ S	II Year
124	19108100	SIVA SURIYA S	II Year
125	19108101	SULAIMAN M	II Year
126	19108102	SUNDARA PRAKASH R	II Year
127	19108103	SURAJ S	II Year
128	19108105	VETRIKANNAN I	II Year
129	19108106	VIDHU PRASAD K	II Year
130	19108107	VIJAY A	II Year
131	19108108	VISHNU S	II Year
132	19108109	VISHWA V	II Year
133	19108110	VYSHAKH MV	II Year
134	19108111	YOKESH M	II Year
135	19108827	RANJITH R	II Year
136	19108828	REVANTH E	II Year
137	19108829	RISHWANTH R	II Year
138	19108830	SANTHOSH M	II Year
139	19108831	SARAN SM	II Year
140	19108832	SARATH S	II Year
141	19108833	SATHIYA NARAYANAN S	II Year
142	19108834	SUDHARASAN V	II Year
143	19108835	SURIYANATH N	II Year

144	19108836	VASANTHKUMAR TC	II Year
145	19108837	VIJAYA KUMAR	II Year
146	19108838	VISHWANAATHAN N R	II Year
147	19108839	VYSHAKH P	II Year
148	19108840	YASWANTH KUMAR M	II Year
149	19108841	YESH JOHN	II Year

Image of the Participation Certificate

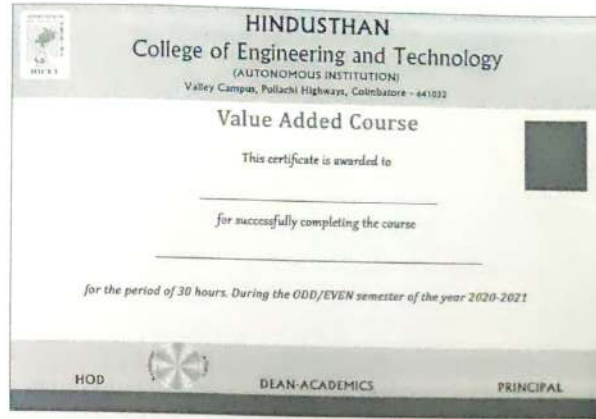


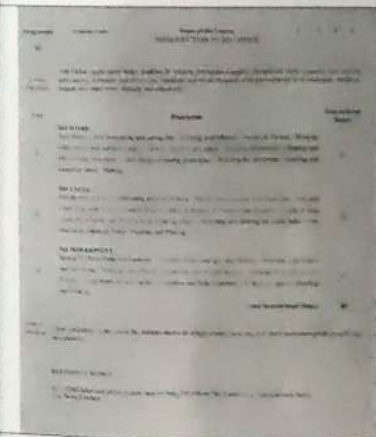
Image of the Event Brochure / Invitation

Hindusthan College of Engineering and Technology
 Valley Campus, Pollachi Highway, Othakkalmandalam, Coimbatore-641022
 Department of Mechanical Engineering
 12-04-2021

Schedule - Value Added Course

S.No.	Class	Name of the course	Duration	Period / Timing	Faculty Name
1	II year	Introduction to MS office	30 hrs	12-04-2021 to 20-04-2021	Ms.S.Ganesh AP/IT
				10:00 am to 12:30 pm 2:00 pm to 4:30 pm	
2	II year	Computational Fluid Dynamics	30 hrs	12-04-2021 to 20-04-2021	Mr.A.Siddiqui AP/Mech
				10:00 am to 12:30 pm 2:00 pm to 4:30 pm	

