PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

NAMAKKAL -637 018

DEPARTMENT OF AERONAUTICAL ENGINEERING

DATE: 07.09.2023

CIRCULAR

It is planned to conduct Five Days Value Added Course on "23AEVC301-NON DESTRUCTIVE TESTING" for Third semester students from 12.09.2023 to 16.09.2023. The interested students are asked to enroll their name to the course coordinator Mr.D.RAJKUMAR,.AsP/AERO on or before date. (Spot registration can also be permitted).

Course Co-ordinator:1. Mr.D.RAJKUMAR,.AsP/AERO

HEAD OF THE DEPARTMENT
DEPARTMENT OF AERONAUTICAL ENGINEERING
PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)
PACHAL, NAMAKKAL - 637 018

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PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF AERONAUTICAL ENGINEERING

NON DESTRUCTIVE TESTING

ABOUT THE COURSE:

Nondestructive Testing (NDT) plays an important role in assuring that structural and mechanical components perform their function in a safe, reliable, and cost-effective manner.

Who Can Join?

- II, III, IV Year of B.E,B.Tech– students
- Those who want to become a Testing Technician.
- Out of box thinkers.

Why Solid Works?

- Solid Works is relatively easy to learn in comparison to other solid modellers.
- It is the most popular solid modeller,
- You have more job choices available to you.

Course Content:

- Introduction to
  - Sketching
  - Part modelling
  - Assembly modelling

Date: 12.09.2023 to 16.09.2023.

Venue:

Harita Tech serve lab,

Core Engineering Block

Paavai Engineering college

Course Incharge

- Mr.D.RAJKUMAR,.AsP/AERO

22AEVC301 **NON DESTRUCTIVE TESTING**

COURSE OBJECTIVES

To enable the students

- gain practical knowledge on conventional NDT techniques
- develop a strong hands on experience for inspecting and evaluating components in accordance with industry specifications.

1. LIQUID PENETRANT TESTING

Introduction

Equipment &Materials

Inspection Methods

Interpretation

Discontinuities

2. MAGNETIC PARTICLE TESTING

Introduction

Magnetization Methods

Magnetization Equipment

Interpretation

Discontinuities

3. ULTRASONIC TESTING

Introduction

Ultrasonic Principle

Equipment

Reference Block

Testing Methods

Inspection & Evaluation

4. RADIOGRAPHIC TESTING

Principles

Techniques

Applications

Limitations

Standards and Specifications related to Radiography

TOTAL PERIODS 30

COURSE OUTCOMES

Upon completion of the course students will be able to

TEXT BOOK & MANUALS

- Baldev Raj, T.Jayakumar, M.Thavasimuthu Practical Non-Destructive Testing, Narosa Publishing House, 2014.
- Ravi Prakash, Non-Destructive Testing Techniques, 1st revised edition, New Age International Publishers, 2010

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)
NAMAKKAL -637 018
DEPARTMENT OF AERONAUTICAL ENGINEERING

Academic Year 2023-2024

Attendance sheet

Year/Semester : II/III

Course Name : 23AEVC301-NON DESTRUCTIVE TESTING Date : 12.09.2023

S.No	Reg.No	Student Name	12.09.23	13.09.23	14.09.23	15.09.23	16.09.23
1.	622122101001	ABISHEK.M	✓	✓	✓	✓	✓
2.	622122101003	ANANDH.C	✓	✓	✓	✓	✓
3.	622122101004	BALA.G	AB	AB	AB	AB	AB
4.	622122101005	DHARANI SRI.V	✓	✓	✓	✓	✓
5.	622122101006	GIRIRAJ.R	✓	✓	✓	✓	✓
6.	622122101007	GOWTHAM.V	✓	✓	✓	✓	✓
7.	622122101008	GURUNATHAN.K	✓	✓	✓	✓	✓
8.	622122101009	HEMACHANDER.R	✓	✓	✓	✓	✓
9.	622122101010	INBARAJ.N	✓	✓	✓	✓	✓
10.	622122101011	JANANI.G	✓	✓	✓	✓	✓
11.	622122101012	JASVANTH	✓	✓	✓	✓	✓
12.	622122101013	KANNIKA.S	✓	✓	✓	✓	✓
13.	622122101014	KARTHICK.V	AB	AB	AB	AB	AB
14.	622122101016	MATHAVAN.S	✓	✓	✓	✓	✓
15.	622122101018	NABEEN BASHA.N	✓	✓	✓	✓	✓
16.	622122101020	NAVEENKUMAR.	✓	✓	✓	✓	✓
17.	622122101021	PARTHIBAN.P	✓	✓	✓	✓	✓
18.	622122101022	RAJESHWARI.T	✓	✓	✓	✓	✓
19.	622122101023	SATHIYAMOORTHI.R	✓	✓	✓	✓	✓
20.	622122101024	SHIRPY.P	AB	AB	AB	AB	AB
21.	622122101025	SUHAIB AHMED.F	✓	✓	✓	✓	✓
22.	622122101026	SURA ANIL	✓	✓	✓	✓	✓
23.	622122101027	TAMILARASAN.T	✓	✓	✓	✓	✓
24.	622122101028	THARANITHARAN	✓	✓	✓	✓	✓
25.	622122101029	THENNARASU.B	✓	✓	✓	✓	✓

26.	622122101030	THIRUMOORTHY.	✓	✓	✓	✓	✓
27.	622122101031	UDHAYAMOORTH	✓	✓	✓	✓	✓
28.	622122101032	VIJAY.K	✓	✓	✓	✓	✓
29.	622122101034	YOGESHKUMAR.R	AB	AB	AB	AB	AB

Course Coordinator

HoD

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

NH-44, PACHAL, NAMAKKAL -637018

VALUE ADDED COURSE

2023-2024

CERTIFICATE OF COMPLETION

CERTIFICATE IS PROUDLY PRESENTED TO ABISHEK.M, II-YEAR DEPARTMENT OF AERONAUTICAL ENGINEERING HAS SUCCESSFULLY COMPLETED 23AEVC301- NON DESTRUCTIVE TESTING COURSE 30HRS FROM 12.09.23 TO 16.09.23

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HOD / AERO

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NH-7, PACHAL Post, NAMAKKAL Dist

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Dr. M. PREMKUMAR
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VALUE ADDED COURSE

2023-2024

CERTIFICATE OF COMPLETION

CERTIFICATE IS PROUDLY PRESENTED TO DHARANI SRI.V, II-YEAR DEPARTMENT OF AERONAUTICAL ENGINEERING HAS SUCCESSFULLY COMPLETED 23AEVC301- NON DESTRUCTIVE TESTING COURSE 30HRS FROM 12.09.23 TO 16.09.23

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VALUE ADDED COURSE

2023-2024

CERTIFICATE OF COMPLETION

CERTIFICATE IS PROUDLY PRESENTED TO RAJESHWARI.T, II-YEAR DEPARTMENT OF AERONAUTICAL ENGINEERING HAS SUCCESSFULLY COMPLETED 23AEVC301- NON DESTRUCTIVE TESTING COURSE 30HRS FROM 12.09.23 TO 16.09.23

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VALUE ADDED COURSE

2023-2024

CERTIFICATE OF COMPLETION

CERTIFICATE IS PROUDLY PRESENTED TO TAMILARASAN.T, II-YEAR DEPARTMENT OF AERONAUTICAL ENGINEERING HAS SUCCESSFULLY COMPLETED 23AEVC301- NON DESTRUCTIVE TESTING COURSE 30HRS FROM 12.09.23 TO 16.09.23

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VALUE ADDED COURSE

2023-2024

CERTIFICATE OF COMPLETION

CERTIFICATE IS PROUDLY PRESENTED TO UDHAYAMOORTHY.M, II-YEAR DEPARTMENT OF AERONAUTICAL ENGINEERING HAS SUCCESSFULLY COMPLETED 23AEVC301- NON DESTRUCTIVE TESTING COURSE 30HRS FROM 12.09.23 TO 16.09.23

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DEPARTMENT OF AERONAUTICAL ENGINEERING

DATE: 07.09.2023

CIRCULAR

It is planned to conduct Five Days Value Added Course on "23AEVC501-ADVANCED AIRCRAFT MAINTENANCE" for Fifth semester students from 12.09.2023 to 16.09.2023. The interested students are asked to enroll their name to the course coordinator Mr. R.Ramachandra Prabhu AP/Aero,PEC on or before date. (Spot registration can also be permitted).

Course Co-ordinator:1. Mr. R.Ramachandra Prabhu AP/Aero,PEC

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(AUTONOMOUS)

DEPARTMENT OF AERONAUTICAL ENGINEERING

ADVANCED AIRCRAFT MAINTENANCE

ABOUT THE COURSE:

The Aircraft Maintenance is a niche course which deals with the maintenance, upgrade and quality assurance of aircraft. It is also a mix of theory and practice and the students also get ample exposure to the aviation industry

Who Can Join?

- II, III, IV Year of B.E,B.Tech– students
- Passionate to work in the aviation field.

Need for AIRCRAFT MAINTENANCE?

- Having an exploring nature and willingness to learn new things
- It is the most popular course for Engineers.
- The responsible and promising job in the aviation sector

Course Content:

- Introduction, Construction
- Performance, Lubrication system, Induction system
- Fuel system, Ignition System, Starting System
- Propeller, Maintenance
- Introduction, Inlet, Compressor
- Combustion, Turbine, Exhaust
- Fuel system, Lubrication system, Ignition System
- Starting, Thrust Augmentation, Material, Maintenance

Date: 12.09.2023 to 16.09.2023

Venue:

Aircraft Engine Lab,

Aeronautical Engineering Block

Paavai Engineering college

Course Incharge

- Mr. R.Ramachandra Prabhu AP/Aero,PEC

23AEVC501 **ADVANCED AIRCRAFT MAINTENANCE**

COURSE OBJECTIVE

To enable the students to

- acquire the knowledge of their relevant Advanced Aircraft Maintenance course
- develop their practical skills in maintenance

COURSE LAYOUT:

Module1: Introduction, Construction
Module2: Performance, Lubrication system, Induction system
Module3: Fuel system, Ignition System, Starting System
Module4: Propeller, Maintenance
Module5: Introduction, Inlet, Compressor
Module6: Combustion, Turbine, Exhaust
Module7: Fuel system, Lubrication system, Ignition System
Module8: Starting, Thrust Augmentation, Material, Maintenance

TOTAL PERIODS 30

COURSE OUTCOMES

Upon successful completion of this course, students will be able to

- gain the knowledge about Maintenance domain
- bridge the gap between theoretical concepts learned in college and industry practices

TEXT BOOK & MANUALS

- https://onlinecourses.nptel.ac.in/noc20_ae07/preview

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)
NAMAKKAL -637 018
DEPARTMENT OF AERONAUTICAL ENGINEERING

Academic Year 2023-2024

Attendance sheet

Year/Semester : III/V

Course Name : 23AEVC501- ADVANCED AIRCRAFT MAINTENANCE Date : 12.09.2023

S.No	Reg.No	Student Name	12.09.23	13.09.23	14.09.23	15.09.23	16.09.23
1.	622121101001	ANBUMANI.N	/	/	/	/	/
2.	622121101007	DHARSHINI.S	/	/	/	/	/
3.	622121101008	ELAKKIYA.S	/	/	/	/	/
4.	622121101011	KARPURAPU CHENCHU	/	/	/	/	/
5.	622121101012	KARTHIKEYAN.D	/	/	/	/	/
6.	622121101014	KOKILA.G	/	/	/	/	/
7.	622121101015	LOGESHWARAN.M	/	/	/	/	/
8.	622121101016	MADHESH ADHITHYA.S	/	/	/	/	/
9.	622121101017	MADUBALAN.G	AB	AB	AB	AB	AB
10.	622121101018	PERIKALA AKHILESH	/	/	/	/	/
11.	622121101019	RAMKUMAR.S	/	/	/	/	/
12.	622121101020	RITHIKA.B	/	/	/	/	/
13.	622121101022	SAKTHI.S	/	/	/	/	/
14.	622121101023	SAKTHIVEL.J	/	/	/	/	/
15.	622121101026	SIVAREDDY NIRANJA REDDY	/	/	/	/	/
16.	622121101027	SRIKANTH.M	/	/	/	/	/
17.	622121101028	SUBALRAJ.M	/	/	/	/	/
18.	622121101030	THIRUMALAI.E	/	/	/	/	/
19.	622121101031	THROVAGUNTA	/	/	/	/	/
20.	622121101032	UDHAYAKUMAR.S	/	/	/	/	/
21.	622121101033	VENGATACHALAM.S	/	/	/	/	/
22.	622121101501	VIJAY.V	/	/	/	/	/

Course Coordinator

HoD

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

NH-44, PACHAL, NAMAKKAL -637018

VALUE ADDED COURSE

2023-2024

CERTIFICATE OF COMPLETION

CERTIFICATE IS PROUDLY PRESENTED TO KARPURAPU CHENCHU JAYANTH, III-YEAR DEPARTMENT OF AERONAUTICAL ENGINEERING HAS SUCCESSFULLY COMPLETED 23AEVC501- ADVANCED AIRCRAFT MAINTENANCE COURSE 30HRS FROM 12.09.23 TO 16.09.23

HEAD OF THE DEPARTMENT
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NH-44, PACHAL, NAMAKKAL -637018

VALUE ADDED COURSE

2023-2024

CERTIFICATE OF COMPLETION

CERTIFICATE IS PROUDLY PRESENTED TO KOKILA.G, III-YEAR DEPARTMENT OF AERONAUTICAL ENGINEERING HAS SUCCESSFULLY COMPLETED 23AEVC501- ADVANCED AIRCRAFT MAINTENANCE COURSE 30HRS FROM 12.09.23 TO 16.09.23

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VALUE ADDED COURSE

2023-2024

CERTIFICATE OF COMPLETION

CERTIFICATE IS PROUDLY PRESENTED TO SAKTHI.S, III-YEAR DEPARTMENT OF AERONAUTICAL ENGINEERING HAS SUCCESSFULLY COMPLETED 23AEVC501- ADVANCED AIRCRAFT MAINTENANCE COURSE 30HRS FROM 12.09.23 TO 16.09.23

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VALUE ADDED COURSE

2023-2024

CERTIFICATE OF COMPLETION

CERTIFICATE IS PROUDLY PRESENTED TO VIJAY.V, III-YEAR DEPARTMENT OF AERONAUTICAL ENGINEERING HAS SUCCESSFULLY COMPLETED 23AEVC501- ADVANCED AIRCRAFT MAINTENANCE COURSE 30HRS FROM 12.09.23 TO 16.09.23

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VALUE ADDED COURSE

2023-2024

CERTIFICATE OF COMPLETION

CERTIFICATE IS PROUDLY PRESENTED TO ANBUMANI.N, III-YEAR DEPARTMENT OF AERONAUTICAL ENGINEERING HAS SUCCESSFULLY COMPLETED 23AEVC501- ADVANCED AIRCRAFT MAINTENANCE COURSE 30HRS FROM 12.09.23 TO 16.09.23

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DEPARTMENT OF AERONAUTICAL ENGINEERING

DATE: 07.09.2023

CIRCULAR

It is planned to conduct Five Days Value Added Course on "23AEVC701-UAV AND MAV OPERATIONS-ADVANCED" for Seventh semester students from 12.09.2023 to 16.09.2023. The interested students are asked to enroll their name to the course coordinator Dr.R.ARRAVIND HOD/AERO on or before date. (Spot registration can also be permitted).

Course Co-ordinator:1. Dr.R.ARRAVIND HOD/AERO

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PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)
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PAAVAI ENGINEERING COLLEGE

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DEPARTMENT OF AERONAUTICAL ENGINEERING

UAV AND MAV OPERATIONS-ADVANCED

ABOUT THE COURSE:

This course provides hands on experience on design, fabrication and flying of UAV category aircraft. Students will get in-depth skill set on design and fabrication techniques of UAV.

Who Can Join?

- II, III, IV Year of B.E,B.Tech– students
- Those who want to become a drone developers and pilots.

Need for UAV and MAV?

- Drone piloting can be a well-paying profession.
- It is the most popular course for Aeronautical Engineers.
- You have more job choices available to you.

Course Content:

1. Introduction to Avionics and navigation systems, Autopilot system
2. Introduction to Electro optical payload and other sensor payloads
3. Electro optical payload and other sensor payloads
4. Fabrication Techniques
5. Flight Trails and error rectification
6. Advanced real time applications of UAVs
7. R&D Projects

Date: 12.09.2023 to 16.09.2023

Venue:

Aircraft System Lab,
Aeronautical Engineering Block
Paavai Engineering college

Course Incharge

- Dr.R.ARRAVIND HOD/AERO

23AEVC701 **UAV AND MAV OPERATIONS-ADVANCED**

COURSE OBJECTIVES

To enable students to

- be put in for real time development projects
- solving various technical issues in the development

PROGRAMME CONTENT

1. Introduction to Avionics and navigation systems, Autopilot system
2. Introduction to Electro optical payload and other sensor payloads
3. Electro optical payload and other sensor payloads
4. Fabrication Techniques
5. Flight Trails and error rectification
6. Advanced real time applications of UAVs
7. R&D Projects

TOTAL PERIODS 30

COURSE OUTCOMES

Upon successful completion of this course, students will be able to

- bridge the gap between theoretical concepts learned in college and industry practices
- indulge in and complete real time industrial projects

TEXT BOOK & MANUALS

- https://ptgmedia.pearsoncmg.com/images/9780789755988/samplepages/9780789755988.pdf

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)
NAMAKKAL -637 018
DEPARTMENT OF AERONAUTICAL ENGINEERING

Academic Year 2023-2024

Attendance sheet

Year/Semester : IV/VII

Course Name : 23AEVC701- UAV AND MAV OPERATIONS-ADVANCED Date : 12.09.2023

S.No	Reg.No	Student Name	12.09.23	13.09.23	14.09.23	15.09.23	16.09.23
1.	20101001	ABIL.K	/	/	/	/	/
2.	20101002	ARSATHPARVEZ.M	/	/	/	/	/
3.	20101004	MANIVANNAN.R	/	/	/	/	/
4.	20101005	MOHAMEDALAMEEN.R	AB	AB	AB	AB	AB
5.	20101006	MOHAMMEDKAIF.S	/	/	/	/	/
6.	20101007	MURALI.M	/	/	/	/	/
7.	20101008	NANTHAKUMAR.A	/	/	/	/	/
8.	20101009	PUGALENDHI.A	/	/	/	/	/
9.	20101010	RADHA KRISHNAN.T	/	/	/	/	/
10.	20101011	RAGUL.D	/	/	/	/	/
11.	20101012	SANJAI.E	/	/	/	/	/
12.	20101013	SUSIGARAN.G	/	/	/	/	/
13.	20101014	THIRUMAL.A	/	/	/	/	/
14.	20101015	VIGNESHKUMAR.K	/	/	/	/	/
15.	20101017	VIMALRAJ.K	/	/	/	/	/
16.	20101018	YUVARAJ.R	/	/	/	/	/

Course Coordinator

HoD

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

NH-44, PACHAL, NAMAKKAL -637018

VALUE ADDED COURSE

2023-2024

CERTIFICATE OF COMPLETION

CERTIFICATE IS PROUDLY PRESENTED TO ABIL.K, IV-YEAR DEPARTMENT OF AERONAUTICAL ENGINEERING HAS SUCCESSFULLY COMPLETED 23AEVC701- UAV AND MAV OPERATIONS-ADVANCED COURSE 30HRS FROM 12.09.23 TO 16.09.23

HEAD OF THE DEPARTMENT
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NH-44, PACHAL, NAMAKKAL -637018

VALUE ADDED COURSE

2023-2024

CERTIFICATE OF COMPLETION

CERTIFICATE IS PROUDLY PRESENTED TO RAGUL.D, IV-YEAR DEPARTMENT OF AERONAUTICAL ENGINEERING HAS SUCCESSFULLY COMPLETED 23AEVC701- UAV AND MAV OPERATIONS-ADVANCED COURSE 30HRS FROM 12.09.23 TO 16.09.23

HEAD OF THE DEPARTMENT
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HOD / AERO

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VALUE ADDED COURSE

2023-2024

CERTIFICATE OF COMPLETION

CERTIFICATE IS PROUDLY PRESENTED TO MOHAMMEDKAIF.S, IV-YEAR DEPARTMENT OF AERONAUTICAL ENGINEERING HAS SUCCESSFULLY COMPLETED 23AEVC701- UAV AND MAV OPERATIONS-ADVANCED COURSE 30HRS FROM 12.09.23 TO 16.09.23

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VALUE ADDED COURSE

2023-2024

CERTIFICATE OF COMPLETION

CERTIFICATE IS PROUDLY PRESENTED TO VIMALRAJ.K, IV-YEAR DEPARTMENT OF AERONAUTICAL ENGINEERING HAS SUCCESSFULLY COMPLETED 23AEVC701- UAV AND MAV OPERATIONS-ADVANCED COURSE 30HRS FROM 12.09.23 TO 16.09.23

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DEPARTMENT OF AERONAUTICAL ENGINEERING

DATE: 12.03.2024

CIRCULAR

It is planned to conduct Five Days Value Added Course on "23AEVC401-COMPUTER AIDED DESIGN CATIA-BASIC" for Fourth semester students from 18.03.2024 to 22.03.2024. The interested students are asked to enroll their name to the course coordinator Mr.G.SASI,.AP/AERO on or before date. (Spot registration can also be permitted).

Course Co-ordinator:1. Mr.G.SASI AP/Aero

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DEPARTMENT OF AERONAUTICAL ENGINEERING

COMPUTER AIDED DESIGN CATIA-BASIC

ABOUT THE COURSE:

CATIA is an acronym for Computer Aided Three-dimensional Interactive Application. It is one of the leading 3D software used by organizations in multiple industries ranging from aerospace, automobile to consumer products..

Who Can Join?

- II, III, IV Year of B.E,B.Tech– students
- Those who want to become a Software Technician.
- The powerful professional aspirants.

Why CATIA?

- The CATIA suite is a powerful design tool that is growing in popularity due to the powerful functionality it offers
- It is the most popular solid modeller,
- You have more job choices available to you internationally.

Course Content:

- Introduction to
  - CATIA
  - SKETCHER WORKBENCH

Date: 18.03.2024 to 22.03.2024

Venue:

Software lab,

Core Engineering Block

Paavai Engineering college

Course Incharge: Mr.G.SASI AP/Aero,PEC

23AEVC401 **COMPUTER AIDED DESIGN CATIA-BASIC**

COURSE OBJECTIVE

To enable the students to

- gain strong ground on solid modeling techniques that would enhance the productivity in modeling
- develop the analysis process of mechanical components.
-

INTRODUCTION TO CATIA

Introduction to CATIA-History of CATIA-CATIA modeling process, Parametric design concept, feature based design etc-CATIA Features-SKETCHER-Creating a new part.