Geo-Tagged Photographs of Event - 2 Nos



Report to be submitted within 3 days of the completion of the Event

Image of the Participation Certificate

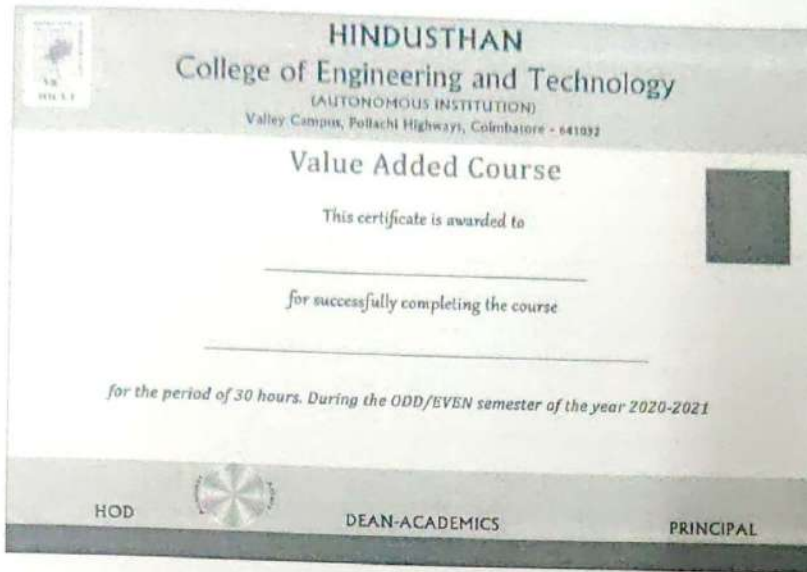


Image of the Event Brochure / Invitation

Geo-Tagged Photographs of Event – 2 Nos

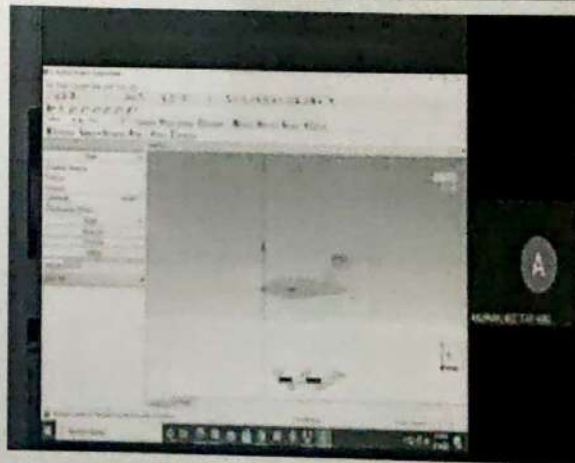
Hindusthan College of Engineering and Technology
 Valley Campus, Pollachi Highway, Othakkalmandapam, Coimbatore-641032
 Department of Mechanical Engineering

12-04-2021

Schedule – Value Added Course

S.No	Class	Name of the course	Duration	Period / Timings	Faculty Name
1	B year	Introduction to MS office	30 hrs	15-04-2021 to 20-04-2021	Ms.S.Sathya AP/CSE
				FN 10:00 am to 12:30 pm AN 2:00 pm to 4:30 pm	
2	B3 year	Computational Fluid Dynamics	30 hrs	15-04-2021 to 29-04-2021	Mr.A.Kuppusamy AP/Aero
				FN 10:00 am to 12:30 pm AN 2:00 pm to 4:30 pm	

HOD/Dech



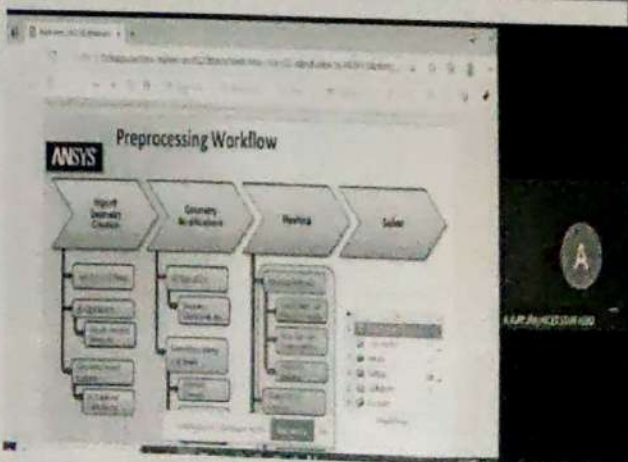
Computational Fluid Dynamics Lab

Course Objectives:

1. To provide students with the necessary skills to use commercial CFD packages
2. To carry out research in the area of Computational Fluid Dynamics.
3. To solve a variety of flow situations and heat transfer tutorials.

Syllabus:

The set of tutorials designed to provide the student with the necessary tools for using sophisticated commercial ANSYS fluent CFD software. A set of laboratory tasks will take the student through a series of increasingly complex flow and heat transfer simulations, requiring an understanding of the basic theory of computational fluid dynamics (CFD). At the end of the course each student will have to complete a team project.



Report to be submitted within 3 days of the completion of the Event