SKETCHER WORKBENCH

Basic sketch, Sketch in task environment, Selection tools-Profile, Predefined shapes, Circles, Spline, Conics, Line, Points-Operations, Corner, Chamfer, Relimitation tools-Projections, Transformations-Constraints, Sketch tools, Grid, Snap on grid, Construction-Geometrical constraints, Dimensional constraints., Sketch analysis-Visualization tools, View tool bar, Workbench

TOTAL PERIODS 30

COURSE OUTCOMES

Upon completion of this course, the students would have

- Learnt advanced solutions for conceptual design, 3D modelling, and documentation.
- Learnt to do product design, industrial design and styling (optimize form, fit, function and user experience), streamline 2D design, drafting, documentation with powerful tools for layout.

TEXT BOOK & MANUALS

- Jonathan M. Weaver, Nader G. Zamani CATIA V5 Tutorials Mechanism Design & Animation Release 20

PAAVAI ENGINEERING COLLEGE
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DEPARTMENT OF AERONAUTICAL ENGINEERING

Academic Year 2022-2023

Attendance sheet

Year/Semester : II/IV

Course Name : 23AEVC401-COMPUTER AIDED DESIGN CATIA-BASIC Date : 18.03.2024

S.No	Reg.No	Student Name	18.03.24	19.03.24	20.03.24	21.03.24	22.03.24
1.	622122101001	ABISHEK.M	✓	✓	✓	✓	✓
2.	622122101003	ANANDH.C	✓	✓	✓	✓	✓
3.	622122101004	BALA.G	AB	AB	AB	AB	AB
4.	622122101005	DHARANI SRI.V	✓	✓	✓	✓	✓
5.	622122101006	GIRIRAJ.R	✓	✓	✓	✓	✓
6.	622122101007	GOWTHAM.V	✓	✓	✓	✓	✓
7.	622122101008	GURUNATHAN.K	✓	✓	✓	✓	✓
8.	622122101009	HEMACHANDER.R	✓	✓	✓	✓	✓
9.	622122101010	INBARAJ.N	✓	✓	✓	✓	✓
10.	622122101011	JANANI.G	✓	✓	✓	✓	✓
11.	622122101012	JASVANTH [redacted]	✓	✓	✓	✓	✓
12.	622122101013	KANNIKA.S	✓	✓	✓	✓	✓
13.	622122101014	KARTHICK.V	AB	AB	AB	AB	AB
14.	622122101016	MATHAVAN.S	✓	✓	✓	✓	✓
15.	622122101018	NABEEN BASHA.N	✓	✓	✓	✓	✓
16.	622122101020	NAVEENKUMAR. [redacted]	✓	✓	✓	✓	✓
17.	622122101021	PARTHIBAN.P	✓	✓	✓	✓	✓
18.	622122101022	RAJESHWARI.T	✓	✓	✓	✓	✓
19.	622122101023	SATHIYAMOORTHI.R	✓	✓	✓	✓	✓
20.	622122101024	SHIRPY.P	AB	AB	AB	AB	AB
21.	622122101025	SUHAIB AHMED.F	✓	✓	✓	✓	✓
22.	622122101026	SURA ANIL [redacted]	✓	✓	✓	✓	✓
23.	622122101027	TAMILARASAN.T	✓	✓	✓	✓	✓
24.	622122101028	THARANITHARAN [redacted]	✓	✓	✓	✓	✓
25.	622122101029	THENNARASU.B	✓	✓	✓	✓	✓

26.	622122101030	THIRUMOORTHY.	/	/	/	/	/
27.	622122101031	UDHAYAMOORTH	/	/	/	/	/
28.	622122101032	VIJAY.K	/	/	/	/	/
29.	622122101034	YOGESHKUMAR.R	AB	AB	AB	AB	AB

Course Coordinator

HoD

PAAVAI ENGINEERING COLLEGE

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NH-44, PACHAL, NAMAKKAL -637018

VALUE ADDED COURSE

2023-2024

CERTIFICATE OF COMPLETION

CERTIFICATE IS PROUDLY PRESENTED TO GOWTHAM.V, II-YEAR DEPARTMENT OF AERONAUTICAL ENGINEERING HAS SUCCESSFULLY COMPLETED 23AEVC401-COMPUTER AIDED DESIGN CATIA-BASIC COURSE 30HRS FROM 18.03.24 TO 22.03.24

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VALUE ADDED COURSE

2023-2024

CERTIFICATE OF COMPLETION

CERTIFICATE IS PROUDLY PRESENTED TO KANNIKA.S, II-YEAR DEPARTMENT OF AERONAUTICAL ENGINEERING HAS SUCCESSFULLY COMPLETED 23AEVC401-COMPUTER AIDED DESIGN CATIA-BASIC COURSE 30HRS FROM 18.03.24 TO 22.03.24

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VALUE ADDED COURSE

2023-2024

CERTIFICATE OF COMPLETION

CERTIFICATE IS PROUDLY PRESENTED TO PARTHIBAN.P, II-YEAR DEPARTMENT OF AERONAUTICAL ENGINEERING HAS SUCCESSFULLY COMPLETED 23AEVC401-COMPUTER AIDED DESIGN CATIA-BASIC COURSE 30HRS FROM 18.03.24 TO 22.03.24

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VALUE ADDED COURSE

2023-2024

CERTIFICATE OF COMPLETION

CERTIFICATE IS PROUDLY PRESENTED TO SUHAIB AHMED.F, II-YEAR DEPARTMENT OF AERONAUTICAL ENGINEERING HAS SUCCESSFULLY COMPLETED 23AEVC401-COMPUTER AIDED DESIGN CATIA-BASIC COURSE 30HRS FROM 18.03.24 TO 22.03.24

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VALUE ADDED COURSE

2023-2024

CERTIFICATE OF COMPLETION

CERTIFICATE IS PROUDLY PRESENTED TO VIJAY.K, II-YEAR DEPARTMENT OF AERONAUTICAL ENGINEERING HAS SUCCESSFULLY COMPLETED 23AEVC401-COMPUTER AIDED DESIGN CATIA-BASIC COURSE 30HRS FROM 18.03.24 TO 22.03.24

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DEPARTMENT OF AERONAUTICAL ENGINEERING

DATE: 12.03.2024

CIRCULAR

It is planned to conduct Five Days Value Added Course on "23AEVC601-COMPUTER AIDED ANALYSIS HYPERMESH" for Sixth semester students from 18.03.2024 to 22.03.2024. The interested students are asked to enroll their name to the course coordinator Mr.K.Gokulnath,.AP/AERO on or before date. (Spot registration can also be permitted).

Course Co-ordinator:1. Mr.K.Gokulnath AP/Aero

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DEPARTMENT OF AERONAUTICAL ENGINEERING

COMPUTER AIDED ANALYSIS HYPERMESH

ABOUT THE COURSE:

HyperMesh supports a wide variety of CAD and solver interfaces, making it a perfect solution for most industry verticals and domains. With its advanced geometry and meshing capabilities, HyperMesh provides an environment for rapid model generation.

Who Can Join?

- II, III, IV Year of B.E,B.Tech– students
- Those who want to become a Software Technician.
- The powerful professional aspirants.

Why HYPERMESH?

- Modelling of laminate composites is supported.
- Advanced creation, editing and visualization tools.
- Design changes can be made easily via mesh morphing and geometry dimensioning.

Course Content:

Introduction to

- HYPERMESH
- OPTISTRUCT
- MESHING
- OPTIMIZATION

Date: 18.03.2024 to 22.03.2024

Venue:

Software lab,
Core Engineering Block
Paavai Engineering College

Course Incharge

- Mr.K.Gokulnath AP/Aero,PEC

23AEVC601 COMPUTER AIDED ANALYSIS HYPERMESH

COURSE OBJECTIVES

To enable the students to

- use basic and advanced features of Analysis
- understand how CAE technology can be leveraged in the analysis process.

HYPERMESH

Basic modeling, Geometry cleanup, Organizing the model with collectors, Extracting mid surfaces & simplifying, Selecting the user Profiles, Project, Numbering, Mask, Normals, Interactive surface meshing, Element density, Algorithms, Checking element quality. Introduction to solid meshing: Solid panels, Drag, spin, Line drag, element offset, linear solid.

OPTISTRUCT

Linear Static Analysis, Thermal Analysis, Modal Analysis, Harmonic Analysis, Inertia Relief Analysis.

OPTIMIZATION

Topology, optimization for solid problems, Optimization for stress problems

HYPERMORPH

morph volumes, Morph to geometry, freehand morph, morph options

TOTAL PERIODS: 30

COURSEOUTCOMES

Upon completion of this course the student will

- demonstrate competency with multiple analysis
- apply industry standards in the preparation of mechanical analysis

TEXT BOOK & MANUALS

- https://imechanica.org/files/HM%20Advanced%20Training.pdf

PAAVAI ENGINEERING COLLEGE
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DEPARTMENT OF AERONAUTICAL ENGINEERING

Academic Year 2023-2024

Attendance sheet

Year/Semester : III/VI

Course Name : 23AEVC601- COMPUTER AIDED ANALYSIS HYPERMESH Date : 18.03.2024

S.No	Reg.No	Student Name	18.03.24	19.03.24	20.03.24	21.03.24	22.03.24
1.	622121101001	ANBUMANI.N	✓	✓	✓	✓	✓
2.	622121101007	DHARSHINI.S	✓	✓	✓	✓	✓
3.	622121101008	ELAKKIYA.S	✓	✓	✓	✓	✓
4.	622121101011	KARPURAPU CHENCHU JAYANTH	✓	✓	✓	✓	✓
5.	622121101012	KARTHIKEYAN.D	✓	✓	✓	✓	✓
6.	622121101014	KOKILA.G	✓	✓	✓	✓	✓
7.	622121101015	LOGESHWARAN.M	✓	✓	✓	✓	✓
8.	622121101016	MADHESH ADHITHYA.S	✓	✓	✓	✓	✓
9.	622121101017	MADUBALAN.G	AB	AB	AB	AB	AB
10.	622121101018	PERIKALA AKHILESH	✓	✓	✓	✓	✓
11.	622121101019	RAMKUMAR.S	✓	✓	✓	✓	✓
12.	622121101020	RITHIKA.B	✓	✓	✓	✓	✓
13.	622121101022	SAKTHI.S	✓	✓	✓	✓	✓
14.	622121101023	SAKTHIVEL.J	✓	✓	✓	✓	✓
15.	622121101026	SIVAREDDY NIRANJA REDDY	✓	✓	✓	✓	✓
16.	622121101027	SRIKANTH.M	✓	✓	✓	✓	✓
17.	622121101028	SUBALRAJ.M	✓	✓	✓	✓	✓
18.	622121101030	THIRUMALAI.E	✓	✓	✓	✓	✓
19.	622121101031	THROVAGUNTA [redacted]	✓	✓	✓	✓	✓
20.	622121101032	UDHAYAKUMAR.S	✓	✓	✓	✓	✓
21.	622121101033	VENGATACHALAM.S	✓	✓	✓	✓	✓
22.	622121101501	VIJAY.V	✓	✓	✓	✓	✓

Course Coordinator

HoD

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

NH-44, PACHAL, NAMAKKAL -637018

VALUE ADDED COURSE

2023-2024

CERTIFICATE OF COMPLETION

CERTIFICATE IS PROUDLY PRESENTED TO ELAKKIYA.S, III-YEAR DEPARTMENT OF AERONAUTICAL ENGINEERING HAS SUCCESSFULLY COMPLETED 23AEVC601- COMPUTER AIDED ANALYSIS HYPERMESH COURSE 30HRS FROM 18.03.24 TO 22.03.24

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VALUE ADDED COURSE

2023-2024

CERTIFICATE OF COMPLETION

CERTIFICATE IS PROUDLY PRESENTED TO SAKTHIVEL.J, III-YEAR DEPARTMENT OF AERONAUTICAL ENGINEERING HAS SUCCESSFULLY COMPLETED 23AEVC601- COMPUTER AIDED ANALYSIS HYPERMESH COURSE 30HRS FROM 18.03.24 TO 22.03.24

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VALUE ADDED COURSE

2023-2024

CERTIFICATE OF COMPLETION

CERTIFICATE IS PROUDLY PRESENTED TO VENGATACHALAM.S, III-YEAR DEPARTMENT OF AERONAUTICAL ENGINEERING HAS SUCCESSFULLY COMPLETED 23AEVC601- COMPUTER AIDED ANALYSIS HYPERMESH COURSE 30HRS FROM 18.03.24 TO 22.03.24

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VALUE ADDED COURSE

2023-2024

CERTIFICATE OF COMPLETION

CERTIFICATE IS PROUDLY PRESENTED TO MADHESH ADHITHYA.S, III-YEAR DEPARTMENT OF AERONAUTICAL ENGINEERING HAS SUCCESSFULLY COMPLETED 23AEVC601- COMPUTER AIDED ANALYSIS HYPERMESH COURSE 30HRS FROM 18.03.24 TO 22.03.24

HEAD OF THE DEPARTMENT
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VALUE ADDED COURSE

2023-2024

CERTIFICATE OF COMPLETION

CERTIFICATE IS PROUDLY PRESENTED TO PERIKALA AKHILESH, III-YEAR DEPARTMENT OF AERONAUTICAL ENGINEERING HAS SUCCESSFULLY COMPLETED 23AEVC601- COMPUTER AIDED ANALYSIS HYPERMESH COURSE 30HRS FROM 18.03.24 TO 22.03.24

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DEPARTMENT OF AERONAUTICAL ENGINEERING

DATE: 12.03.2024

CIRCULAR

It is planned to conduct Five Days Value Added Course on "23AEVC801-COMPUTER AIDED ANALYSIS ANSYS" for Eighth semester students from 18.03.2024 to 22.03.2024. The interested students are asked to enroll their name to the course coordinator Mr.P.Prasanna,.AP/AERO on or before date. (Spot registration can also be permitted).

Course Co-ordinator:1. Mr.P.Prasanna AP/Aero

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DEPARTMENT OF AERONAUTICAL ENGINEERING

VALUE ADDED COURSE
ON
COMPUTER AIDED ANALYSIS ANSYS

ABOUT THE COURSE:

Ansys develops and markets engineering simulation software for use across the product life cycle. Ansys Mechanical finite element analysis software that has been extensively validated across a wide range of applications

Who Can Join?

- II, III, IV Year of B.E,B.Tech– students
- Those who want to become a Software Technician.
- The powerful professional aspirants.

Why ANSYS?

- User-Friendly Interface
- Single Window, Streamlined Workflow
- Parallel Capabilities for Meshing and Solving

Course Content:

Introduction to

- CFD
- MODELING
- MESHING

STRUCTURAL ANALYSIS

Date: 18.03.2024 to 22.03.2024

Venue:

Software lab,
Core Engineering Block
Paavai Engineering College

Course Incharge

- Mr.P.Prasanna AP/Aero,PEC

23AEVC801 **COMPUTER AIDED ANALYSIS ANSYS**

COURSE OBJECTIVES

To enable the students to

- Use basic and advanced features of Analysis
- Understand how CAE technology can be leveraged in the analysis process.

INTRODUCTION TO FEA & ANSYS

GUI, Basics & general analysis procedure.

MODELING

Creating Solid model, Finite element modeling and importing models, Select Entities and Component manager.

MESHING

Quad and Tetrahedron mesh, Volumes, Areas, Line meshing. Free and mapped meshing, check mesh.

STRUCTURAL ANALYSIS

Static, Modal, Harmonic, Spectrum, p-method, Nonlinear & Transient analysis.

THERMAL ANALYSIS

Steady state thermal analysis.

ANSYS WORKBENCH

Simulation, CFX Mesh, Engineering Data sheet and FE modeler.

TOTAL PERIODS **30**

COURSEOUTCOMES

Upon completion of this course the student will

- demonstrate competency with multiple analysis
- apply industry standards in the preparation of mechanical analysis

TEXT BOOK & MANUALS

- https://www.hpc.kaust.edu.sa/sites/default/files/files/public/ANSYS_Workshop/2017/5.ANSYS-Mechanical.pdf

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)
NAMAKKAL -637 018
DEPARTMENT OF AERONAUTICAL ENGINEERING

Academic Year 2023-2024

Attendance sheet

Year/Semester : IV/VIII

Course Name : 23AEVC801- COMPUTER AIDED ANALYSIS ANSYS Date : 18.03.2024

S.No	Reg.No	Student Name	18.03.24	19.03.24	20.03.24	21.03.24	22.03.24
1.	20101001	ABIL.K	/	/	/	/	/
2.	20101002	ARSATHPARVEZ.M	/	/	/	/	/
3.	20101004	MANIVANNAN.R	/	/	/	/	/
4.	20101005	MOHAMEDALAMEEN.R	AB	AB	AB	AB	AB
5.	20101006	MOHAMMEDKAIF.S	/	/	/	/	/
6.	20101007	MURALI.M	/	/	/	/	/
7.	20101008	NANTHAKUMAR.A	/	/	/	/	/
8.	20101009	PUGALENDHI.A	/	/	/	/	/
9.	20101010	RADHA KRISHNAN.T	/	/	/	/	/
10.	20101011	RAGUL.D	/	/	/	/	/
11.	20101012	SANJAI.E	/	/	/	/	/
12.	20101013	SUSIGARAN.G	/	/	/	/	/
13.	20101014	THIRUMAL.A	/	/	/	/	/
14.	20101015	VIGNESHKUMAR.K	/	/	/	/	/
15.	20101017	VIMALRAJ.K	/	/	/	/	/
16.	20101018	YUVARAJ.R	/	/	/	/	/

Course Coordinator

HoD

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

NH-44, PACHAL, NAMAKKAL -637018

VALUE ADDED COURSE

2023-2024

CERTIFICATE OF COMPLETION

CERTIFICATE IS PROUDLY PRESENTED TO ARSATHPARVEZ.M, IV-YEAR DEPARTMENT OF AERONAUTICAL ENGINEERING HAS SUCCESSFULLY COMPLETED 23AEVC801- COMPUTER AIDED ANALYSIS ANSYS COURSE 30HRS FROM 18.03.24 TO 22.03.24

HEAD OF THE DEPARTMENT
DEPARTMENT OF AERONAUTICAL ENGINEERING
PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)
PACHAL, NAMAKKAL - 637 018

.....

Dr. R. ARRAVIND
HOD / AERO

PRINCIPAL
PAAVAI ENGINEERING COLLEGE
NH-7, PACHAL Post, NAMAKKAL Dist

.....

Dr. M. PREMKUMAR
PRINCIPAL / PEC

"We Make Everything Fly"

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

NH-44, PACHAL, NAMAKKAL -637018

VALUE ADDED COURSE

2023-2024

CERTIFICATE OF COMPLETION

CERTIFICATE IS PROUDLY PRESENTED TO PUGALENDHI.A, IV-YEAR DEPARTMENT OF AERONAUTICAL ENGINEERING HAS SUCCESSFULLY COMPLETED 23AEVC801- COMPUTER AIDED ANALYSIS ANSYS COURSE 30HRS FROM 18.03.24 TO 22.03.24

HEAD OF THE DEPARTMENT
DEPARTMENT OF AERONAUTICAL ENGINEERING
PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)
PACHAL, NAMAKKAL - 637 018

.....

Dr. R. ARRAVIND
HOD / AERO

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PAAVAI ENGINEERING COLLEGE
NH-7, PACHAL Post, NAMAKKAL Dist

.....

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PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

NH-44, PACHAL, NAMAKKAL -637018

VALUE ADDED COURSE

2023-2024

CERTIFICATE OF COMPLETION

CERTIFICATE IS PROUDLY PRESENTED TO THIRUMAL.A, IV-YEAR DEPARTMENT OF AERONAUTICAL ENGINEERING HAS SUCCESSFULLY COMPLETED 23AEVC801- COMPUTER AIDED ANALYSIS ANSYS COURSE 30HRS FROM 18.03.24 TO 22.03.24

HEAD OF THE DEPARTMENT
DEPARTMENT OF AERONAUTICAL ENGINEERING
PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)
PACHAL, NAMAKKAL - 637 018

.....

Dr. R. ARRAVIND
HOD / AERO

PRINCIPAL
PAAVAI ENGINEERING COLLEGE
NH-7, PACHAL Post, NAMAKKAL Dist

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PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

NH-44, PACHAL, NAMAKKAL -637018

VALUE ADDED COURSE

2023-2024

CERTIFICATE OF COMPLETION

CERTIFICATE IS PROUDLY PRESENTED TO YUVARAJ.R, IV-YEAR DEPARTMENT OF AERONAUTICAL ENGINEERING HAS SUCCESSFULLY COMPLETED 23AEVC801- COMPUTER AIDED ANALYSIS ANSYS COURSE 30HRS FROM 18.03.24 TO 22.03.24

HEAD OF THE DEPARTMENT
DEPARTMENT OF AERONAUTICAL ENGINEERING
PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)
PACHAL, NAMAKKAL - 637 018

.....

Dr. R. ARRAVIND
HOD / AERO

PRINCIPAL
PAAVAI ENGINEERING COLLEGE
NH-7, PACHAL Post, NAMAKKAL Dist

.....

Dr. M. PREMKUMAR
PRINCIPAL / PEC

"We Make Everything Fly"

PAAVAI ENGINEERING COLLEGE,NAMAKKAL-637018

(AUTONOMOUS)

DEPARTMENT OF B.E.CSE (AI and ML)

DATE : 08.09.2023

CIRCULAR

It is Planned to conduct Value Added Course on "23MLVC301 - Introduction to AI Tools, ChatGPT and IOT" for the students of Second year (Odd Semester) in the AY 2023-24 from 12.09.2023 to 16.09.2023. The interested Students are asked to enroll their names to the course coordinator Mrs. A. Rathipriya, AP/AIML on or before 11.09.2023

Course Cordinator: Mrs.A.Rathipriya,AP/AIML

HOD/CSE(AIML)

Head of the Department
Department of B.E.,CSE (AI and ML)
Paavai Engineering College (Autonomous)
Namakkal – 637 018, Tamilnadu, India.

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PAAVAI ENGINEERING COLLEGE,NAMAKKAL-637018

(AUTONOMOUS)

DEPARTMENT OF B.E.CSE(AI and ML)

VALUE ADDED COURSE

23MLVC301 – INTRODUCTION TO AI TOOLS ,CHATGPT AND IOT

- Introduction to AI is, its history, and its key features. Learn about ChatGPT, search engines and other chatbots, like Bard, and Gemini.
- Role of ChatGPT in Your Daily Life: Learn about prompt engineering and how ChatGPT can be a helpful guide in the matter of Healthcare, Career
- **How do the internet of things and AI work together?**

DATE: 12/09/2023 to 16/09/2023

VENUE: CLASSROOM T 229

COURSE IN CHARGE: Mrs .A.RATHIPRIYA

23MLVC301 INTRODUCTION TO AI TOOLS, CHATGPT AND IOT

COURSE OBJECTIVE

To enable the students to

- build your confidence in working with Artificial Intelligence and ChatGPT
- learn about the algorithms that drive AI, the Ethics of AI Technology,
- implement ChatGPT in practical scenarios.
- understand the definition and significance of the Internet of Things.
- discuss the architecture, operation, and business benefits of an IoT solution.

MODULE I:

Introduction-What is AI? – History of AI – Features of AI - Importance of AI – What is ChatGPT? – Difference between ChatGPT and Search Engines -Difference between AI and Robots – Benefits of AI – Limitations and Challenges of AI - Internet of Things -History, Domains – IOT is Everywhere – Smart home (examples)-advantages , disadvantages-

TOTAL PERIODS:30

COURSE OUTCOMES

Upon the completion of this course, the students will be able to

- Identify problems where artificial intelligence techniques are applicable
- Identify appropriate AI methods to solve a given problem.

PAAVAI ENGINEERING COLLEGE , MAKKAL-637018

(AUTONOMOUS)

NAMMAKAL

DEPARTMENT OF B.E.CSE(AI and ML)

Academic Year : 2023-24

VALUE ADDED COURSE

ATTENDANCE SHEET

Year/Semester : II/III

Name of the Course : INTRODUCTION TO AI TOOLS, CHATGPT AND IOT

Course Code : 23MLVC301

SNO	REGISTER NUMBER	STUDENT NAME	12/09/23	13/09/23	14/09/23	15/09/23	16/09/23
1.	622122112001	AKASH SRI A	/	/	/	/	/
2.	622122112002	AKSHITHA.R	a	a	/	/	/
3.	622122112003	ANISH KLINTON. P	/	/	/	/	/
4.	622122112004	ANUSHALI V	/	/	/	/	/
5.	622122112005	ARUNACHALAM S. R	/	/	/	/	/
6.	622122112006	ASHWIN KUMAR.S	/	/	/	/	/
7.	622122112007	ATLA MUKESH	/	/	/	/	/
8.	622122112008	CHEEMAKURTHI KUMAR	/	/	a	/	/
9.	622122112009	CHERRI JASNAVI	/	/	/	/	/
10.	622122112010	CHITTE LAKSHMI NARASIMHA	/	/	/	/	/
11.	622122112011	DAMA MANIVARDHAN	/	/	/	/	/
12.	622122112012	DHANISH B	/	/	/	/	/
13.	622122112014	DHARSAN S	/	/	/	/	/
14.	622122112015	DIVYA SRI.M	/	/	/	/	/
15.	622122112016	EKANTH REDDY.S	a	/	/	/	/
16.	622122112017	FAHAD MISHAL V A	/	/	/	/	/
17.	622122112018	GANGERI CHAITANYA	/	/	/	/	/
18.	622122112019	GUGAN.M	/	/	/	/	/
19.	622122112020	HARI.E	/	/	/	/	/
20.	622122112021	HARINI.M	/	/	/	/	/
21.	622122112022	HARISH.P	a	/	/	/	/
22.	622122112023	HARITHA.B	/	/	/	/	/
23.	622122112024	IMTHIYAS.M	/	/	/	/	/
24.	622122112025	JAI SURYA.S	/	/	/	/	/
25.	622122112026	JEEVANANDAN V	/	/	/	/	/
26.	622122112027	KHASIF KHAN C	/	/	/	/	/

27.	622122112028	LALITHAMBIGAI.S	/	/	/	/	/
28.	622122112029	LAVANYA.V	/	/	/	/	/
29.	622122112030	LIBIN RAJAN A	/	/	/	/	/
30.	622122112031	LOGA CHANDRAN.N	/	/	/	/	/
31.	622122112032	LOGESH.K	/	/	/	/	/
32.	622122112033	MANISHA.K	/	/	/	/	/
33.	622122112034	MARK ANTONY M	/	a	/	/	/
34.	622122112035	MOHAMMED ARSHAD.A	/	/	/	/	/
35.	622122112036	MUGESHWARAN.N	/	/	/	/	/
36.	622122112037	MUHAMMAD AJNAS	/	/	/	/	/
37.	622122112038	MUHAMMED ANSIL M A	/	/	/	/	/
38.	622122112039	MUHMMAD MIDLAJ NA	/	/	/	/	/
39.	622122112040	MUHAMMED RINSHAD K	/	/	/	/	/
40.	622122112041	MUKESH.P.S	/	/	/	/	/
41.	622122112042	MUKESH.S	a	a	/	/	/
42.	622122112044	NANDHINI R	/	/	/	/	/
43.	622122112045	NIBIN CHANDRAN R	/	/	/	/	/
44.	622122112046	NIRMALA P	/	/	/	/	/
45.	622122112047	NITHISH KUMAR.R	/	/	/	/	/
46.	622122112048	NIYAN FARIS	/	/	/	/	/
47.	622122112049	POLA TANMAI	/	/	/	/	/
48.	622122112050	PRADEEP.R	/	/	/	/	/
49.	622122112051	PRAGATHISHWARI B.R	/	/	/	/	/
50.	622122112052	RAHUL R	/	/	/	/	/
51.	622122112053	RAKSHANA A.K	/	/	/	/	/
52.	622122112054	SAMA ANJUM. T	/	/	/	/	/
53.	622122112055	SANTHOSH B.K	/	/	/	/	/
54.	622122112056	SHAIK BAJIBABA	a	a	/	/	/
55.	622122112057	SHAM SUNDAR.M.D	/	/	/	/	/
56.	622122112058	VASIKARAN.V	/	/	/	/	/
57.	622122112059	VELMURUGAN.S	/	/	/	/	/
58.	622122112060	VIGNESH.S	/	/	/	/	/
59.	622122112061	VIJAY ASHWIN.K	/	/	/	/	/
60.	622122112062	VIJAY.M	/	/	/	/	/

COURSE COORDINATOR

HOD/CSE(AIML)

Head of the Department
Department of B.E.,CSE (AI and ML)
Paaval Engineering College (Autonomous)
Namakkal – 637 018, Tamilnadu, India.

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering(Artificial Intelligence and Machine Learning)

CERTIFICATE

This is to certify that

ANISH KLINTON P

of Paavai Engineering College, studying in **Second year** has successfully completed the Value added Course- Introduction to AI tools, ChatGPT and IoT. The duration of the Course is 30 hours.

(12/09/2023 to 16/09/2023).

Course Incharge HoD Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning)

CERTIFICATE

This is to certify that

FAHAD MISHAL V A

of Paavai Engineering College, studying in **Second year** has successfully completed the Value added Course- Introduction to AI tools, ChatGPT and IoT. The duration of the Course is 30 hours.

(12/09/2023 to 16/09/2023).

Course Incharge HoD Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning)

CERTIFICATE

This is to certify that

MANISHA K

of Paavai Engineering College, studying in **Second year** has successfully completed the Value added Course- Introduction to AI tools, ChatGPT and IoT. The duration of the Course is 30 hours.

(12/09/2023 to 16/06/2023).

Course Incharge | HoD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning)

CERTIFICATE

This is to certify that

LIBIN RAJAN A

of Paavai Engineering College, studying in **Second year** has successfully completed the Value added Course- Introduction to AI tools, ChatGPT and IoT. The duration of the Course is 30 hours.

(12/09/2023 to 16/09/2023).

Course Incharge | HoD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning)

CERTIFICATE

This is to certify that

NIRMALA P

of Paavai Engineering College, studying in **Second year** has successfully completed the Value added Course- Introduction to AI tools, ChatGPT and IoT. The duration of the Course is 30 hours.

(12/09/2023 to 16/09/2023).

Course Incharge	HoD	Principal

PAAVAI ENGINEERING COLLEGE, NAMMAKAL - 637018

(AUTONOMOUS)

DEPARTMENT OF B.E.CSE(AI and ML)

DATE : 14.02.2024

CIRCULAR

It is Planned to conduct Value Added Course on “Ethical Hacking” for the students of Second year (Even Semester) in the AY 2023-24 from 18.03.2024 to 22.03.2024. The interested Students are asked to enroll their names to the course coordinator Mr S.Vangili,AP/AIML on or before 16.03.2023

Course Cordinator: Mr S.Vangili,AP/AIML

HOD/CSE(AIML)

Head of the Department
Department of B.E.,CSE (AI and ML)
Paavai Engineering College (Autonomous)
Namakkal – 637 018, Tamilnadu, India.

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PAAVAI ENGINEERING COLLEGE,NAMAKKAL-637018

(AUTONOMOUS)

DEPARTMENT OF B.E.CSE(AI and ML)

VALUE ADDED COURSE

ETHICAL HACKING

Ethical Hacking is Used to Learn the Frensics investigator, security investigator, network security system administrator/ manager, web security administrator, application security executive

DATE : 18/03/2024 to 22/03/2024

VENUE: CLASS ROOM T 229

COURSE INCHARGE : Mr S.Vangili

ETHICAL HACKING

COURSE OBJECTIVE

To enable the students to

- identify and fix vulnerabilities in systems, networks, or applications

MODULE I

Basic Python – Network Basis – Linux Scripting – Hacking

TOTAL PERIODS 30

COURSE OUTCOMES

Upon the completion of this course, the students will be able to

- Students can learn how to identify and manage risks to networks, systems, and applications
- Students can learn to identify vulnerabilities in networks, systems, and applications

PAAVAI ENGINEERING COLLEGE, NAMMAKAL

(AUTONOMOUS)

DEPARTMENT OF B.E.CSE (AI and ML)

Academic Year : 2023-24

VALUE ADDED COURSE

ATTENDANCE SHEET

Year/Semester : II/IV

Name of the Course : ETHICAL HACKING

Course Code : 23MLVC401

SNO	REGISTER NUMBER	STUDENT NAME	18/03/24	19/03/24	20/03/24	21/03/24	22/03/24
1.	622122112001	AKASH SRI A	/	/	/	/	/
2.	622122112002	AKSHITHA.R	/	a	a	/	/
3.	622122112003	ANISH KLINTON. P	/	/	/	/	/
4.	622122112004	ANUSHALI V	/	/	/	/	/
5.	622122112005	ARUNACHALAM S. R	/	/	/	/	/
6.	622122112006	ASHWIN KUMAR.S	/	/	/	/	/
7.	622122112007	ATLA MUKESH	/	/	/	/	/
8.	622122112008	CHEEMAKURTHI KUMAR	a	/	/	/	/
9.	622122112009	CHERRI JASNAVI	/	/	/	/	/
10.	622122112010	CHITTE LAKSHMI NARASIMHA	/	/	/	/	/
11.	622122112011	DAMA MANIVARDHAN	/	/	/	/	/
12.	622122112012	DHANISH B	/	/	/	/	/
13.	622122112014	DHARSAN S	/	/	/	/	/
14.	622122112015	DIVYA SRI.M	/	/	/	/	/
15.	622122112016	EKANTH REDDY.S	/	/	/	/	/
16.	622122112017	FAHAD MISHAL V A	/	/	/	/	/
17.	622122112018	GANGERI CHAITANYA	/	/	/	/	/
18.	622122112019	GUGAN.M	/	/	/	/	/
19.	622122112020	HARI.E	/	/	/	/	/
20.	622122112021	HARINI.M	/	/	/	/	/
21.	622122112022	HARISH.P	a	/	/	/	/
22.	622122112023	HARITHA.B	/	/	/	/	/
23.	622122112024	IMTHIYAS.M	/	/	/	/	/
24.	622122112025	JAI SURYA.S	/	/	/	/	/
25.	622122112026	JEEVANANDAN V	/	/	/	/	/
26.	622122112027	KHASIF KHAN C	/	/	/	/	/
27.	622122112028	LALITHAMBIGAI.S	/	/	/	/	/

28.	622122112029	LAVANYA.V	/	/	/	/	/
29.	622122112030	LIBIN RAJAN A	/	/	/	/	/
30.	622122112031	LOGA CHANDRAN.N	/	/	/	/	/
31.	622122112032	LOGESH.K	/	/	/	/	/
32.	622122112033	MANISHA.K	/	/	/	/	/
33.	622122112034	MARK ANTONY M	/	/	/	a	/
34.	622122112035	MOHAMMED ARSHAD.A	/	/	/	/	/
35.	622122112036	MUGESHWARAN.N	/	/	/	/	/
36.	622122112037	MUHAMMAD AJNAS	/	/	/	/	/
37.	622122112038	MUHAMMED ANSIL M A	/	/	/	/	/
38.	622122112039	MUHMMAD MIDLAJ NA	/	/	/	/	/
39.	622122112040	MUHAMMED RINSHAD K	/	/	/	/	/
40.	622122112041	MUKESH.P.S	/	/	/	/	/
41.	622122112042	MUKESH.S	a	a	/	/	/
42.	622122112044	NANDHINI R	/	/	/	/	/
43.	622122112045	NIBIN CHANDRAN R	a	/	/	/	/
44.	622122112046	NIRMALA P	/	/	/	/	/
45.	622122112047	NITHISH KUMAR.R	/	/	/	/	/
46.	622122112048	NIYAN FARIS	/	/	/	/	/
47.	622122112049	POLA TANMAI	/	/	/	/	/
48.	622122112050	PRADEEP.R	/	/	/	/	/
49.	622122112051	PRAGATHISHWARI B.R	/	/	/	/	/
50.	622122112052	RAHUL R	/	/	/	/	/
51.	622122112053	RAKSHANA A.K	/	/	/	/	/
52.	622122112054	SAMA ANJUM. T	/	/	/	/	/
53.	622122112055	SANTHOSH B.K	/	/	/	/	/
54.	622122112056	SHAIK BAJIBABA	/	a	a	a	/
55.	622122112057	SHAM SUNDAR.M.D	/	/	/	/	/
56.	622122112058	VASIKARAN.V	/	/	/	/	/
57.	622122112059	VELMURUGAN.S	/	/	/	/	/
58.	622122112060	VIGNESH.S	/	/	/	/	/
59.	622122112061	VIJAY ASHWIN.K	/	/	/	/	/
60.	622122112062	VIJAY.M	/	/	/	/	/

COURSE COORDINATOR

HOD/CSE(AIML)

Head of the Department
Department of B.E.,CSE (AI and ML)
Paaval Engineering College (Autonomous)
Namakkal – 637 018, Tamilnadu, India.

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning)

CERTIFICATE

This is to certify that

MUKESH P S

of Paavai Engineering College, studying in **Second year** has successfully completed the Value added Course- Ethical hacking. The duration of the Course is 30 hours.

(18/03/2024 to 22/03/2024).

Course Incharge HoD Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning)

CERTIFICATE

This is to certify that

HARISH P

of Paavai Engineering College, studying in **Second year** has successfully completed the Value added Course- Ethical hacking. The duration of the Course is 30 hours.

(18/03/2024 to 22/03/2024).

Course Incharge HoD Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning)

CERTIFICATE

This is to certify that

PRADEEP R

of Paavai Engineering College, studying in **Second year** has successfully completed the Value added Course- Ethical hacking. The duration of the Course is 30 hours.

(18/03/2024 to 22/03/2024).

Course Incharge HoD Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning)

CERTIFICATE

This is to certify that

MARK ANTONY M

of Paavai Engineering College, studying in **Second year** has successfully completed the Value added Course- Ethical hacking. The duration of the Course is 30 hours.

(18/03/2024 to 22/03/2024).

Course Incharge HoD Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning)

CERTIFICATE

This is to certify that

SANTHOSH B K

of Paavai Engineering College, studying in **Second year** has successfully completed the Value added Course- Ethical hacking. The duration of the Course is 30 hours.

(18/03/2024 to 22/03/2024).

Course Incharge	HoD	Principal

PAAVAI ENGINEERING COLLEGE
(Autonomous)
NH 44, PACHAL, NAMAKKAL-637018

DEPARTMENT OF BIOTECHNOLOGY

PLANT TISSUE CULTURE TECHNIQUES (23BTVAC301)

Plant Tissue Culture is an advanced, sterile technique for cultivating disease-free plants, ensuring rapid propagation and preservation of superior varieties.

By growing plant cells, tissues, or organs on nutrient-rich media, this method provides numerous benefits, including:

- ***Mass Propagation***: Produce large quantities of disease-free plants quickly.
- ***Genetic Conservation:*** Preserve rare and endangered plant species for future generations.
- ***Quality Enhancement:*** Develop superior plants with enhanced traits like higher yield, improved resistance, and better adaptability.
- ***Disease-Free Cultivation:*** Ensure plants are free from pathogens for healthier crops.
- ***Innovation in Research:*** Drive advancements in genetic modification, crop improvement, and horticulture.

Applications span agriculture, forestry, pharmaceuticals, and ornamental plant industries, making plant tissue culture a cornerstone of modern plant biotechnology.

Intended Audience:

- II year B.Tech-Biotechnology Students

Date: 12/9/2023 to 16/9/2023

Course In-charge: Dr.C.Nirmala, Associate Professor, Department of Biotech/PEC

PAAVAI ENGINEERING COLLEGE
(Autonomous)
NH 44, PACHAL, NAMAKKAL-637018

DEPARTMENT OF BIOTECHNOLOGY

ACADEMIC YEAR 2023-2024

Date: 05.09.2023

CIRCULAR

It is planned to conduct Five Days Value Added Course on **"PLANT TISSUE CULTURE TECHNIQUES (23BTVAC301)"** for Fourth semester students from **12/9/2023 to 16/9/2023**. The interested students are asked to enroll their name to the course coordinator **Dr.C.Nirmala, Associate Professor, Department of Biotechnology** on or before 10.09.2023.

COURSE COORDINATOR **(HOD/BT)**

23BTVAC301 **PLANT TISSUE CULTURE TECHNIQUES**

COURSE OBJECTIVES	
To enable the students to	
1	To provide in-depth knowledge of plant tissue culture principles and methodologies.
2	To explore the practical applications of tissue culture in agriculture, horticulture, and biotechnology.
3	To impart knowledge about genetic transformation techniques and their applications in plant improvement.
4	To familiarize students with current advances in plant tissue culture and transformation technologies.

UNIT I	**INTRODUCTION TO PLANT TISSUE CULTURE**	**10**
Introduction to cell and tissue culture , media, aseptic techniques, initiation and maintenance of callus and suspension cultures protoplast isolation and fusion, section and regeneration of hybrid plants(somatic embryogenesis and organogenesis), Embryo culture, Anther, pollen and ovary culture for production of haploid plants. Cryopreservation, slow growth for germplasm conservation and encapsulations. Applications of tissue culture		
UNIT II	**APPLICATIONS OF TRANSGENIC PLANT TECHNOLOGY**	**10**
Production of genetically modified plants for herbicide resistant (phosphoinothricin, glyphosate) insect resistance (Bt genes) biotic and abiotic stress tolerance and improvement of quality traits[Golden Rice, Fortified rice], technology protection system [Terminator gene technology),), viral resistant (coat protein or replicase or movement protein mediated) . Biopharming, Therapeutic proteins in transgenic plants		
UNIT III	**Biosafety and Ethical Considerations**	**10**
Regulatory frameworks for GM crops. Public perception and ethical concerns in genetic engineering. Environmental and health impacts of GMOs. Role of science communication in addressing fears and promoting acceptance. Case studies of GMO acceptance and rejection in different societies. Analysis of successful and failed biosafety implementations.Addressing real-world challenges in field trials and commercialization of GMOs.		
	TOTAL PERIODS	**30**

COURSE OUTCOMES		
At the end of this course, the students will be able to		**BT MAPPED** (Highest Level)
CO1	understand about the physiology and metabolism in plants	Understanding (K2)
CO2	acquire knowledge on plant tissue culture methods	Understanding (K2)
CO3	use different biotechnology tools to study as well as modify plants suited to industrial exploitation	Understanding (K2)

TEXT BOOKS

1. Adrian Slater, N W Scott, M Fowler, Plant Biotechnology: The Genetic Manipulation of Plants, second Edition 2014, Oxford University Press
2. Heldt HW. Plant Biochemistry & Molecular Biology, Oxford University Press. 1997.
3. H.S. Chawla. 2015. Plant biotechnology: A practical approach. Oxford and IBH Publishing Co. Pvt.

Ltd., India.

4. Bhojwani, Sant Saran, Dantu, Prem Kumar, Plant Tissue Culture: An Introductory Text 2013; Springer India;

REFERENCES

1. Edwin F. George, Michael A. Hall and Geert-Jan De Klerk 2014. Plant propagation by Tissue Culture. 3rd Edition. Springer, The Netherlands.
2. Wang, Aiming and Ma, Shengwu. 2014. Molecular Farming in Plants: Recent Advances and Future Prospects. Springer, New York, USA.
3. Roberta Smith. 2013. Plant tissue culture: Techniques and experiments. Third edition. Academic
4. Press, Elsevier Inc., USA.
5. Gerard J. Tortora, Sandra. R. Grabowski, Principles of Anatomy and Physiology, Tenth Edition, 2002, Wiley Publishers.

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH 44, PACHAL, NAMAKKAL-637018

DEPARTMENT OF BIOTECHNOLOGY

ACADEMIC YEAR 2023-2024

VALUE ADDED COURSES (ATTENDANCE SHEET)

Year /Semester : II/03
Name of the Course : PLANT TISSUE CULTURE TECHNIQUES (23BTVAC301)
Course Duration : 12/9/2023 to 16/9/2023

S.NO	REGISTER NO	NAME OF THE STUDENT	12.9.23	13.9.23	14.9.23	15.9.23	16.9.23
1	622122206001	ABINAYA M	/	/	/	/	/
2	622122206002	AJAY V	/	/	/	/	/
3	622122206003	ARAVIND M	/	/	/	/	/
4	622122206004	ARUL S	/	/	/	/	/
5	622122206005	AYYAPPAN N	/	/	/	/	/
6	622122206006	BHARATHI PRIYA U	/	/	/	/	/
7	622122206007	BOOBALAN G	/	/	/	/	/
8	622122206009	DEEPADHARSHINI V	/	/	/	/	/
9	622122206011	DHARSHINI SHREE N	/	/	/	/	/
10	622122206012	DINESHKUMAR S	/	/	/	/	/
11	622122206013	ELAKKIYA S	/	/	/	/	/
12	622122206014	GOKULRAJ K	/	/	/	/	/
13	622122206015	HARIHARAN D	/	/	/	/	/
14	622122206016	HARIHARASUDHAN T	/	/	/	/	/
15	622122206017	HARINI R	/	/	/	/	/
16	622122206018	HARSHINI P	/	/	/	/	/
17	622122206020	JAYASURYA J	/	/	/	/	/
18	622122206021	JEEVITHA M	/	/	/	/	/
19	622122206023	KANNABIRAN D	/	/	/	/	/
20	622122206024	KARMUKIL	/	/	/	/	/
21	622122206025	KARTHICK E	/	/	/	/	/
22	622122206026	KASHINI V	/	/	/	/	/

23	622122206028	KAVIYA R	/	/	/	/	/
24	622122206029	KAVIYASRI B	/	/	/	/	/
25	622122206030	KEERTHANA R	/	/	/	/	/
26	622122206031	KIRUBA P	/	/	/	/	/
27	622122206032	KIRUTHIKA M	/	/	/	/	/
28	622122206033	MAHIMA S	/	/	/	/	/
29	622122206035	MONISHA E	/	/	/	/	/
30	622122206036	MOULISHWARAN K	/	/	/	/	/
31	622122206037	NAVEEN RAJ V	/	/	/	/	/
32	622122206038	NIKHITHA C S	/	/	/	/	/
33	622122206039	POOJA G	/	/	/	/	/
34	622122206040	PUVIYARASAN N	/	/	/	/	/
35	622122206041	RANJINI T	/	/	/	/	/
36	622122206042	RANJITH KUMAR S	/	/	/	/	/
37	622122206043	SABITHA S	/	/	/	/	/
38	622122206045	SANTHIYA C	/	/	/	/	/
39	622122206046	SANTHOSH C	/	/	/	/	/
40	622122206047	SARANYA M.S	/	/	/	/	/
41	622122206048	SATHIYA SHEELAN R	/	/	/	/	/
42	622122206049	SETHUPATHY P	/	/	/	/	/
43	622122206050	SHOBIKA V	/	/	/	/	/
44	622122206052	TAMIL VENKATASAN G	/	/	/	/	/
45	622122206053	THIRISHA S	/	/	/	/	/
46	622122206054	THIRUKUMARAN M	/	/	/	/	/
47	622122206056	VIKRAM K	/	/	/	/	/
48	622122206057	YUGESH J	/	/	/	/	/
49	s	YUVASHRI K	/	/	/	/	/

COURSE COORDINATOR **HOD/BIOTECH**

PAAVAI ENGINEERING COLLEGE
(Autonomous)

Namakkal - 637018

DEPARTMENT OF BIOTECHNOLOGY

CERTIFICATE

This is to certify that

Mr. GOKULRAJ K

of Paavai Engineering College, studying in Second Year has successfully completed the Value-added Course in "PLANT TISSUE CULTURE TECHNIQUES".
The duration of the course is 30 hours (12/9/2023 to 16/9/2023)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE
(Autonomous)

Namakkal - 637018

DEPARTMENT OF BIOTECHNOLOGY

CERTIFICATE

This is to certify that

Ms. KIRUBA P

of Paavai Engineering College, studying in Second Year has successfully completed the Value-added Course in "PLANT TISSUE CULTURE TECHNIQUES".
The duration of the course is 30 hours (12/9/2023 to 16/9/2023)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE
(Autonomous)

Namakkal - 637018

DEPARTMENT OF BIOTECHNOLOGY

CERTIFICATE

This is to certify that

Ms.NIKHITHA C S

of Paavai Engineering College, studying in Second Year has successfully completed the Value-added Course in "PLANT TISSUE CULTURE TECHNIQUES".
The duration of the course is 30 hours (12/9/2023 to 16/9/2023)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE
(Autonomous)

Namakkal - 637018

DEPARTMENT OF BIOTECHNOLOGY

CERTIFICATE

This is to certify that

Ms.JEEVITHA M

of Paavai Engineering College, studying in Second Year has successfully completed the Value-added Course in "PLANT TISSUE CULTURE TECHNIQUES".
The duration of the course is 30 hours (12/9/2023 to 16/9/2023)

Course Coordinator **HOD** **Principal**

PAAVAI ENGINEERING COLLEGE
(Autonomous)

Namakkal - 637018

DEPARTMENT OF BIOTECHNOLOGY

CERTIFICATE

This is to certify that

Mr.P.SETHUPATHY

of Paavai Engineering College, studying in Second Year has successfully completed the Value-added Course in "PLANT TISSUE CULTURE TECHNIQUES".
The duration of the course is 30 hours (12/9/2023 to 16/9/2023)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF BIOMEDICAL ENGINEERING

DATE: 01.09.2022

CIRCULAR

It is planned to conduct Five days training course on "**21BMVC301 – BASIC ELECTRONICS CIRCIUTS DESIGN USING MULTISIM"** for 7th semester students from 12.09.2023 to 16.09.2023. The interested students are asked to enrol their name to the course coordinator Ms.N.JAYANTHI., AP/BME on or before 10.09.2022.

HOD

COPY TO: NOTICE BOARD

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF BIOMEDICAL ENGINEERING

VALUE ADDED COURSE

21BMVC301- BASIC ELECTRONIC CIRCUIT DESIGN USING MULTISIM

COURSE CONTENT

Module 1: Basics

Module 2: Basics Electronic Circuits

Module 3: Circuit Using Opamp and Multivibrator

Module 4: Digital Circuits

Module 5: Applications

DATE: 12.09.2023– 16.09.2023

VENUE: BIOMEDICAL SIGNAL PROCESSING LABORATORY

COURSE COORDINATOR: Ms.N.JAYANTHI, AP/BME

21BMVC301 BASIC ELECTRONIC CIRCUIT DESIGN USING MULTISIM 0 0 1 1

COURSE OBJECTIVES

To enable the students to

- learn the basics on Multisim
- analyze the basic electronic circuit using multisim
- analyze the opamp circuit and multivibrator circuit using multisim
- acquire the knowledge on digital circuits

UNIT I BASICS **4**

Basic of Multisim -Introduction to Multisim, Placing Components, Wiring Components, Placing simulation source, place measurement instruments, simulation

UNIT II BASICS ELECTRONIC CIRCUITS **4**

Clipper, Clamper, Voltage, Regulator,CE amplifier, Emitter follower

UNIT III CIRCUIT USING OPAMP AND MULTIVIBRATOR **4**

Comparator, Schmitt trigger circuit, Diode waveshaping circuit, peak detector, Integrator, Differentiator, logarithmic Amplifier, A.C. Amplifier, Multivibrator, 555 timer, PLL circuit

UNIT IV DIGITAL CIRCUITS **3**

Flipflop, Registers, Counter, MUX, DEMUX, A/D and D/A Converter

TOTAL PERIODS 15

COURSE OUTCOMES

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

- acquire the basics on Multisim
- apply the knowledge on basic electronic circuit using multisim
- apply the opamp circuit and multivibrator circuit using multisim
- apply the knowledge on digital circuits

TEXT BOOKS

1. Multisim Tutorial, NI http://www.ni.com/tutorial/10710/en/

PAAVAI ENGINEERING COLLEGE (AUTONOMUS)

DEPARTMENT OF BIOMEDICAL ENGINEERING

VALUE ADDED COURSE ATTENDANCE SHEET

ACADEMIC YEAR: 2023-2024 DATE: 12.09.2023 to 16.09.2023

NAME OF THE COURSE: 21BMVC301 – BASIC ELECTRONICS CIRCIUTS DESIGN USING MULTISIM

S.NO	REGISTER NO	NAME	12/9	13/9	14/9	15/9	16/9.
1	20109001	AJITHKUMAR.K	/	/	/	/	/
2	20109002	AJITHKUMAR.K	/	/	/	/	/
3	20109003	AKSHAYA.J	/	/	/	/	/
4	20109004	ANANDHARAJ.G	/	9	/	/	/
5	20109005	ARIVOLI.M	/	/	/	/	9
6	20109006	ARULKUMARAN.V	/	/	/	/	/
7	20109007	BALA.M	/	/	/	/	/
8	20109008	BALAJI.M	a	/	/	/	/
9	20109009	BALAMURUGAN.R	/	/	/	/	/
10	20109010	CHARUMATHI.S	/	/	/	/	/
11	20109011	DHEJJASWINI.E	/	9	/	/	/
12	20109013	HARISH.P	/	/	/	/	/
13	20109014	HARISH.R	/	/	/	/	/
14	20109015	JAYAKRISHNAN.K	/	/	9	/	/
15	20109016	JAYAPRAKASH.R	9	/	/	/	/
16	20109017	JEEVITHA.K	/	/	/	/	/
17	20109018	JOHNSON.R	/	/	/	/	/
18	20109019	KANAGASANTHOSH.M.M	/	/	/	9	/
19	20109020	KIRUTHIKA.P	/	/	/	/	/
20	20109021	KRITHIKA.K	/	/	/	/	/
21	20109022	MAARVIN.M	/	/	/	/	/
22	20109023	MATHANKUMAR.M	/	/	/	/	/
23	20109024	MOHAMED ARSHATH.A	9	/	/	/	/
24	20109025	MOHAMMED SULTHAN.A	/	/	/	/	/
25	20109026	MUKILA.M	/	/	/	/	/
26	20109027	NANDEESHWARAN.J	/	/	/	/	/
27	20109028	NANDHA.G	/	/	/	/	/
28	20109030	PAVITHRA.S	/	/	/	/	/
29	20109031	PRAKASH.K.V	9	/	/	/	/
30	20109032	PRASANNAPRIYA.R	/	/	/	/	/
31	20109033	PRASANTH.P	/	/	/	/	/
32	20109034	RAGAVARSHINI.S	/	/	/	/	/

33	20109035	ROSHAN KUMAR.V	✓	✓	✓	✓	✓
34	20109036	RUGIYA.A	✓	✓	✓	✓	✓
35	20109037	SAFA FAREN.M.J	✓	✓	✓	✓	✓
36	20109038	SAKTHIVEL.M	✓	✓	✓	✓	✓
37	20109039	SANDHIYA.S	✓	✓	✓	✓	✓
38	20109040	SANJITH SWAMY.R	✓	✓	✓	✓	✓
39	20109042	SATHIYA.A	✓	✓	✓	✓	✓
40	20109043	SELVAKUMAR.M	✓	✓	✓	✓	✓
41	20109044	SELVAKUMAR.N	✓	✓	✓	✓	✓
42	20109045	SENTHILKUMAR.N	✓	✓	✓	✓	✓
43	20109046	SIVAMANI.S	✓	✓	✓	✓	✓
44	20109047	SOUNDARYA.S	✓	✓	✓	✓	✓
45	20109048	SOWNDARYA.S	✓	✓	✓	✓	✓
46	20109049	SRIDHAR.S	✓	✓	✓	✓	✓
47	20109050	SUBHIKSHA.S	✓	✓	✓	✓	✓
48	20109051	SUDEEP.C	✓	✓	✓	✓	✓
49	20109052	SUPRAJA.O	✓	✓	✓	✓	✓
50	20109053	SUVARNALATHA.V	✓	✓	✓	✓	✓
51	20109054	SWETHA.S	✓	✓	✓	✓	✓
52	20109055	VAJITHRA.C	✓	✓	✓	✓	✓
53	20109056	VASANTHAVEL.P	✓	✓	✓	✓	✓
54	20109057	VIGNESH VARMA.H	✓	✓	✓	✓	✓
55	20109058	VIJAI.V	✓	✓	✓	✓	✓
56	20109059	VINOTHA.M	✓	✓	✓	✓	✓
57	20109060	VISWA.R	✓	✓	✓	✓	✓
58	20109061	YUVANESHWARAN.P	✓	✓	✓	✓	✓

COURSE COORDINATOR

HOD

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Biomedical Engineering

CERTIFICATE

This is to certify

VIGNESH VARMA.H

of Paavai Engineering College, studying in **FINAL Year** has successfully completed the **BASIC ELECTRONIC CIRCUIT DESIGN USING MULTISIM** course from 12.9.23 to 16.9.23

Course Coordinator | HOD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Biomedical Engineering

CERTIFICATE

This is to certify

ARIVOLI.M

of Paavai Engineering College, studying in **FINAL Year** has successfully completed **BASIC ELECTRONIC CIRCUIT DESIGN USING MULTISIM** course from 12.9.23 to 16.9.23

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Biomedical Engineering

CERTIFICATE

This is to certify

MUKILA.M

of Paavai Engineering College, studying in **FINAL Year** has successfully completed **BASIC ELECTRONIC CIRCUIT DESIGN USING MULTISIM** course from 12.9.23 to 16.9.23

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF BIOMEDICAL ENGINEERING

DATE: 1.03.2024

CIRCULAR

It is planned to conduct Five days training course on "**21BMVC401 - VHDL PROGRAMMING**" for 8th semester students from 18.3.2024 to 22.3.2024. The interested students are asked to enrol their name to the course coordinator Mrs. S.PRAVEENA., AP/BME on or before 09.03.2024

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HOD

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF BIOMEDICAL ENGINEERING

VALUE ADDED COURSE

21BMVC401- VHDL PROGRAMMING

COURSE CONTENT

Module 1: Basics of VHDL Systems

Module 2: System modeling

Module 3: Architecture

Module 4: Communication Architecture

Module 5: IoT Standards

DATE: 18.03.2024 – 22.03.2024

VENUE: BIOMEDICAL SIGNAL PROCESSING LABORATORY

COURSE COORDINATOR: Mrs.S.PRAVEENA. AP/BME

21BMVC401 **VHDL PROGRAMMING** **0 0 1 1**

COURSE OBJECTIVES

To enable the students to

- learn the basic of VHDL
- understand the concept of parallel and sequential processing using VHDL
- acquire the knowledge on combinational circuit using VHDL
- acquire the knowledge on sequential circuit using VHDL

UNIT I VHDL BASICS **3**

Code models; component model; gates; entity; architecture; identifier object; variables, signals, data types, operators of relationships

UNIT II PARALLEL AND SEQUENTIAL PROCESSING **3**

Modeling for simulation, simulation cycle, parallel and sequential sets; instantiation of components

UNIT III CONSTRUCTION OF COMBINATORIAL LOGIC USING VHDL **4**

Timing and delays in digital circuits; hazard; arithmetic units; ROM; design example

UNIT IV DESIGN OF SEQUENTIAL LOGIC USING VHDL **5**

Timing of synchronous systems; synchronous processes; latches; flip-flops; initialization; Mealy and Moore machines; counters; registers; RAM

TOTAL PERIODS 15

COURSE OUTCOMES

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

- learn the basic of VHDL
- analyze the concept of parallel and sequential processing using VHDL
- apply the knowledge on combinational circuit using VHDL
- apply the knowledge on sequential circuit using VHDL

TEXT BOOKS

1. https://www.classcentral.com/course/canvas-network-digital-design-with-vhdl-2616

PAAVAI ENGINEERING COLLEGE (AUTONOMUS)

DEPARTMENT OF BIOMEDICAL ENGINEERING

VALUE ADDED COURSE ATTENDANCE SHEET

ACADEMIC YEAR: 2023-2024 DATE: 18.3.2024 to 22.03.2024

NAME OF THE COURSE: 21BMVC401 - VHDL PROGRAMMING

S.NO	REGISTER NO	NAME	18.3.24	19.3.24	20.3.24	21.3.24	22.3.24
1	20109001	AJITHKUMAR.K	1	1	1	1	1
2	20109002	AJITHKUMAR.K	1	1	1	1	1
3	20109003	AKSHAYA.J	1	1	a	1	a
4	20109004	ANANDHARAJ.G	1	a	1	1	1
5	20109005	ARIVOLI.M	1	1	1	a	1
6	20109006	ARULKUMARAN.V	1	1	1	1	1
7	20109007	BALA.M	1	1	1	1	1
8	20109008	BALAJI.M	1	1	1	1	1
9	20109009	BALAMURUGAN.R	1	1	a	1	1
10	20109010	CHARUMATHI.S	1	1	1	1	1
11	20109011	DHEJJASWINI.E	a	1	1	1	1
12	20109013	HARISH.P	1	1	1	1	a
13	20109014	HARISH.R	1	1	1	1	1
14	20109015	JAYAKRISHNAN.K	1	1	a	1	1
15	20109016	JAYAPRAKASH.R	1	a	1	1	1
16	20109017	JEEVITHA.K	1	1	1	1	1
17	20109018	JOHNSON.R	1	1	1	1	1
18	20109019	KANAGASANTHOSH.M.M	1	1	1	1	1
19	20109020	KIRUTHIKA.P	a	1	1	1	1
20	20109021	KRITHIKA.K	1	1	1	1	1
21	20109022	MAARVIN.M	1	1	1	1	1
22	20109023	MATHANKUMAR.M	1	1	1	1	1
23	20109024	MOHAMED ARSHATH.A	1	1	1	1	1
24	20109025	MOHAMMED SULTHAN.A	1	1	1	1	1
25	20109026	MUKILA.M	1	1	a	1	1
26	20109027	NANDEESHWARAN.J	1	1	1	1	1
27	20109028	NANDHA.G	1	a	1	1	1
28	20109030	PAVITHRA.S	1	1	1	1	1
29	20109031	PRAKASH.K.V	1	1	1	a	1
30	20109032	PRASANNAPRIYA.R	a	1	1	1	1
31	20109033	PRASANTH.P	1	1	1	1	a

32	20109034	RAGAVARSHINI.S	1	1	1	1	1
33	20109035	ROSHAN KUMAR.V	1	1	a	1	1
34	20109036	RUGIYA.A	1	1	1	1	1
35	20109037	SAFA FAREN.M.J	1	1	1	1	1
36	20109038	SAKTHIVEL.M	1	a	1	1	1
37	20109039	SANDHIYA.S	1	1	1	1	1
38	20109040	SANJITH SWAMY.R	1	1	1	1	1
39	20109042	SATHIYA.A	1	1	1	1	1
40	20109043	SELVAKUMAR.M	a	1	1	a	1
41	20109044	SELVAKUMAR.N	1	1	1	1	1
42	20109045	SENTHILKUMAR.N	1	1	1	1	1
43	20109046	SIVAMANI.S	1	1	1	1	1
44	20109047	SOUNDARYA.S	1	1	1	1	1
45	20109048	SOWNDARYA.S	1	1	1	1	1
46	20109049	SRIDHAR.S	1	1	1	1	1
47	20109050	SUBHIKSHA.S	1	a	a	1	1
48	20109051	SUDEEP.C	1	1	1	1	1
49	20109052	SUPRAJA.O	a	1	1	a	1
50	20109053	SUVARNALATHA.V	1	1	1	1	1
51	20109054	SWETHA.S	1	1	1	1	1
52	20109055	VAJITHRA.C	1	1	1	1	1
53	20109056	VASANTHAVEL.P	1	1	1	1	1
54	20109057	VIGNESH VARMA.H	1	1	1	1	1
55	20109058	VIJAI.V	1	1	1	1	1
56	20109059	VINOTHA.M	1	1	1	1	a
57	20109060	VISWA.R	1	a	1	1	1
58	20109061	YUVANESHWARAN.P	1	1	1	1	1

COURSE COORDINATOR

HOD

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Biomedical Engineering

CERTIFICATE

This is to certify

BALAMURUGAN.R

of Paavai Engineering College, studying in **FINAL Year** has successfully completed the **VHDL Programming** course from 18/3/2024 to 22/3/2024

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Biomedical Engineering

CERTIFICATE

This is to certify

MUKILA.M

of Paavai Engineering College, studying in **FINAL Year** has successfully completed **VHDL Programming** course from 18/3/2024 to 22/3/2024

Course Coordinator | HOD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Biomedical Engineering

CERTIFICATE

This is to certify

PAVITHRA.S

of Paavai Engineering College, studying in **FINAL Year** has successfully completed the **VHDL Programming** course from 18/3/2024 to 22/3/2024

Course Coordinator | HOD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Biomedical Engineering

CERTIFICATE

This is to certify

SAFA FAREN.M.J

of Paavai Engineering College, studying in **FINAL Year** has successfully completed the **VHDL Programming** course from 18/3/2024 to 22/3/2024

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Biomedical Engineering

CERTIFICATE

This is to certify

S.SWETHA

of Paavai Engineering College, studying in **FINAL Year** has successfully completed the **VHDL Programming** course from 18/3/2024 to 22/3/2024

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF BIOMEDICAL ENGINEERING

DATE: 01.09.2023

CIRCULAR

It is planned to conduct Five days training course on "**19BMVC301 – WEB DESIGN**" for 7th semester students from 12.09.2023 to 16.09.2023. The interested students are asked to enrol their name to the course coordinator Mr.S.JOTHEESWARAN., AP/BME on or before 09.09.2023.

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HOD

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF BIOMEDICAL ENGINEERING

VALUE ADDED COURSE

19BMVC301- Web Design

COURSE CONTENT

Module 1: Web Design Principles

Module 2: Basics in Web Design

Module 3: Introduction to HTML

Module 4: Elements of HTML

Module 5: Introduction to Cascading Style Sheets

DATE: 19.09.2022– 24.09.2022

VENUE: BIOMEDICAL SIGNAL PROCESSING LABORATORY

COURSE COORDINATOR: Ms.S.JOTHEESWARAN, AP/BME

PAAVAI ENGINEERING COLLEGE (AUTONOMUS)

DEPARTMENT OF BIOMEDICAL ENGINEERING

VALUE ADDED COURSE ATTENDANCE SHEET

ACADEMIC YEAR: 2023-2024 DATE: 12.09.2023 to 16.09.2023

NAME OF THE COURSE: 19BMVC301 – WEB DESIGN

S.NO	REGISTER NO	NAME	12.9.23	13.9.23	14.9.23	15.9.23	16.9.23
1	622122109001	AADHITYA D	/	/	/	/	/
2	622122109002	ABDULLA S	/	A	A	A	/
3	622122109003	ABINAYA G	/	/	/	/	A
4	622122109004	ABINAYA M S	/	/	/	/	/
5	622122109005	ABISHAI M	/	/	/	/	/
6	622122109006	ABITHA A	/	A	/	A	/
7	622122109007	AKASH KRISHNA	/	/	/	/	/
8	622122109008	AKASH N	/	/	/	/	/
9	622122109009	ALEENA ABOO JALEEL	A	/	/	/	/
10	622122109010	ANANDHARAJ M	/	A	/	/	/
11	622122109011	ARUNKUMAR S	/	/	/	/	/
12	622122109012	ATHISTALAKSHMI B	/	/	/	/	/
13	622122109014	BALA SIVANESARAJ M	/	/	/	/	/
14	622122109015	BALAJI D	/	/	/	A	/
15	622122109016	BHUVANESHWARI S	/	/	/	/	/
16	622122109017	BOOBALAN K	/	/	/	/	/
17	622122109018	DEEPIKA S	/	/	/	A	/
18	622122109019	FAWAS SHAJAHAN	/	/	/	/	/
19	622122109020	GOMATHI R	/	/	A	/	/
20	622122109021	GOWTHAMKUMAR N	/	/	/	/	/
21	622122109022	HARIKRISHNAN S	/	/	/	/	/
22	622122109023	HARINI R	/	/	/	/	/
23	622122109024	HARISHKOWSICK R	/	/	/	/	/
24	622122109025	HARISHRAJ N	/	/	A	/	/
25	622122109026	HEMALATHA T	/	/	/	/	/
26	622122109027	JEYIIN KEERTHANI C	/	/	/	/	/
27	622122109028	KAVI R	/	/	/	/	/
28	622122109029	KAVIMUGIL S	/	/	/	/	/
29	622122109030	KAVIYA G	/	/	/	/	/
30	622122109031	KIRUTHICK BALA M	/	/	/	/	/
31	622122109032	KISSOKAR R	/	/	/	/	/
32	622122109033	LIYAANA JEBIN	A	/	/	A	/
33	622122109035	MEJO JOHN	/	A	/	/	/
34	622122109036	MUNIAKASH S	/	/	/	/	A

35	622122109037	NEERAJ V M	/	a	/	/	/
36	622122109038	NITHIYA PRIYA M	/	/	/	/	/
37	622122109039	NIVETHA R	/	/	/	/	/
38	622122109040	PERAZHAGAN S	/	/	a	/	/
39	622122109041	PRITHIKA K	/	/	/	/	a
40	622122109042	RAGUL G	/	/	/	/	/
41	622122109043	RAJASEKAR R	/	/	/	a	/
42	622122109044	RAMAN S	/	/	/	/	/
43	622122109045	RASIKA V	/	/	/	/	/
44	622122109047	RUDRESH V	/	a	/	/	/
45	622122109048	SAHAANASHREE A	/	/	/	/	/
46	622122109049	SAKTHI DHAVASEELAN A	a	/	a	/	/
47	622122109050	SANJAY S	/	/	/	/	/
48	622122109051	SARAN L	/	/	/	/	/
49	622122109052	SATHISHKUMAR M	/	/	/	/	/
50	622122109053	SHAJAN R	/	/	/	/	a
51	622122109054	SOWMIYA N	/	/	/	/	/
52	622122109055	SRIDHAR A	/	/	/	/	/
53	622122109056	SUDHARSAN S	/	/	/	/	/
54	622122109057	SUWATHI S	/	a	/	a	/
55	622122109058	SWATHI V	/	/	/	/	/
56	622122109059	THOLKAPPIYAA N C	/	/	a	/	/
57	622122109060	THULASINATHAN S	/	/	/	/	/
58	622122109061	VIJI P	/	/	/	/	/
59	622122109062	YUVASREE S	/	/	/	/	/
60	622122109301	MAHA RISHI	/	/	/	/	a

COURSE COORDINATOR

HOD

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Biomedical Engineering

CERTIFICATE

This is to certify

SUDHARSHAN.S

of Paavai Engineering College, studying in **SECOND Year** has successfully completed the **WEB DESIGN** course from **12.09.2023 to 16.09.2023**

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Biomedical Engineering

CERTIFICATE

This is to certify

SWATHI.V

of Paavai Engineering College, studying in **SECOND Year** has successfully completed the **WEB DESIGN** course from **12.09.2023 to 16.09.2023**

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Biomedical Engineering

CERTIFICATE

This is to certify

VIJI P

of Paavai Engineering College, studying in **SECOND Year** has successfully completed the **WEB DESIGN** course from **12.09.2023 to 16.09.2023**

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF BIOMEDICAL ENGINEERING

DATE: 01.03.2024

CIRCULAR

It is planned to conduct Five days training course on "**19BMVC401 - INTERNET OF THINGS**" for 4th semester students from 18.3.2024 to 22.03.2024. The interested students are asked to enrol their name to the course coordinator Mr. S.PRAVEENA, AP/BME on or before 09.03.2024

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HOD

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MEDICAL ELECTRONICS

VALUE ADDED COURSE

19BMVC401- INTERNET OF THINGS

COURSE CONTENT

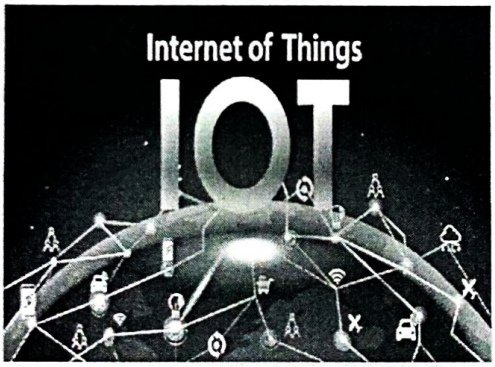
Module 1: Basics of Embedded System

Module 2:System modeling

Module 3: Architecture

Module 4: IOT communication architecture

Module 5: IOT standards



DATE: 18.03.2024 – 22.03.2024

VENUE: BIOMEDICAL SIGNAL PROCESSING LABORATORY

COURSE COORDINATOR: Mrs. S.PRAVEENA., AP/BME

PAAVAI ENGINEERING COLLEGE (AUTONOMUS)

DEPARTMENT OF BIOMEDICAL ENGINEERING

VALUE ADDED COURSE ATTENDANCE SHEET

ACADEMIC YEAR: 2023-2024 DATE: 18.3.2024 to 22.03.2024

NAME OF THE COURSE: 19BMVC401 - INTERNET OF THINGS

S.NO	REGISTER NO	NAME	18/3	19/3	20/3	21/3	22/3
1	20109001	AJITHKUMAR.K	✓	✓	✓	✓	✓
2	20109002	AJITHKUMAR.K	✓	✓	✓	✓	✓
3	20109003	AKSHAYA.J	✓	✓	✓	✓	✓
4	20109004	ANANDHARAJ.G	✓	✓	✓	✓	✓
5	20109005	ARIVOLI.M	✓	✓	✓	✓	✓
6	20109006	ARULKUMARAN.V	✓	✓	✓	✓	✓
7	20109007	BALA.M	✓	✓	✓	✓	✓
8	20109008	BALAJI.M	✓	✓	✓	✓	✓
9	20109009	BALAMURUGAN.R	✓	✓	✓	✓	✓
10	20109010	CHARUMATHI.S	✓	✓	✓	✓	✓
11	20109011	DHEJJASWINI.E	✓	✓	✓	✓	✓
12	20109013	HARISH.P	✓	✓	✓	✓	✓
13	20109014	HARISH.R	✓	✓	✓	✓	✓
14	20109015	JAYAKRISHNAN.K	✓	✓	✓	✓	✓
15	20109016	JAYAPRAKASH.R	✓	✓	✓	✓	✓
16	20109017	JEEVITHA.K	✓	✓	✓	✓	✓
17	20109018	JOHNSON.R	✓	✓	✓	✓	✓
18	20109019	KANAGASANTHOSH.M.M	✓	✓	✓	✓	✓
19	20109020	KIRUTHIKA.P	✓	✓	✓	✓	✓
20	20109021	KRITHIKA.K	✓	✓	✓	✓	✓
21	20109022	MAARVIN.M	✓	✓	✓	✓	✓
22	20109023	MATHANKUMAR.M	✓	✓	✓	✓	✓
23	20109024	MOHAMED ARSHATH.A	✓	✓	✓	✓	✓
24	20109025	MOHAMMED SULTHAN.A	✓	✓	✓	✓	✓
25	20109026	MUKILA.M	✓	✓	✓	✓	✓
26	20109027	NANDEESHWARAN.J	✓	✓	✓	✓	✓
27	20109028	NANDHA.G	✓	✓	✓	✓	✓
28	20109030	PAVITHRA.S	✓	✓	✓	✓	✓
29	20109031	PRAKASH.K.V	✓	✓	✓	✓	✓
30	20109032	PRASANNAPRIYA.R	✓	✓	✓	✓	✓

31	20109033	PRASANTH.P					
32	20109034	RAGAVARSHINI.S					
33	20109035	ROSHAN KUMAR.V					
34	20109036	RUGIYA.A					
35	20109037	SAFA FAREN.M.J					
36	20109038	SAKTHIVEL.M					
37	20109039	SANDHIYA.S					
38	20109040	SANJITH SWAMY.R					
39	20109042	SATHIYA.A					
40	20109043	SELVAKUMAR.M					
41	20109044	SELVAKUMAR.N					
42	20109045	SENTHILKUMAR.N					
43	20109046	SIVAMANI.S					
44	20109047	SOUNDARYA.S					
45	20109048	SOWNDARYA.S					
46	20109049	SRIDHAR.S					
47	20109050	SUBHIKSHA.S					
48	20109051	SUDEEP.C					
49	20109052	SUPRAJA.O					
50	20109053	SUVARNALATHA.V					
51	20109054	SWETHA.S					
52	20109055	VAJITHRA.C					
53	20109056	VASANTHAVEL.P					
54	20109057	VIGNESH VARMA.H					
55	20109058	VIJAI.V					
56	20109059	VINOTHA.M					
57	20109060	VISWA.R					
58	20109061	YUVANESHWARAN.P					

COURSE COORDINATOR

HOD

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Biomedical Engineering

CERTIFICATE

This is to certify

ABISHAI.M

of Paavai Engineering College, studying in **SECOND Year** has successfully completed the **Internet Of Things** course from 18/3/2024 to 22/3/2024

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Biomedical Engineering

CERTIFICATE

This is to certify

SOWMIYA N

of Paavai Engineering College, studying in **SECOND Year** has successfully completed the **Internet Of Things** course from 18/3/2024 to 22/3/2024

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Biomedical Engineering

CERTIFICATE

This is to certify

KIRUTHICK BALA M

of Paavai Engineering College, studying in **SECOND Year** has successfully completed the **Internet Of Things** course from 18/3/2024 to 22/3/2024

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Biomedical Engineering

CERTIFICATE

This is to certify

GOMATHI R

of Paavai Engineering College, studying in **SECOND Year** has successfully completed the **Internet Of Things** course from 18/3/2024 to 22/3/2024

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Biomedical Engineering

CERTIFICATE

This is to certify

ANANDHARAJ M

of Paavai Engineering College, studying in **SECOND Year** has successfully completed the **Internet Of Things** course from 18/3/2024 to 22/3/2024

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF BIOMEDICAL ENGINEERING

DATE: 01.09.2022

CIRCULAR

It is planned to conduct Five days training course on "**20BMVC301 – EMBEDDED PROGRAMMING USING ARDUINO"** for 5th semester students from 12.09.2023 to 16.09.2023. The interested students are asked to enrol their name to the course coordinator Mrs. B.NIRANJANA DEVI, AP/BME on or before 09.08.2022.

COPY TO: NOTICE BOARD

HOD

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF BIOMEDICAL ENGINEERING

VALUE ADDED COURSE

20BMVC301- Embedded programming using Arduino

COURSE CONTENT

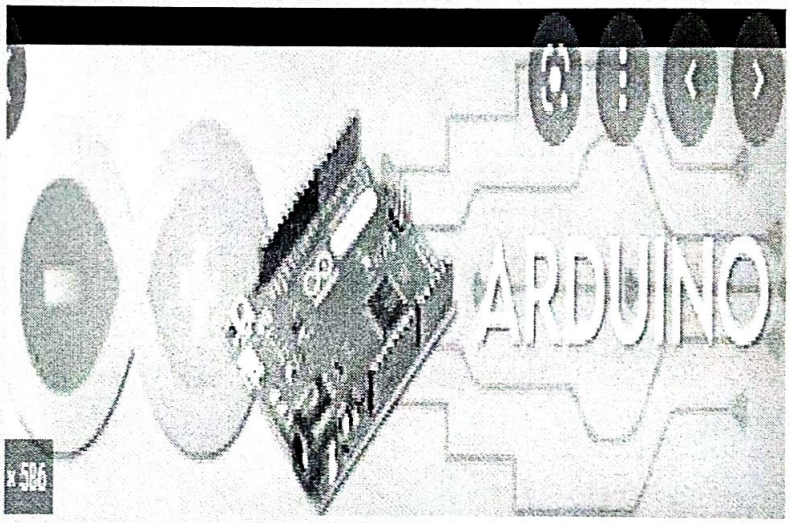
Module 1: Arduino Basics

Module 2: Arduino Function Libraries

Module 3: Arduino Sensors And Interfacing

Module 4: Arduino Interfacing And Real Time Projects

Module 5: Programming



DATE: 18.03.2024 - 22.03.2024

VENUE: BIOMEDICAL SIGNAL PROCESSING LABORATORY

COURSE COORDINATOR: Ms. B.NIRANJANA DEVI.,AP/MDE.

20BMVC301 EMBEDDED PROGRAMMING USING ARDUINO 0 0 2 1

COURSE OBJECTIVES

To enable the students to

- learn the basic of arduino and the programming language
- acquire knowledge on arduino function libraries
- understand the real time projects using arduino and the interfacing modules

UNIT I ARDUINO BASICS **6**

Basics of Arduino –Overview, Board Description, Installation, Program Structure, Data types, Variables & Constants, operators, Control Statements, Loops, Functions, Strings, String Object, Time, Arrays

UNIT II ARDUINO FUNCTION LIBRARIES **6**

Function Libraries- I/O Functions, Advanced I/O Functions, Character Functions, Math Library, Trigonometric Functions, Due & Zero, Pulse width Modulation, Random Numbers, Interrupts, Communication, Inter Integrated Circuits, Serial Peripheral Interface, Arduino UART,

UNIT III ARDUINO SENSORS AND INTERFACING **9**

Sensors – Humidity Sensor, Temperature Sensor, Water Detector/Sensor, PIR Sensor, Ultrasonic Sensor; Connecting switches (Magnetic Relay Switches- Types of Relay, Controlling electrical appliances with electromagnetic relays, working as a matrix keypad,

UNIT IV ARDUINO INTERFACING AND REAL TIME PROJECTS **9**

Arduino Interfacing - Using the keypad library to interface with Arduino, Interfacing servo motors with Arduino, Using a buzzer as an alarm unit, GSM/GPRS arduino interfacing, Intelligent home locking system, intelligent water level management system, home automation using RFID, Automatic hand sanitizer

TOTALPERIODS 30

COURSE OUTCOMES

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

- learn the basic of arduino and the programming language
- acquire knowledge on arduino function libraries
- understand the real time projects using arduino and the interfacing modules

TEXT BOOKS

Simon Monk, "Programming Arduino Getting Started with Sketches" , January 2012

PAAVAI ENGINEERING COLLEGE (AUTONOMUS)

DEPARTMENT OF BIOMEDICAL ENGINEERING

VALUE ADDED COURSE ATTENDANCE SHEET

ACADEMIC YEAR: 2023-2024 DATE: 12.09.2023 to 16.09.2023

NAME OF THE COURSE: 21BMVC301- EMBEDDED PROGRAMMING USING ARUDINO

S.No	Name of the Students	Register Number	12.9.23	13.9.23	14.9.23	15.9.23	16.9.23
1	ABINAYA G	622121109002	/	/	/	/	/
2	AJAY R	622121109003	/	a	/	/	/
3	ARIHARAN V	622121109004	/	/	/	/	a
4	ARUN C	622121109006	/	/	a	/	/
5	BADRINATH V	622121109007	/	/	/	a	/
6	BARATH A	622121109008	a	/	/	/	/
7	BHUVANESHWARAN S	622121109009	/	/	/	/	/
8	BHUVANESHWARI T	622121109010	/	/	/	/	/
9	DHARANI M	622121109011	/	/	/	/	/
10	DHILIP S	622121109012	/	a	/	/	/
11	DINESH S	622121109013	/	/	/	/	/
12	GOBIDHA K	622121109014	/	/	a	/	/
13	GOKUL RAJA G	622121109015	a	/	/	/	/
14	GUGANBALA G	622121109017	/	/	/	/	a
15	JAYAKANNAN S	622121109019	/	/	/	a	/
16	JAYARAM C	622121109020	/	/	/	/	/
17	JAYASRI A	622121109021	/	/	/	/	/
18	JAYASURYA N	622121109022	/	a	/	/	/
19	KAVIYARASAN M	622121109024	/	/	/	/	/
20	KEERTHIPRIYA S	622121109025	/	/	/	/	/
21	KIRUBAKARAN J	622121109026	/	/	/	/	/

22	KUMARESAN D	622121109028	1	1	1	a	1
23	LINGASRI S	622121109029	1	1	1	1	1
24	LOGAMANIMEGALAI V	622121109030	1	1	1	1	1
25	MAHALAKSHMI P	622121109031	1	a	1	1	1
26	MOHANRAJ S	622121109032	1	1	1	1	1
27	MURUGAN S	622121109033	1	1	1	1	a
28	NAVEENKUMAR G	622121109034	a	1	1	1	1
29	NIKASH N	622121109035	1	1	1	1	1
30	PAVITHRA M	622121109036	1	1	a	1	1
31	PRADEEP M	622121109037	1	1	1	1	1
32	PRASANTH P	622121109038	1	1	1	1	1
33	PRATHISH KUMAR G	622121109039	1	1	1	1	1
34	PRAVEEN V	622121109040	1	1	1	1	1
35	PUNITH RAJ R	622121109041	1	1	1	1	1
36	ROJA R	622121109043	1	1	1	1	1
37	SANDHIYA M	622121109044	1	1	1	1	1
38	SANGEETHKUMAR M	622121109045	1	a	1	1	1
39	SANJEEVAMOORTHI M	622121109046	1	1	1	1	1
40	SANMATHI S	622121109048	1	1	1	a	1
41	SANTHOSH M	622121109049	a	1	1	1	a
42	SAROTHIRSHA S	622121109050	1	1	1	1	1
43	SHAKTHIVEL E	622121109051	1	1	1	1	1
44	SOBANA K	622121109052	1	1	1	1	1
45	SUBASH K	622121109053	1	1	1	1	1
46	SURABIKA R	622121109055	1	1	1	1	1

B. Nyl.

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Biomedical Engineering

CERTIFICATE

This is to certify

SANDHIYA M

of Paavai Engineering College, studying in **THIRD Year** has successfully completed the **EMBEDDED PROGRAMMING USING ARDUINO course** from 12.9.23 to 16.9.23

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Biomedical Engineering

CERTIFICATE

This is to certify

MUKILA.M

of Paavai Engineering College, studying in **THIRD Year** has successfully completed the **EMBEDDED PROGRAMMING USING ARDUINO course** from 12.9.23 to 16.9.23

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

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Department of Biomedical Engineering

CERTIFICATE

This is to certify

SAROTHRISHA.S

of Paavai Engineering College, studying in **THIRD Year** has successfully completed the **EMBEDDED PROGRAMMING USING ARDUINO course** from **12.09.2023 to 16.09.2023**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF BIOMEDICAL ENGINEERING

DATE: 01.03.2024

CIRCULAR

It is planned to conduct Five days training course on "**20BMVC401 - MATLAB PROGRAMMING**" for 6th semester students from 18.3.2024 to 22.3.2024. The interested students are asked to enrol their name to the course coordinator Mr. S. RAJASEKARAN, AP/BME on or before 09.03.2024.

COPY TO: NOTICE BOARD

HOD

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF BIOMEDICAL ENGINEERING

VALUE ADDED COURSE

20BMVC301- MATLAB PROGRAMMING

COURSE CONTENT

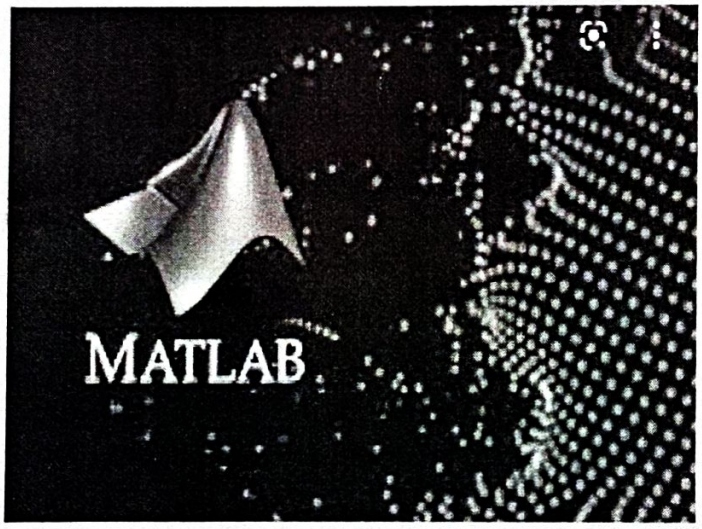
Module 1: Basics of MATLAB

Module 2: Root Finding and Plotting

Module 3: Vectors, Fractals and Chaos

Module 4: Biomedical Signal and Image Processing

Module 5: Graphical User Interface



DATE: 18.03.2024 – 26.03.2024

VENUE: BIOMEDICAL SIGNAL PROCESSING LABORATORY

COURSE COORDINATOR: Dr. S.RAJASEKERAN, AP/BME

20BMVC401 MATLAB PROGRAMMING 0 0 2 1

COURSE OBJECTIVES

To enable the students to

- learn the basic of MATLAB programming
- analyze the biomedical signals and images using matlab programming
- implement the programming in GUI

UNIT I BASICS OF MATLAB PROGRAMMING **4**

Basics of MATLAB - Introduction to programming, Command prompt and expressions, List, Vectors, and Matrices, Variables

UNIT II ROOT FINDING AND PLOTTING **4**

Root Finding- Newton's Method, The Secant Method, More Sub-Indexing; Plotting – Basics of Attraction

UNIT III VECTORS, FRACTALS AND CHAOS **4**

Vectors – Complex Numbers, User defined functions, Scope ; Fractals – Logistic Equation, Loops, Break and Continue, Truth Statements and Logical Indexing ; Debugging with Matlab, Files I/O

UNIT IV BIOMEDICAL SIGNAL AND IMAGE PROCESSING **9**

One-dimensional signal and images, Two-dimensional or even three- or four-dimensional data, filtering and convolution, image-processing algorithms

UNIT V GRAPHICAL USER INTERFACE **9**

GUI – Create, Design, Add Components; User Interactions – Trigger Event, Callback functions

TOTAL PERIODS 30

COURSE OUTCOMES

Upon the completion of the course, students will be able

- to learn the tools involved in the MATLAB
- analyze the biomedical signals and images using matlab programming
- implement the programming in GUI

TEXT BOOKS

1. MATLAB® Programming for Biomedical Engineers and Scientists, Andrew P.King, Paul Aljabar,

2. https://ocw.mit.edu/courses/mathematics/18-s997-introduction-to-matlab-programming-fall2011/index.htm

PAAVAI ENGINEERING COLLEGE (AUTONOMUS)

DEPARTMENT OF BIOMEDICAL ENGINEERING

VALUE ADDED COURSE ATTENDANCE SHEET

ACADEMIC YEAR: 2023-2024 DATE: 18.3.2024 to 22.03.2024

NAME OF THE COURSE: 21BMVC401- MATLAB PROGRAMMING

S.No	Name of the Students	Register Number	18/3	19/3	20/3	21/3	22/3
1	ABINAYA G	622121109002	✓	✓	✓	✓	✓
2	AJAY R	622121109003	✓	✓	✓	✓	✓
3	ARIHARAN V	622121109004	✓	✓	✓	✓	✓
4	ARUN C	622121109006	✓	✓	✓	✓	✓
5	BADRINATH V	622121109007	✓	✓	✓	✓	✓
6	BARATH A	622121109008	✓	✓	✓	✓	✓
7	BHUVANESHWARAN S	622121109009	✓	✓	✓	✓	✓
8	BHUVANESHWARI T	622121109010	✓	✓	✓	✓	✓
9	DHARANI M	622121109011	✓	✓	✓	✓	✓
10	DHILIP S	622121109012	✓	✓	✓	✓	✓
11	DINESH S	622121109013	✓	✓	✓	✓	✓
12	GOBIDHA K	622121109014	✓	✓	✓	✓	✓
13	GOKUL RAJA G	622121109015	✓	✓	✓	✓	✓
14	GUGANBALA G	622121109017	✓	✓	✓	✓	✓
15	JAYAKANNAN S	622121109019	✓	✓	✓	✓	✓
16	JAYARAM C	622121109020	✓	✓	✓	✓	✓
17	JAYASRI A	622121109021	✓	✓	✓	✓	✓
18	JAYASURYA N	622121109022	✓	✓	✓	✓	✓
19	KAVIYARASAN M	622121109024	✓	✓	✓	✓	✓
20	KEERTHIPRIYA S	622121109025	✓	✓	✓	✓	✓
21	KIRUBAKARAN J	622121109026	✓	✓	✓	✓	✓

47	SURIYA P	622121109056	✓	✓	✓	✓	✓
48	VASANTHKUMAR S	622121109057	✓	✓	✓	✓	✓
49	VIGNESH T	622121109058	✓	✓	✓	✓	✓
50	VIMAL RAJ R	622121109059	✓	✓	✓	✓	✓
51	VINOTH S	622121109060	✓	✓	✓	✓	✓
52	YOGAMOZHI S	622121109061	✓	✓	✓	✓	✓
53	YUVARAJ S R	622121109062	✓	✓	✓	✓	✓
54	SANJUKA D	622121109047	✓	✓	✓	✓	✓

COURSE COORDINATOR

HOD

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Biomedical Engineering

CERTIFICATE

This is to certify

PRAVEEN. V

of Paavai Engineering College, studying in **THIRD Year** has successfully completed the **MATLAB programming** course from 18/3/2024 to 22/3/2024

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Biomedical Engineering

CERTIFICATE

This is to certify

LOGAMANIMEGALAI V

of Paavai Engineering College, studying in **THIRD Year** has successfully completed the **MATLAB programming** course from 18/3/2024 to 22/3/2024

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Biomedical Engineering

CERTIFICATE

This is to certify

ABINAYA G

of Paavai Engineering College, studying in **THIRD Year** has successfully completed the **MATLAB programming** course from 18/3/2024 to 22/3/2024

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Biomedical Engineering

CERTIFICATE

This is to certify

GOBIDHA K

of Paavai Engineering College, studying in **THIRD Year** has successfully completed the **MATLAB programming** course from 18/3/2024 to 22/3/2024

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Biomedical Engineering

CERTIFICATE

This is to certify

KEERTHIPRIYA. S

of Paavai Engineering College, studying in **THIRD Year** has successfully completed the **MATLAB programming** course from 18/3/2024 to 22/3/2024

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)
NAMAKKAL
DEPARTMENT OF CIVIL ENGINEERING

DATE: 08.09.2023

CIRCULAR

It is planned to conduct Value Added Course on **"23CEVC301 – CARPENTRY FOR BUILDINGS"** for the students of Second Year (Odd Semester) in the AY 2023-2024 from 12.09.2023 to 16.09.2023. The interested students are asked to enroll their names to the course coordinator Mrs. S.Rajeswari, AP/Civil on or before 10.09.2023.

Course Coordinator:

1. Mrs. S.Rajeswari, AP/Civil
2. Mr.S.Suryaprakash, AP/ Civil

HOD/Civil

Copy to: Notice board.

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)

NAMAKKAL – 637 018
DEPARTMENT OF CIVIL ENGINEERING

Value Added Course

23CEVC301 – CARPENTRY FOR BUILDINGS

❖ The Carpentry for Buildings course is designed to equip students with the skills and knowledge required to construct, install, and repair structures and fixtures made of wood, wood substitutes, and other materials.

❖ Carpenters use a variety of tools, both power and hand, to work with wood and create finished products. They need to be accurate when measuring and cutting to ensure everything fits together smoothly and no wood is wasted. Carpenters also need to have good math skills to perform calculations and determine how much material is needed for a project.

Date : 12.09.2023 to 16.09.2023

Venue : Engineering Practices Laboratory.

Course Co-ordinators :

1. Mrs. S.Rajeswari, AP/Civil
2. Mr.S.Suryaprakash, AP/ Civil

23CEVC301 CARPENTRY FOR BUILDINGS 0 0 1 1

COURSE OBJECTIVE

To enable the students to,

- impart knowledge on the usage of carpentry tools used for buildings.

MODULE I

Introduction to Carpentry - Safety precaution of the carpentry hand tools, Measuring, marking and testing tools, types, sizes, uses; Wood working machines - Band Saw, Circular saw, Planning machine and Wood Turning Lathe with Turning tools; Types of door frames and door shutters - description, sizes, uses, advantages and disadvantages; Fittings used in door; Types of panels used in panel shutter and glazed shutter; Types of window frame and window shutters; Basic principle of repairing work and repairing technique of furniture, door, window, rack etc.

TOTAL PERIODS 30

COURSE OUTCOMES

Upon the completion of this course, the students will be able to

- explain the purpose of using various hand tools for Carpentry work.

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)

NAMAKKAL

DEPARTMENT OF CIVIL ENGINEERING

Academic Year: 2023-24

VALUE ADDED COURSE

ATTENDANCE SHEET

Year/Semester : II/III

Name of the course : 23CEVC301 CARPENTRY FOR BUILDINGS

S:No	Register Number	Student Name	12/9/23	13/9/23	14/9/23	15/9/23	16/9/23
1	622122103002	ANIE TREESA JOY	/	/	/	/	/
2	622122103003	BALAJI P	/	/	/	/	/
3	622122103004	DHANUSH M	/	/	/	/	/
4	622122103005	DHARANISH P	/	/	/	/	/
5	622122103007	GAYATHRI S	/	/	/	/	/
6	622122103008	HARIKEERTHI R	/	/	/	/	/
7	622122103009	HARISH S	/	/	/	/	/
8	622122103010	HEMAVATHI K	/	/	/	/	/
9	622122103011	JANANI T	/	/	AB	/	/
10	622122103012	JEGANATHAN R	/	/	/	AB	/
11	622122103013	KRISHNASAMY C	/	/	/	/	/
12	622122103014	KUBERAN A	/	/	/	/	/
13	622122103015	LOGESHWARAN M J	/	/	/	/	/
14	622122103016	PRASATH P	AB	/	/	/	/
15	622122103017	PRAVEEN R	/	AB	/	/	/
16	622122103018	RAHUL ROHITH G S	/	/	/	/	AB
17	622122103019	RAMAN M	/	/	/	/	/
18	622122103020	RANJITHA R	/	/	/	/	/
19	622122103021	SHARMA J M	/	/	/	/	/
20	622122103022	SUGUMAR R	/	/	/	/	/
21	622122103023	THENMOZHI V	/	/	/	/	/
22	**622122103024**	**VAISHNAVI N**	/	/	/	/	/

23	622122103025	VIJAY S	/	/	/	/	/
24	622122103026	VIMALA B	/	/	/	/	AB
25	622122103027	YASWANTH K	/	/	/	/	/
26	622122103301	DHINAKARAN.A	/	/	/	/	/
27	622122103302	GOPI.A	/	/	/	/	/

Course Coordinators

1. Mrs.S.Rajeswari

2. Mr.S.Suryaprakash

HoD-Civil

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

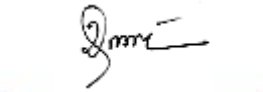
Department of Civil Engineering

CERTIFICATE

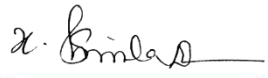
This is to certify that

ANIE TREESA JOY

of Paavai Engineering College, studying in **Second year** has successfully completed the Value added Course 23CEVC301 – Carpentry for Buildings. The duration of the Course is 30hours (**12/09/2023 to 16/09/2023)** .



Course Incharge



HoD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Civil Engineering

CERTIFICATE

This is to certify that

BALAJI P

of Paavai Engineering College, studying in **Second year** has successfully completed the Value added Course 23CEVC301 – Carpentry for Buildings. The duration of the Course is 30hours (**12/09/2023 to 16/09/2023)** .

Course Incharge | HoD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Civil Engineering

CERTIFICATE

This is to certify that

DHANUSH M

of Paavai Engineering College, studying in **Second year** has successfully completed the Value added Course 23CEVC301 – Carpentry for Buildings. The duration of the Course is 30hours (**12/09/2023 to 16/09/2023)** .

Course Incharge | HoD | Principal

PAAVAI ENGINEERING COLLEGE

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Department of Civil Engineering

CERTIFICATE

This is to certify that

DHARANISH P

of Paavai Engineering College, studying in **Second year** has successfully completed the Value added Course 23CEVC301 – Carpentry for Buildings. The duration of the Course is 30hours (**12/09/2023 to 16/09/2023)** .

Course Incharge | HoD | Principal

PAAVAI ENGINEERING COLLEGE

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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Civil Engineering

CERTIFICATE

This is to certify that

GAYATHRI S

of Paavai Engineering College, studying in **Second year** has successfully completed the Value added Course 23CEVC301 – Carpentry for Buildings. The duration of the Course is 30hours (**12/09/2023 to 16/09/2023)** .

Course Incharge | HoD | Principal

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)
NAMAKKAL
DEPARTMENT OF CIVIL ENGINEERING

DATE: 08.09.2023

CIRCULAR

It is planned to conduct Value Added Course on **"23CEVC501 – BUILDING CONSTRUCTION PROCESS"** for the students of Third Year (Odd Semester) in the AY 2023-2024 from 12.09.2023 to 16.09.2023. The interested students are asked to enroll their names to the course coordinator Mrs. B. Kiruthika, AP/Civil on or before 10.09.2023.

Course Coordinator:

1. Mrs. B. Kiruthika, AP/Civil
2. Mrs. M. Sreeajantha

HOD/Civil

Copy to: Notice board.

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)

NAMAKKAL – 637 018
DEPARTMENT OF CIVIL ENGINEERING

Value Added Course

23CEVC501 – BUILDING CONSTRUCTION PROCESS

❖ Building construction describes the physical activity on a construction site that contributes to building or structure construction. This process involves unloading plant, machinery, materials, cladding, fixture, fitting of installations, formwork, and external finish.

❖ The building construction process is a series of routine tasks completed by skilled persons. It involves a lot of time and tedious work and must be managed carefully. This process can be split into three phases: preconstruction, construction, and post-construction.

Date : 12.09.2023 to 16.09.2023

Venue : Construction Site

Course Co-ordinators :

1. Mrs. B. Kiruthika, AP/Civil
2. Mrs. M. Sreeajantha

23CEVC501 BUILDING CONSTRUCTION PROCESS 1 0 1 1

COURSE OBJECTIVE

To enable the students to

- study the building construction technology

MODULE I

Pre-construction steps - To acquire land or plot, To seek technical help, Preparing estimate and budget, permission from Authorities, Approach a builder; Building construction steps - Site preparation or Levelling, Excavation and PCC, Foundation, Plinth beam and slab; Super structure - Column, Brick masonry work, Floor slab, Door window framing and fixations, Electrical and Plumbing, Terrace and roof finishing, Internal finishing, woodwork and fixture fittings, water proofing, Painting work.

TOTAL PERIODS 30

COURSE OUTCOMES

Upon the completion of this course, the students will be able to

- explain about the building construction methods

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)

NAMAKKAL

DEPARTMENT OF CIVIL ENGINEERING

Academic Year: 2023-24

VALUE ADDED COURSE

ATTENDANCE SHEET

Year/Semester : III /V

Name of the course : 23CEVC501 - BUILDING CONSTRUCTION PROCESS

S:No	Register Number	Student Name	12/9/23	13/9/23	14/9/23	15/9/23	16/9/23
1	622121103001	AKALYA T	/	/	/	/	/
2	622121103003	ASWIN P	/	/	/	/	/
3	622121103005	DEEPAUK.R.D	/	/	AB	/	/
4	622121103006	DHANUSH.L	/	/	/	/	/
5	622121103009	GOVINDARAJ.G	/	/	/	AB	/
6	622121103010	JAISURYA.S	/	/	/	/	/
7	622121103011	KARTHIKEYAN.K.P	/	/	/	/	AB
8	622121103012	KOWSHIKA.K.E	/	/	/	/	/
9	622121103013	MOHANRAJ.E	AB	/	/	/	/
10	622121103014	MUTHAIYA MURALITHARAN.T	/	/	/	/	/
11	622121103015	NEETHU.G	/	/	/	/	/
12	622121103016	PANDIYARAJAN.M	/	/	/	/	/
13	622121103017	PERIKALA ABHISHEK	/	AB	/	/	/
14	622121103018	PRAVEEN.L	/	/	/	/	/
15	622121103021	SANDHIYA.K	/	/	AB	/	/
16	622121103022	SARATHI.B	/	/	/	/	/
17	622121103024	SIVA.S	/	/	/	/	/
18	622121103025	SUDHA.M	/	/	/	/	/
19	622121103027	VIKRAM.S	/	/	/	/	/
20	622121103028	VISHWA.K	/	/	/	/	/
21	622121103030	KEERTHANA.R	/	/	/	/	/

22	622121103301	KALAIVENDHAN M	/	/	/	/	/
23	622121103501	ALUBILLI PARVATHI	/	/	AB	/	/

1. B. Kiruthika
2. Sreeajantha

Course Coordinators

1. Mrs.B.Kiruthika

2. Mrs.M.Sreeajantha

HoD-Civil

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PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Civil Engineering

CERTIFICATE

This is to certify that

AKALYA T

of Paavai Engineering College, studying in **Third year** has successfully completed the Value added Course 23CEVC501 – Building Construction Process. The duration of the Course is 30hours (**12/09/2023 to 16/09/2023)** .

Course Incharge	HoD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Civil Engineering

CERTIFICATE

This is to certify that

ASWIN P

of Paavai Engineering College, studying in **Third year** has successfully completed the Value added Course 23CEVC501 – Building Construction Process. The duration of the Course is 30hours (**12/09/2023 to 16/09/2023)** .

Course Incharge | HoD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Civil Engineering

CERTIFICATE

This is to certify that

DHANUSH L

of Paavai Engineering College, studying in **Third year** has successfully completed the Value added Course 23CEVC501 – Building Construction Process. The duration of the Course is 30hours (**12/09/2023 to 16/09/2023)** .

Course Incharge | HoD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Civil Engineering

CERTIFICATE

This is to certify that

KOWSHIKA K E

of Paavai Engineering College, studying in **Third year** has successfully completed the Value added Course 23CEVC501 – Building Construction Process. The duration of the Course is 30hours (**12/09/2023 to 16/09/2023)** .

Course Incharge | HoD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Civil Engineering

CERTIFICATE

This is to certify that

NEETHU G

of Paavai Engineering College, studying in **Third year** has successfully completed the Value added Course 23CEVC501 – Building Construction Process. The duration of the Course is 30hours (**12/09/2023 to 16/09/2023)** .

Course Incharge | HoD | Principal

23CEVC701	**QUANTITY CALCULATION FOR RESIDENTIAL BUILDING**	**1**	**0**	**1**	**1**

COURSE OBJECTIVE

To enable the students to

- estimate the quantity of item of works involved in residential building

MODULE I

Introduction - Excavation Quantity, Calculate Rubble soling Quantity (Specially for Weak Soil), Sand Filling Quantity, PCC Quantity, Calculation of water Required for 1 bag of cement, Footing Shuttering Quantity, Concrete Quantity, Brick work and Plastering

TOTAL PERIODS 30

COURSE OUTCOMES

Upon the completion of this course, the students will be able to

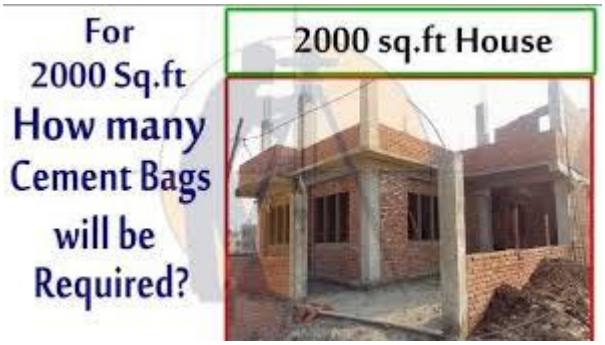
- compute the various quantities required for residential building

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)

NAMAKKAL – 637 018
DEPARTMENT OF CIVIL ENGINEERING

Value Added Course

23CEVC701 – QUANTITY CALCULATION FOR RESIDENTIAL BUILDING



❖ Quantity calculation in residential building construction involves calculating the amounts of materials needed for a project. This is an important step in estimating the cost of the project.

❖ A quantity estimate, also known as a material take-off or construction take-off, is a list of the quantities of materials needed for a project, along with the cost of each quantity.

Date : 12.09.2023 to 16.09.2023

Venue : T 225

Course Co-ordinators :

1. Mr. P.Vignesh, AP/Civil
2. Dr. Brightson, Prof / Civil

23CEVC701	**QUANTITY CALCULATION FOR RESIDENTIAL BUILDING**	**1**	**0**	**1**	**1**

COURSE OBJECTIVE

To enable the students to

- estimate the quantity of item of works involved in residential building

MODULE I

Introduction - Excavation Quantity, Calculate Rubble soling Quantity (Specially for Weak Soil), Sand Filling Quantity, PCC Quantity, Calculation of water Required for 1 bag of cement, Footing Shuttering Quantity, Concrete Quantity, Brick work and Plastering

TOTAL PERIODS 30

COURSE OUTCOMES

Upon the completion of this course, the students will be able to

- compute the various quantities required for residential building

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)

NAMAKKAL

DEPARTMENT OF CIVIL ENGINEERING

Academic Year: 2023-24

VALUE ADDED COURSE

ATTENDANCE SHEET

Year/Semester : IV / VII

Name of the course : 23CEVC701 - QUANTITY CALCULATION FOR RESIDENTIAL BUILDING

S:No	Register Number	Student Name	12/9/23	13/9/23	14/9/23	15/9/23	16/9/23
1	20103002	DEVENTHIRAN.E	/	/	/	/	/
2	20103003	DHARANI.V	/	/	/	/	/
3	20103004	DHARUN.D	/	/	/	/	/
4	20103005	GOHULA KRISHNAN.K	/	/	AB	/	/
5	20103006	GOKUL.M	/	/	/	/	AB
6	20103008	HUMAIRA.M	/	/	/	/	/
7	20103010	PRASANNA .S	/	AB	/	/	/
8	20103011	PRAVEEN.G	/	/	/	/	/
9	20103012	PRIYADHARSAN.T	/	/	/	/	/
10	20103013	RANJITH.P	/	/	/	/	/
11	20103014	RUBHINI.S	/	/	/	/	/
12	20103015	SARANKUMAR.S	/	/	/	/	/
13	20103016	SHARUMATHI.R	/	/	/	/	/
14	20103017	THENSWETHA.P.N	/	/	/	/	/
15	20103301	AAZIK RASUL. M	/	/	/	/	/
16	20103302	ARUNACHALAM N	/	/	/	/	/
17	20103305	KASTHURI P	/	/	/	/	/
18	20103306	KEERTHIKA P	/	/	/	/	/

19	20103308	PRAVEEN A	/	/	/	/	/
20	20103309	RAJA T	/	/	/	/	/
21	20103310	SOUNDHARYA A	/	/	AB	/	/
22	20103311	TAMILARASAN K	AB	AB	AB	AB	AB

1. Pish
2.

Course Coordinators

1. Mr.P.Vignesh

2. Dr.P.Brightson

HoD-Civil

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

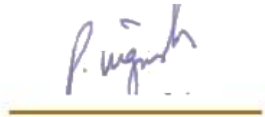
Department of Civil Engineering

CERTIFICATE

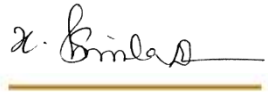
This is to certify that

DHARANI V

of Paavai Engineering College, studying in **Final year** has successfully completed the Value added Course 23CEVC701 – Quantity Calculation for Residential Building. The duration of the Course is 30hours (**12/09/2023 to 16/09/2023)** .



Course Incharge



HoD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Civil Engineering

CERTIFICATE

This is to certify that

DHARUN D

of Paavai Engineering College, studying in **Final year** has successfully completed the Value added Course 23CEVC701 – Quantity Calculation for Residential Building. The duration of the Course is 30hours (**12/09/2023 to 16/09/2023)** .

Course Incharge | HoD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

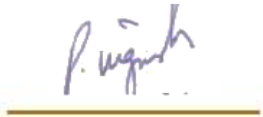
Department of Civil Engineering

CERTIFICATE

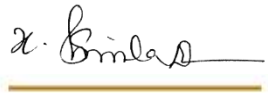
This is to certify that

GOKUL M

of Paavai Engineering College, studying in **Final year** has successfully completed the Value added Course 23CEVC701 – Quantity Calculation for Residential Building. The duration of the Course is 30hours (**12/09/2023 to 16/09/2023)** .



Course Incharge



HoD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

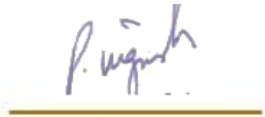
Department of Civil Engineering

CERTIFICATE

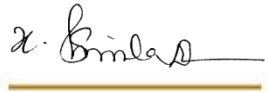
This is to certify that

RANJITH P

of Paavai Engineering College, studying in **Final year** has successfully completed the Value added Course 23CEVC701 – Quantity Calculation for Residential Building. The duration of the Course is 30hours (**12/09/2023 to 16/09/2023)** .



Course Incharge



HoD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Civil Engineering

CERTIFICATE

This is to certify that

RUBHINI S

of Paavai Engineering College, studying in **Final year** has successfully completed the Value added Course 23CEVC701 – Quantity Calculation for Residential Building. The duration of the Course is 30hours (**12/09/2023 to 16/09/2023)** .

Course Incharge | HoD | Principal

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)
NAMAKKAL
DEPARTMENT OF STRUCTURAL ENGINEERING

DATE: 08.09.2023

CIRCULAR

It is planned to conduct Value Added Course on **"23PSEVC101 – LIMIT STATE DESIGN OF REINFORCED CONCRETE"** for the students of First Year (Odd Semester) in the AY 2023-2024 from 12.09.2023 to 16.09.2023. The interested students are asked to enroll their names to the course coordinator Mr.M.Rajkannan, AP/Civil on or before 10.09.2023.

Course Coordinator:

1. Mr.M.Rajkannan, AP/Civil

HOD/Civil

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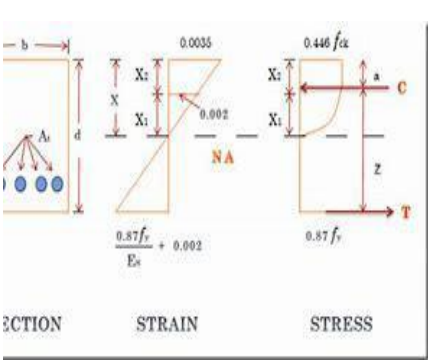
PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)

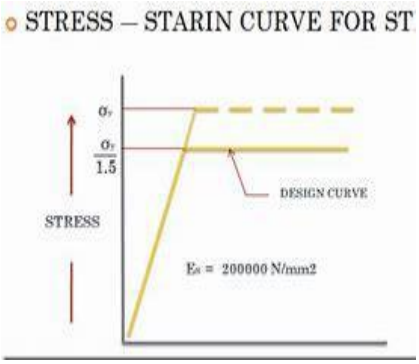
NAMAKKAL – 637 018

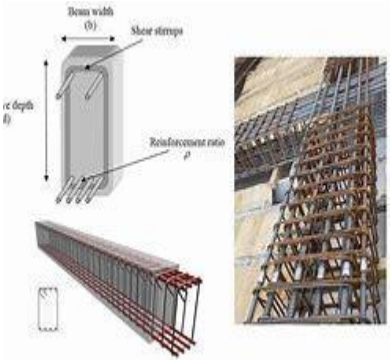
DEPARTMENT OF STRUCTURAL ENGINEERING

Value Added Course

23PSEVC101 - LIMIT STATE DESIGN OF REINFORCED CONCRETE BEAM







- In this course, basic elements governed by bending, shear, axial forces or combination of them are identified and are considered as building blocks of the whole structure. Different methods of design will be briefly described before introducing the limit states of collapse and serviceability.
- This course also covers the topics such as Introduction, Different methods of design of reinforced concrete structures, Design of singly reinforced beam, Design of doubly reinforced beam, Limit state of collapse – shear, Limit state of serviceability.

Date : 12.09.2023 to 16.09.2023

Venue : T225

Course Co-ordinator :

1. Mr.M.Rajkannan, AP/Civil

23PSEVC101 LIMIT STATE DESIGN OF REINFORCED CONCRETE BEAM 1 0 1 1

COURSE OBJECTIVE

To enable the students to

- gain knowledge on design of reinforced beams and understand the concepts of Limit state design

MODULE I

Concept of reinforced concrete, Working Stress Method (WSM) of design for reinforced concrete, permissible stresses as per IS-456-2000; stress- strain curve of concrete and steel, characteristics of concrete steel reinforcement. Concept of balanced, under reinforced and over reinforced sections. Analysis design of singly reinforced and doubly reinforced rectangular beams for flexure, shear by WSM, Analysis and design of Cracked and un-cracked RCC column sections by WSM. Limit state of collapse in flexure, shear and Limit state of serviceability in deflection and cracking, design of singly and doubly reinforced rectangular and T sections for flexure, design of members in shear and bond, design of beam subjected to bending and torsion. Requirements governing reinforcement detailing. Deflection and crack width calculation for RCC members.

TOTAL PERIODS 30

COURSE OUTCOMES

Upon the completion of this course, the students will be able to

- apply gained knowledge on design of reinforced beams and implement the concepts of Limit state design

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)

NAMAKKAL

DEPARTMENT OF STRUCTURAL ENGINEERING

Academic Year: 2023-24

VALUE ADDED COURSE

ATTENDANCE SHEET

Year/Semester : I / I

Name of the course : 23PSEVC101 - LIMIT STATE DESIGN OF REINFORCED CONCRETE BEAM

S:No	Register Number	Student Name	12/9/23	13/9/23	14/9/23	15/9/23	16/9/23
1	622123307001	GOPI	/	/	AB	AB	AB
2	622123307002	SUBASH CHNDRA BOSE A	/	/	/	/	/

Course Coordinator

1. Mr.M.Rajkannan

HoD-Civil

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Structural Engineering

CERTIFICATE

This is to certify that

SUBASH CHANDRA BOSE A

of Paavai Engineering College, studying in **First year** has successfully completed the Value added Course 23PSEVC101 - Limit State Design Of Reinforced Concrete Beam. The duration of the Course is 30hours (**12/09/2023 to 16/09/2023)** .

Course Incharge | HoD | Principal

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)
NAMAKKAL
DEPARTMENT OF STRUCTURAL ENGINEERING

DATE: 08.09.2023

CIRCULAR

It is planned to conduct Value Added Course on **"23PSEVC301 – STRUCTURAL ENGINEERING OPTIMIZATION"** for the students of Second Year (Odd Semester) in the AY 2023-2024 from 12.09.2023 to 16.09.2023. The interested students are asked to enroll their names to the course coordinator Mrs.A.Dharani, AP/Civil on or before 10.09.2023.

Course Coordinator:

1. Mrs.A.Dharani, AP/Civil

HOD/Civil

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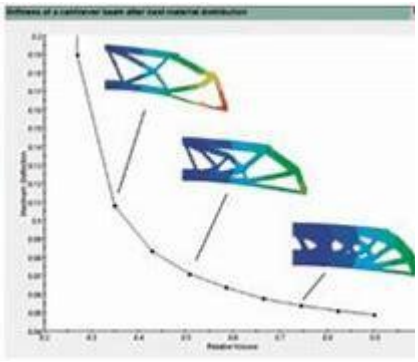
PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)

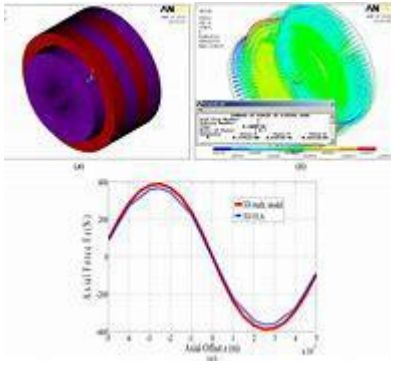
NAMAKKAL – 637 018

DEPARTMENT OF STRUCTURAL ENGINEERING

Value Added Course

23PSEVC301 - STRUCTURAL ENGINEERING OPTIMIZATION





- Design optimization is more than reducing weight. It's about maximizing performance and efficiency of material application while minimizing life-cycle cost.
- Finite Element technology provides us with tools for structural design optimization throughout several design phases. Techniques that attempt to improve or find the best mechanical structures such as size, shape and topology optimization is discussed here.

Date : 12.09.2023 to 16.09.2023

Venue : T132

Course Co-ordinator :

1. Mrs.A.Dharani, AP/Civil

23PSEVC301 STRUCTURAL ENGINEERING OPTIMIZATION 1 0 1 1

COURSE OBJECTIVE

To enable the students to

- Understand the theory of optimization methods and algorithms developed for solving various types of optimization problems.

MODULE I

Introduction to Optimization: Introduction - Historical developments – Engineering applications of Optimization - Statement of an Optimization problem - Classification of Optimization problems - Optimization Techniques. Optimization by calculus: Introduction - Unconstrained functions of a single variable - Problems involving simple constraints - Unconstrained functions of several variables - treatment of equality constraints – Extension to multiple equality constraints - Optimization with inequality constraints - The generalized Newton-Raphson method. Network Analysis: Introduction - Elementary graph theory - Network variables and problem types - Minimum-cost route – Network capacity problems - Modification of the directional sense of the network - Application of Optimization techniques to trusses, Beams and Frames.

TOTAL PERIODS 30

COURSE OUTCOMES

Upon the completion of this course, the students will be able to

- formulate optimization models for a wide range of civil engineering problems and able to solve them.

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)

NAMAKKAL

DEPARTMENT OF STRUCTURAL ENGINEERING

Academic Year: 2023-24

VALUE ADDED COURSE

ATTENDANCE SHEET

Year/Semester : II / III

Name of the course : 23PSEVC301 - STRUCTURAL ENGINEERING OPTIMIZATION

S:No	Register Number	Student Name	12/9/23	13/9/23	14/9/23	15/9/23	16/9/23
1	622122307001	ARULMANI C	/	/	/	/	/
2	622122307005	GOWTHAM R	/	/	/	/	/
3	622122307006	KAMALI THARANI N	/	/	/	/	/
4	622122307007	KAVIYARASAN C	/	/	/	AB	/
5	622122307008	MANIKANDAN M	/	/	/	/	/
6	622122307009	MANOJ KUMAR S	/	/	/	/	/
7	622122307010	PARTHIBAN P	/	/	/	/	AB
8	622122307016	SUTHAKAR D	/	/	/	/	/

Course Coordinator

HoD-Civil

1. Mrs.A.Dharani

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Structural Engineering

CERTIFICATE

This is to certify that

GOWTHAM R

of Paavai Engineering College, studying in **Second year** has successfully completed the Value added Course 23PSEVC301 - Structural Engineering Optimization. The duration of the Course is 30hours (**12/09/2023 to 16/09/2023)** .

Course Incharge | HoD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Structural Engineering

CERTIFICATE

This is to certify that

KAMALI THARANI N

of Paavai Engineering College, studying in **Second year** has successfully completed the Value added Course 23PSEVC301 - Structural Engineering Optimization. The duration of the Course is 30hours (**12/09/2023 to 16/09/2023)** .

Course Incharge | HoD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Structural Engineering

CERTIFICATE

This is to certify that

MANIKANDAN M

of Paavai Engineering College, studying in **Second year** has successfully completed the Value added Course 23PSEVC301 - Structural Engineering Optimization. The duration of the Course is 30hours (**12/09/2023 to 16/09/2023)** .

Course Incharge | HoD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Structural Engineering

CERTIFICATE

This is to certify that

PARTHIBAN P

of Paavai Engineering College, studying in **Second year** has successfully completed the Value added Course 23PSEVC301 - Structural Engineering Optimization. The duration of the Course is 30hours (**12/09/2023 to 16/09/2023)** .

Course Incharge | HoD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Structural Engineering

CERTIFICATE

This is to certify that

SUTHAKAR D

of Paavai Engineering College, studying in **Second year** has successfully completed the Value added Course 23PSEVC301 - Structural Engineering Optimization. The duration of the Course is 30hours (**12/09/2023 to 16/09/2023)** .

Course Incharge | HoD | Principal

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)
NAMAKKAL
DEPARTMENT OF CIVIL ENGINEERING

DATE: 20.03.2024

CIRCULAR

It is planned to conduct Value Added Course on **"23CEVC401 – ELECTRICAL WIRING FOR BUILDINGS"** for the students of Second Year (Even Semester) in the AY 2023-2024 from 25.03.2024 to 29.03.2024. The interested students are asked to enroll their names to the course coordinator Prof. K.Sharmiladevi, HoD/Civil on or before 23.03.2024.

Course Coordinator:

1. Prof. K.Sharmiladevi, HoD/Civil

HOD/Civil

Copy to: Notice board.

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)

NAMAKKAL – 637 018
DEPARTMENT OF CIVIL ENGINEERING

Value Added Course

23CEVC401 – ELECTRICAL WIRING FOR BUILDINGS

❖ Electrical wiring is an electrical installation of cabling and associated devices such as switches, distribution boards, sockets, and light fittings in a structure. Wiring is subject to safety standards for design and installation.

❖ Wiring is subject to safety standards for design and installation. Allowable wire and cable types and sizes are specified according to the circuit operating voltage and electric current capability, with further restrictions on the environmental conditions, such as ambient temperature range, moisture levels, and exposure to sunlight and chemicals.

Date : 25.03.2024 to 29.03.2024

Venue : Engineering Practices Laboratory.

Course Co-ordinator :

1. Prof. K.Sharmiladevi, HoD/Civil

23CEVC401 ELECTRICAL WIRING FOR BUILDINGS 1 0 1 1

COURSE OBJECTIVE

To enable the students to

- understand the different types of wires and cables.

MODULE I

Electrical installations, domestics, industrial, Wiring System, Internal distribution of Electrical Energy. Methods of wiring, systems of wiring, wire and cable, conductor materials used in cables, insulating materials mechanical protection. Types of cables used in internal wiring, multi-stranded cables, voltage grinding of cables, general specifications of cables; General rules for wiring, determination of number of points (light, fan, socket, outlets), determination of total load, determination of Number of sub-circuits; Type of internal wiring, cleat wiring, CTS wiring, wooden casing capping, metal sheathed wiring, conduit wiring, their advantage and disadvantages comparison and applications.

TOTAL PERIODS 30

COURSE OUTCOMES

Upon the completion of this course, the students will be able to

- describe about the types of wires and cables.

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)

NAMAKKAL

DEPARTMENT OF CIVIL ENGINEERING

Academic Year: 2023-24

VALUE ADDED COURSE

ATTENDANCE SHEET

Year/Semester : II/IV

Name of the course : 23CEVC401 - ELECTRICAL WIRING FOR BUILDINGS

S:No	Register Number	Student Name	18/3/24	19/3/24	20/3/24	21/3/24	22/3/24
1	622122103002	ANIE TREESA JOY	✓	✓	✓	✓	✓
2	622122103003	BALAJI P	✓	✓	✓	✓	✓
3	622122103004	DHANUSH M	✓	✓	✓	✓	✓
4	622122103005	DHARANISH P	✓	✓	✓	✓	✓
5	622122103007	GAYATHRI S	✓	✓	✓	✓	✓
6	622122103008	HARIKEERTHI R	✓	✓	✓	✓	✓
7	622122103009	HARISH S	✓	✓	✓	✓	✓
8	622122103010	HEMAVATHI K	✓	✓	✓	✓	✓
9	622122103011	JANANI T	✓	✓	✓	✓	AB
10	622122103012	JEGANATHAN R	✓	✓	AB	✓	✓
11	622122103013	KRISHNASAMY C	✓	✓	✓	✓	✓
12	622122103014	KUBERAN A	✓	✓	✓	✓	✓
13	622122103015	LOGESHWARAN M J	✓	✓	✓	✓	✓
14	622122103016	PRASATH P	✓	✓	✓	AB	✓
15	622122103017	PRAVEEN R	✓	✓	✓	AB	✓
16	622122103018	RAHUL ROHITH G S	✓	✓	AB	✓	✓
17	622122103019	RAMAN M	✓	✓	✓	✓	✓
18	622122103020	RANJITHA R	✓	✓	✓	✓	✓
19	622122103021	SHARMA J M	✓	✓	✓	✓	✓
20	622122103022	SUGUMAR R	✓	✓	✓	✓	✓
21	622122103023	THENMOZHI V	✓	✓	✓	✓	✓
22	622122103024	VAISHNAVI N	✓	✓	✓	✓	✓

23	622122103025	VIJAY S	/	/	/	/	/
24	622122103026	VIMALA B	/	/	/	AB	/
25	622122103027	YASWANTH K	/	/	/	/	/
26	622122103301	DHINAKARAN.A	AB	/	/	/	/
27	622122103302	GOPI.A	/	/	/	/	/

Course Coordinators

1. Prof. K.Sharmiladevi

HoD-Civil

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Civil Engineering

CERTIFICATE

This is to certify that

HEMAVATHI K

of Paavai Engineering College, studying in **Second year** has successfully completed the Value added Course 23CEVC401 – Electrical Wiring for Buildings. The duration of the Course is 30hours (**25/03/2024 to 29/03/2024)** .

Course Incharge | HoD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Civil Engineering

CERTIFICATE

This is to certify that

KUBERAN A

of Paavai Engineering College, studying in **Second year** has successfully completed the Value added Course 23CEVC401 – Electrical Wiring for Buildings. The duration of the Course is 30hours (**25/03/2024 to 29/03/2024)** .

Course Incharge | HoD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Civil Engineering

CERTIFICATE

This is to certify that

LOGESHWARAN M J

of Paavai Engineering College, studying in **Second year** has successfully completed the Value added Course 23CEVC401 – Electrical Wiring for Buildings. The duration of the Course is 30hours (**25/03/2024 to 29/03/2024)** .

Course Incharge | HoD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Civil Engineering

CERTIFICATE

This is to certify that

RANJITHA R

of Paavai Engineering College, studying in **Second year** has successfully completed the Value added Course 23CEVC401 – Electrical Wiring for Buildings. The duration of the Course is 30hours (**25/03/2024 to 29/03/2024)** .

Course Incharge | HoD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Civil Engineering

CERTIFICATE

This is to certify that

HEMAVATHI K

of Paavai Engineering College, studying in **Second year** has successfully completed the Value added Course 23CEVC401 – Electrical Wiring for Buildings. The duration of the Course is 30hours (**25/03/2024 to 29/03/2024)** .

Course Incharge | HoD | Principal

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)
NAMAKKAL
DEPARTMENT OF CIVIL ENGINEERING

DATE: 20.03.2024

CIRCULAR

It is planned to conduct Value Added Course on **"23CEVC601 - DIFFERENTIAL GLOBAL POSITIONING SYSTEM SURVEYING"** for the students of Third Year (Even Semester) in the AY 2023-2024 from 25.03.2024 to 29.03.2024. The interested students are asked to enroll their names to the course coordinator Mr.A.Jayapal, AP/Civil on or before 23.03.2024.

Course Coordinator:

1. Mr.A.Jayapal, AP/Civil
2. Mr.K.R.Prabhakaran, AP/ Civil

HOD/Civil

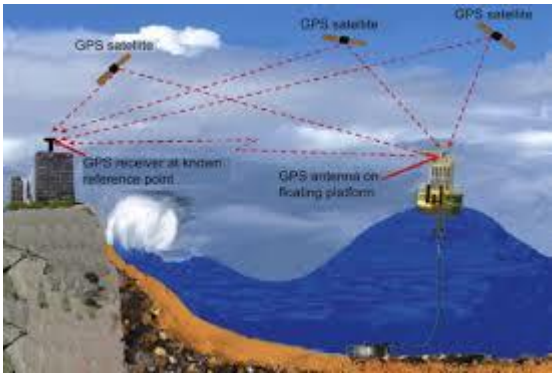
Copy to: Notice board.

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)

NAMAKKAL – 637 018
DEPARTMENT OF CIVIL ENGINEERING

Value Added Course

23CEVC601 - DIFFERENTIAL GLOBAL POSITIONING SYSTEM SURVEYING



❖ Differential Global Positioning System (DGPS) surveying is a technique that uses satellites and reference stations to improve the accuracy of GPS receivers. DGPS is a key tool for professional surveyors and military personnel, and is also used in many other applications:

❖ DGPS is used in land surveying to improve location accuracy, which is important for infrastructure projects like road development and utility installations.

❖ DGPS is used for precision farming applications like crop monitoring, yield mapping, and automated machinery guidance.

Date : 25.03.2024 to 29.03.2024

Venue : Field & T226

Course Co-ordinators :

1. Mr.A.Jayapal, AP/Civil
2. Mr.K.R.Prabhakaran, AP/ Civil

DIFFERENTIAL GLOBAL POSITIONING SYSTEM

23CEVC601 **SURVEYING** **1 0 1 1**

COURSE OBJECTIVE

To enable the students to

- gain the fundamental principles of GPS and DGPS.

MODULE I

Introduction to GPS and DGPS – Concept, history, applications, need; DGPS Techniques - DGPS Components and Operation - reference stations, base stations, and rovers; Practical considerations for setting up and operating a DGPS system; Error Analysis and Mitigation - Sources of error in GPS measurements: atmospheric, multipath, receiver - Differential correction techniques: code-based, carrier-phase, and hybrid. Error modeling and estimation in DGPS. DGPS Data Processing.

TOTAL PERIODS 30

COURSE OUTCOMES

Upon the completion of this course, the students will be able to

- know the application of GPS and DGPS

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)

NAMAKKAL

DEPARTMENT OF CIVIL ENGINEERING

Academic Year: 2023-24

VALUE ADDED COURSE

ATTENDANCE SHEET

Year/Semester : III / VI

Name of the course : 23CEVC601 - DIFFERENTIAL GLOBAL POSITIONING SYSTEM SURVEYING

S:No	Register Number	Student Name	18/3/24	19/3/24	20/3/24	21/3/24	22/3/24
1	622121103001	AKALYA T	/	/	/	/	/
2	622121103003	ASWIN P	/	/	/	/	/
3	622121103005	DEEPAUK.R.D	/	/	/	/	/
4	622121103006	DHANUSH.L	/	/	/	/	/
5	622121103009	GOVINDARAJ.G	/	/	/	/	AB
6	622121103010	JAISURYA.S	/	/	/	/	/
7	622121103011	KARTHIKEYAN.K.P	/	AB	/	/	/
8	622121103012	KOWSHIKA.K.E	/	/	/	/	/
9	622121103013	MOHANRAJ.E	/	/	/	/	AB
10	622121103014	MUTHAIYA MURALITHARAN.T	/	/	/	/	/
11	622121103015	NEETHU.G	/	/	/	/	/
12	622121103016	PANDIYARAJAN.M	/	/	/	/	/
13	622121103017	PERIKALA ABHISHEK	/	/	AB	/	/
14	622121103018	PRAVEEN.L	/	/	/	/	/
15	622121103021	SANDHIYA.K	/	/	/	/	/
16	622121103022	SARATHI.B	/	/	/	/	/
17	622121103024	SIVA.S	/	/	/	/	/
18	622121103025	SUDHA.M	/	/	/	/	/
19	622121103027	VIKRAM.S	/	/	/	/	/
20	622121103028	VISHWA.K	/	/	/	/	/

21	622121103030	KEERTHANA.R	/	/	/	/	/
22	622121103301	KALAIVENDHAN M	/	/	/	/	/
23	622121103501	ALUBILLI PARVATHI	/	AB	AB	AB	AB

1.
2. K.R. Prabhakaran

Course Coordinators

HoD-Civil

1. Mr.A.Jayapal

2. Mr. K.R.Prabhakaran

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Civil Engineering

CERTIFICATE

This is to certify that

MUTHAIYA MURALITHARAN T

of Paavai Engineering College, studying in **Third year** has successfully completed the Value added Course 23CEVC601 – Differential Global Positioning System Surveying. The duration of the Course is 30hours (**25/03/2024 to 29/03/2024)** .

Course Incharge	HoD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Civil Engineering

CERTIFICATE

This is to certify that

SANDHIYA K

of Paavai Engineering College, studying in **Third year** has successfully completed the Value added Course 23CEVC601 – Differential Global Positioning System Surveying. The duration of the Course is 30hours (**25/03/2024 to 29/03/2024)** .

Course Incharge | HoD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Civil Engineering

CERTIFICATE

This is to certify that

SARATHI B

of Paavai Engineering College, studying in **Third year** has successfully completed the Value added Course 23CEVC601 – Differential Global Positioning System Surveying. The duration of the Course is 30hours (**25/03/2024 to 29/03/2024)** .

Course Incharge | HoD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Civil Engineering

CERTIFICATE

This is to certify that

SIVA S

of Paavai Engineering College, studying in **Third year** has successfully completed the Value added Course 23CEVC601 – Differential Global Positioning System Surveying. The duration of the Course is 30hours (**25/03/2024 to 29/03/2024)** .

Course Incharge | HoD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Civil Engineering

CERTIFICATE

This is to certify that

VISHWA K

of Paavai Engineering College, studying in **Third year** has successfully completed the Value added Course 23CEVC601 – Differential Global Positioning System Surveying. The duration of the Course is 30hours (**25/03/2024 to 29/03/2024)** .

Course Incharge | HoD | Principal

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)
NAMAKKAL
DEPARTMENT OF CIVIL ENGINEERING

DATE: 14.03.2024

CIRCULAR

It is planned to conduct Value Added Course on **"23CEVC801 – CRACK MONITORING AND ITS MAINTENANCE"** for the students of Final Year (Even Semester) in the AY 2023-2024 from 18.03.2024 to 22.03.2024. The interested students are asked to enroll their names to the course coordinator Mr.N.Moorthi, AP/Civil on or before 16.03.2024.

Course Coordinator:

1. Mr.N.Moorthi, AP/Civil
2. Dr.A.Vijayakumar, Prof / Civil

HOD/Civil

Copy to: Notice board.

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)

NAMAKKAL – 637 018
DEPARTMENT OF CIVIL ENGINEERING

Value Added Course

23CEVC801 – CRACK MONITORING AND ITS MAINTENANCE

- Crack monitoring is the process of measuring and recording the changes in cracks in a structure or wall over time. It's important to monitor cracks because they can be an early warning sign of potential failures.
- Once cracks are identified, they need to be monitored to ensure that they do not expand and become worse during the construction process. Observing and measuring the identified cracks during the construction process is known as crack monitoring.

Date : 25.03.2024 to 29.03.2024

Venue : Temple Tower Building & T229

Course Co-ordinators :

1. Mr.N.Moorthi, AP/Civil
2. Dr.A.Vijayakumar, Prof / Civil

23CEVC801 CRACK MONITORING AND ITS MAINTENANCE 1 0 1 1

COURSE OBJECTIVE

To enable the students to

- equip the students with a knowledge of properties and microstructure of concrete

MODULE I

Introduction - Excavation Quantity, Calculate Rubble soling Quantity (Specially for Weak Soil), Sand Filling Quantity, PCC Quantity, Calculation of water Required for 1 bag of cement, Footing Shuttering Quantity, Concrete Quantity, Brick work and Plastering

TOTAL PERIODS 30

COURSE OUTCOMES

Upon the completion of this course, the students will be able to

- compute the various quantities required for residential building

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)

NAMAKKAL

DEPARTMENT OF CIVIL ENGINEERING

Academic Year: 2023-24

VALUE ADDED COURSE

ATTENDANCE SHEET

Year/Semester : IV / VIII

Name of the course : 23CEVC801 - CRACK MONITORING AND ITS MAINTENANCE

S:No	Register Number	Student Name	18/3/24	19/3/24	20/3/24	21/3/24	22/3/24
1	20103002	DEVENTHIRAN.E	/	/	/	/	/
2	20103003	DHARANI.V	/	/	/	/	/
3	20103004	DHARUN.D	/	/	/	/	/
4	20103005	GOHULA KRISHNAN.K	/	/	/	/	/
5	20103006	GOKUL.M	/	AB	/	/	/
6	20103008	HUMAIRA.M	/	/	/	/	/
7	20103010	PRASANNA .S	/	/	/	/	AB
8	20103011	PRAVEEN.G	/	/	/	/	/
9	20103012	PRIYADHARSAN.T	/	/	/	/	/
10	20103013	RANJITH.P	/	/	/	/	/
11	20103014	RUBHINI.S	/	/	/	/	/
12	20103015	SARANKUMAR.S	/	/	/	/	/
13	20103016	SHARUMATHI.R	/	/	/	/	/
14	20103017	THENSWETHA.P.N	/	/	/	/	/
15	20103301	AAZIK RASUL. M	/	/	/	/	/
16	20103302	ARUNACHALAM N	/	/	/	/	/
17	20103305	KASTHURI P	/	/	/	/	AB
18	20103306	KEERTHIKA P	/	/	/	/	/
19	20103308	PRAVEEN A	/	/	/	/	/

20	20103309	RAJA T	/	/	/	/	/
21	20103310	SOUNDHARYA A	/	/	AB	/	/

Course Coordinators **HoD-Civil**

1. Mr.N.Moorthi — Moorthi.N
2. Dr.A.Vijayakumar - A. Vijayakumar.

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Civil Engineering

CERTIFICATE

This is to certify that

SHARUMATHI R

of Paavai Engineering College, studying in **Final year** has successfully completed the Value added Course 23CEVC801 –Crack Monitoring and Its Maintenance. The duration of the Course is 30hours (**25/03/2024 to 29/03/2024)** .

Course Incharge

HoD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Civil Engineering

CERTIFICATE

This is to certify that

SARANKUMAR S

of Paavai Engineering College, studying in **Final year** has successfully completed the Value added Course 23CEVC801 –Crack Monitoring and Its Maintenance. The duration of the Course is 30hours (**25/03/2024 to 29/03/2024)** .

Course Incharge

HoD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Civil Engineering

CERTIFICATE

This is to certify that

THENSWETHA P N

of Paavai Engineering College, studying in **Final year** has successfully completed the Value added Course 23CEVC801 –Crack Monitoring and Its Maintenance. The duration of the Course is 30hours (**25/03/2024 to 29/03/2024)** .

Course Incharge

HoD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Civil Engineering

CERTIFICATE

This is to certify that

AAZIK RASUL M

of Paavai Engineering College, studying in **Final year** has successfully completed the Value added Course 23CEVC801 –Crack Monitoring and Its Maintenance. The duration of the Course is 30hours (**25/03/2024 to 29/03/2024)** .

Course Incharge

HoD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Civil Engineering

CERTIFICATE

This is to certify that

KASTHURI P

of Paavai Engineering College, studying in **Final year** has successfully completed the Value added Course 23CEVC801 –Crack Monitoring and Its Maintenance. The duration of the Course is 30hours (**25/03/2024 to 29/03/2024)** .

Course Incharge | HoD | Principal

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)
NAMAKKAL
DEPARTMENT OF STRUCTURAL ENGINEERING

DATE: 14.03.2024

CIRCULAR

It is planned to conduct Value Added Course on **"23PSEVC201 – UNSATURATED SOIL MECHANICS"** for the students of First Year (Even Semester) in the AY 2023-2024 from 18.03.2024 to 22.03.2024. The interested students are asked to enroll their names to the course coordinator Mrs. S.Gayathri, AP/Civil on or before 16.03.2024.

Course Coordinator:

Mrs. S.Gayathri, AP/Civil

HOD/Civil

Copy to: Notice board.

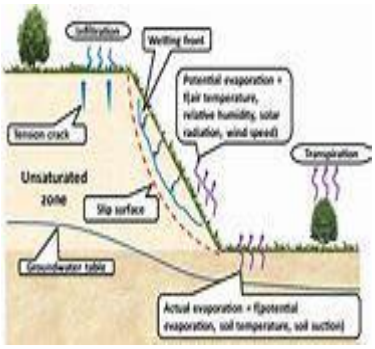
PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)

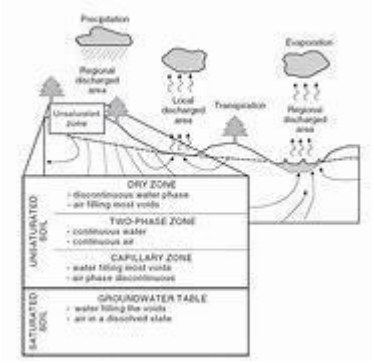
NAMAKKAL – 637 018

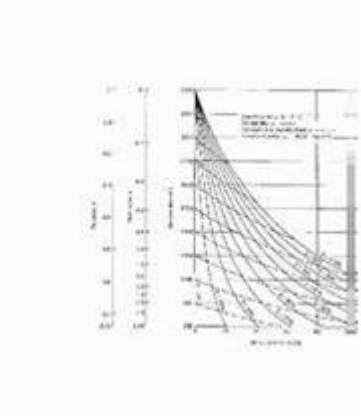
DEPARTMENT OF STRUCTURAL ENGINEERING

Value Added Course

23PSEVC201 - UNSATURATED SOIL MECHANICS







- Unsaturated Soil Mechanics will aid your understanding of the flow behaviours and concepts of unsaturated soils. By learning the principles and concepts of unsaturated soil mechanics, you will have the required knowledge needed to help prefer solutions to geotechnical problems involving unsaturated soils.
- This course also covers the topics such as Introduction to Unsaturated Soil Mechanics, State Variables and their Measurement, The Soil-Water Characteristic Curve, SWCC, Seepage through Unsaturated Soils, Shear Strength of Unsaturated Soils.

Date : 25.03.2024 to 29.03.2024

Venue : T122

Course Co-ordinator :

1. Mrs. S.Gayathri, AP/Civil

23PSEVC201 UNSATURATED SOIL MECHANICS 1 0 1 1

COURSE OBJECTIVE

To enable the students to

- gain knowledge on unsaturated soil mechanics properties
- understand the fundamental principles, mechanisms, and behaviour of partly saturated soils

MODULE I

Introduction; Application areas; Basic parameters-Basic parameters; Phase equilibrium-Concept of water retention; Soil water characteristics (SWCC); Hysteresis; Mechanisms Measurement of state variables -Measurement of state variables; Theoretical SWCC –Demonstration of software for fitting SWCC; Pedo-Transfer functions (PTF) -Hydraulic Conductivity; Measurement; Predictive models. Hydraulic Conductivity prediction; Capillary barriers; Software demonstration -Steady-state flow; Absence and influence of gravity -Analytical methods for transient flow; Shear strength-Shear strength; Swell and Collapse behavior

TOTAL PERIODS 30

COURSE OUTCOMES

Upon the completion of this course, the students will be able to

- apply behaviour of different clays and clay minerals for their application in engineering,
- manipulate the infiltration and drainage characteristics of unsaturated soils, diffusion characteristics of various clays.

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)

NAMAKKAL

DEPARTMENT OF STRUCTURAL ENGINEERING

Academic Year: 2023-24

VALUE ADDED COURSE

ATTENDANCE SHEET

Year/Semester : I / II

Name of the course : 23PSEVC201 - UNSATURATED SOIL MECHANICS

S:No	Register Number	Student Name	18/3/24	19/3/24	20/3/24	21/3/24	22/3/24
1	622123307001	GOPI	AB	/	AB	AB	/
2	622123307002	SUBASH CHNDRA BOSE A	/	/	/	/	/

Course Coordinator

HoD-Civil

1. MrS.S.Gayathri

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Structural Engineering

CERTIFICATE

This is to certify that

SUBASH CHANDRA BOSE A

of Paavai Engineering College, studying in **First year** has successfully completed the Value added Course 23PSEVC201 - Unsaturated Soil Mechanics. The duration of the Course is 30hours (**25/03/2024 to 29/03/2024)** .

Course Incharge | HoD | Principal

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

NAMAKKAL

DEPARTMENT OF STRUCTURAL ENGINEERING

DATE: 14.03.2024

CIRCULAR

It is planned to conduct Value Added Course on **"23PSEVC401 – CONNECTIONS IN STEEL STRUCTURES"** for the students of Second Year (Even Semester) in the AY 2023-2024 from 18.03.2024 to 22.03.2024. The interested students are asked to enroll their names to the course coordinator Mrs. B.Karthiga, AP/Civil on or before 16.03.2024.

Course Coordinator:

Mrs. B.Karthiga, AP/Civil

HOD/Civil

Copy to: Notice board.

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)

NAMAKKAL – 637 018
DEPARTMENT OF STRUCTURAL ENGINEERING

Value Added Course

23PSEVC401 - CONNECTIONS IN STEEL STRUCTURES

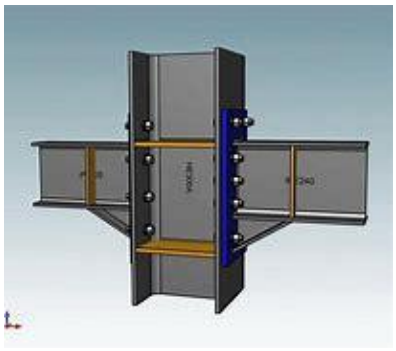
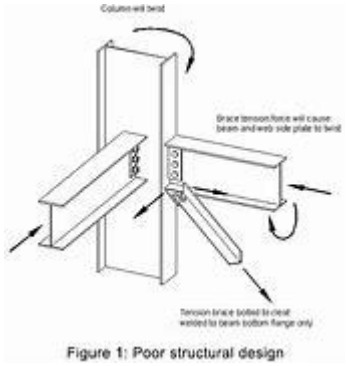



Figure 1: Poor structural design

- This course will cover fundamental concepts and applications of connections in the design of steel buildings and bridges with emphasis on simple shear and moment connections between steel beams and columns in frame systems.
- The course also discuss the topics such as design simple connections using standard AISC approaches, evaluation of eccentrically loaded bolt and weld groups using elastic and ultimate strength approaches and the concept of special provisions for moment and concentrated forces connections.

Date : 25.03.2024 to 29.03.2024

Venue : T225

Course Co-ordinator :

1. Mrs. B.Karthiga, AP/Civil

23PSEVC401 CONNECTIONS IN STEEL STRUCTURES 1 0 1 1

COURSE OBJECTIVE

To enable the students to

- Understand how to design steel connections for any combination of axial, shear, and moment loads is fundamental to effective building design.

MODULE I

Connection Design Review - Bolted Connections Review bolted connection basics including force transfer mechanisms, bolt shear and bearing, and slip critical connections. Connection Design Review – Welded Connections Review welded connection basics including types of welding, AISC360 provisions for fillet welds, and weld limit states. Eccentrically Loaded Bolts – Elastic Method - Introduce eccentrically loaded connections and detail the elastic design method for eccentrically loaded bolt groups. Eccentrically Loaded Bolts – Ultimate Strength Methods Introduce the ultimate strength method for eccentric design and contrast it to the elastic method. Develop design tools to calculate the strength of an eccentrically loaded bolted connection. Eccentrically Loaded Welds – Elastic Method

TOTAL PERIODS 30

COURSE OUTCOMES

Upon the completion of this course, the students will be able to

- apply the design concepts in realistic design scenarios.

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)

NAMAKKAL

DEPARTMENT OF STRUCTURAL ENGINEERING

Academic Year: 2023-24

VALUE ADDED COURSE

ATTENDANCE SHEET

Year/Semester : II / IV

Name of the course : 23PSEVC401 - CONNECTIONS IN STEEL STRUCTURES

S:No	Register Number	Student Name	18/3/24	19/3/24	20/3/24	21/3/24	22/3/24
1	622122307005	GOWTHAM R	/	/	/	/	AB
2	622122307006	KAMALI THARANI N	/	/	/	/	/
3	622122307007	KAVIYARASAN C	/	AB	/	/	/
4	622122307008	MANIKANDAN M	/	/	/	/	/
5	622122307009	MANOJ KUMAR S	/	/	/	AB	/
6	622122307010	PARTHIBAN P	/	/	/	/	/
7	622122307016	SUTHAKAR D	/	/	/	/	/

Course Coordinator

1. Mrs.B.Karthiga

HoD-Civil

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Structural Engineering

CERTIFICATE

This is to certify that

GOWTHAM R

of Paavai Engineering College, studying in **Second year** has successfully completed the Value added Course 23PSEVC401 - Connections in Steel Structures. The duration of the Course is 30hours (**25/03/2024 to 29/03/2024)** .

Course Incharge | HoD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Structural Engineering

CERTIFICATE

This is to certify that

KAMALI THARANI N

of Paavai Engineering College, studying in **Second year** has successfully completed the Value added Course 23PSEVC401 - Connections in Steel Structures. The duration of the Course is 30hours (**25/03/2024 to 29/03/2024)** .

Course Incharge | HoD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Structural Engineering

CERTIFICATE

This is to certify that

KAVIYARASAN C

of Paavai Engineering College, studying in **Second year** has successfully completed the Value added Course 23PSEVC401 - Connections in Steel Structures. The duration of the Course is 30hours (**25/03/2024 to 29/03/2024)** .

Course Incharge | HoD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Structural Engineering

CERTIFICATE

This is to certify that

MANOJ KUMAR S

of Paavai Engineering College, studying in **Second year** has successfully completed the Value added Course 23PSEVC401 - Connections in Steel Structures. The duration of the Course is 30hours (**25/03/2024 to 29/03/2024)** .

Course Incharge | HoD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Structural Engineering

CERTIFICATE

This is to certify that

SUTHAKAR D

of Paavai Engineering College, studying in **Second year** has successfully completed the Value added Course 23PSEVC401 - Connections in Steel Structures. The duration of the Course is 30hours (**25/03/2024 to 29/03/2024)** .

Course Incharge | HoD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH 44, PACHAL, NAMAKKAL-637018

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2023-2024

Date:05.09.2023

CIRCULAR

It is planned to conduct Five Days Value Added Course on **"23CSVC501 - AR VR and MR using Unity "** for Fifth semester students from 12.09.2023 to 16.09.2023. The interested students are asked to enroll their name to the course coordinator Mrs.K.Sudha Devi ASP/CSE on or before 09.09.2023.

Course Incharge: Mr E.Elanchezhiyan AP/CSE

COURSE COORDINATOR

HOD/CSE

Dr.D.BANUMATHY, M.E., Ph.D.,
Professor & Head
Department of Computer Science and Engineering
Paavai Engineering College (Autonomous)
NH-44, Pachal (PO), Namakkal-637 018.

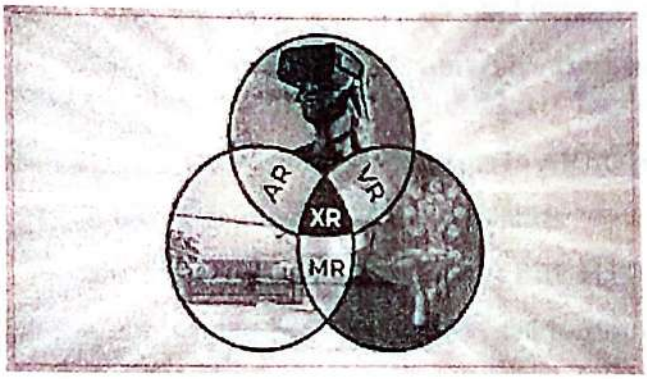
PAAVAI ENGINEERING COLLEGE

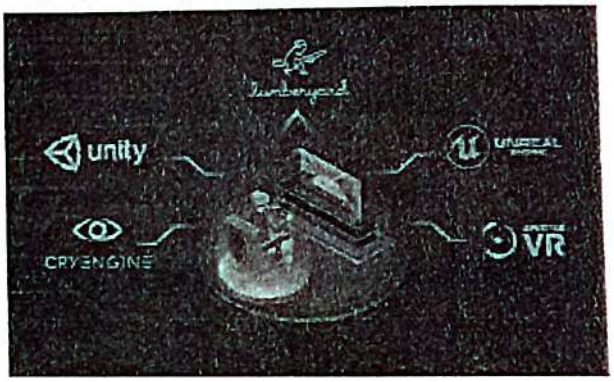
(Autonomous)
NH 44, PACHAL, NAMAKKAL-637018

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

23CSVC501 - AR VR AND MR USING UNITY

An API, or "Application Programming Interface", is a common concept in software development, found throughout VR and AR content development. In essence, it is a standardized interface that lets software connect with an operating system and make use of its resources. APIs are not visible to the user of a VR or AR experience.





AR can be offered to users via headsets like Microsoft's HoloLens, or through the video camera of a smartphone. VR provides tremendous potential to filmmakers and audiences, offering a new way to deliver stories, harnessing all the immersive potential of VR, and pulling on the power of presence. Mixed reality (MR) is a user environment in which physical reality and digital content are combined in a way that enables interaction with and among real-world and virtual objects.

INTENDED AUDIENCE:

- III Year B.E., B.TECH., - Students
- Students able to create static files and frameworks with the help of form and interfaces.

DATE: 12.09.2023 TO 16.09.2023

COURSE INCHARGE: Mr. E.ELANCHEZHIYAN, AP/CSE

23CSVC501 - AR VR AND MR USING UNITY

COURSE OBJECTIVES

To enable the students to:

- To understand the concepts and differences between AR, VR, and MR.
- To develop immersive applications using Unity.
- To implement interactions and user interfaces for immersive experiences.

Unit IIntroduction to Immersive Technologies

Overview of AR, VR, and MR concepts - History and evolution of immersive technologies - Understanding Unity's role in AR/VR/MR development - Setting up Unity for AR/VR/MR development - Unity interface overview and navigation - Introduction to Unity scripting with C#.

Unit II - Unity Basics for Immersive Development

Introduction to ARCore and ARKit - Implementing marker-based and markerless AR experiences - Adding interactive elements to AR scenes.

Unit III - Creating VR Environments

Overview of VR hardware (Oculus Rift, HTC Vive, etc.) - Creating VR environments and interactions - Implementing teleportation and locomotion in VR.

TOTAL PERIODS	**30**

COURSE OUTCOMES

At the end this course, students will be able to:

- Understand the concepts and differences between AR, VR, and MR.
- Develop immersive applications using Unity.
- Implement interactions and user interfaces for immersive experiences.

TEXT BOOKS

1.Programming 3D Applications with HTML5 and WebGL" by Tony Parisi: Kindle Education by D.D Graston 2023.

REFERENCES

1.The VR Book: Human-Centered Design for Virtual Reality" by Jason Jerald, 2021.

PAAVAI ENGINEERING COLLEGE
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NH 44, PACHAL, NAMAKKAL-637018

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2023-2024

VALUE ADDED COURSES

ATTENDANCE SHEET

Year /Semester: III/05

Name of the Course: 23CSVC501 & AR VR AND MR USING UNITY

S.NO.	REGISTER NO.	NAME OF THE STUDENT	12.09.2023	13.09.2023	14.09.2023	15.09.2023	16.09.2023
1	622121104001	R.Abinaya	/	/	/	/	/
2	622121104002	S.Aarthi	/	/	/	/	/
3	622121104003	R.Abinash	/	/	/	/	/
4	622121104004	S.Abishek	/	/	/	/	/
5	622121104005	J.Adhithan	/	/	/	/	/
6	622121104006	R.Akash	/	/	/	/	/
7	622121104007	S.Akash	/	/	/	/	/
8	622121104008	K.Arunprabu	a	/	/	/	/
9	622121104009	K.Asif Ahamed	/	/	/	/	/
10	622121104010	K.Asmitha	/	/	/	/	/
11	622121104011	S.V.Aswin Raaj	/	/	/	/	/
12	622121104012	T.Balaji	/	/	/	/	/
13	622121104013	R.Balakrishnan	/	/	/	/	/
14	622121104014	J.Bharathkrishnan	/	/	/	/	/
15	622121104015	B.Boomathi	/	/	/	a	/
16	622121104017	V.Chandramadhan	/	/	/	/	/
17	622121104018	R.Deepan	/	/	/	/	/
18	622121104019	S.Devadarshini	/	/	/	/	/
19	622121104020	S.Dhanalakshmi	/	/	/	/	/

S.NO.	REGISTER NO.	NAME OF THE STUDENT	12.09.2023	13.09.2023	14.09.2023	15.09.2023	16.09.2023
20	622121104021	A.Dhanush	/	/	/	/	/
21	622121104022	S.Dhivakar	/	/	/	/	/
22	622121104023	K.Dhivya Dharshan	/	/	/	/	/
23	622121104024	K.Dineshram	/	/	/	/	/
24	622121104025	S.Divya Sri	/	/	/	/	/
25	622121104026	A.Eshwaran	a	/	/	/	/
26	622121104027	V.Gobikrishna	/	/	/	/	/
27	622121104028	R.Gopinath	/	/	/	/	/
28	622121104029	U.Guna	/	/	a	/	/
29	622121104031	K.Gunal	/	/	/	/	/
30	622121104032	R.Gunapriyan	/	/	/	/	/
31	622121104033	J.S.Haridhar	/	/	/	/	/
32	622121104034	S.Hariharan	/	a	/	/	/
33	622121104036	B.Jagadeeswaran	/	/	/	/	/
34	622121104037	P.Jagadeshvaran	/	/	/	/	/
35	622121104038	S.Jayasaran	/	/	/	/	/
36	622121104040	J.Joyal Antony	/	/	/	/	/
37	622121104041	K.Kabilan	/	/	/	/	a
38	622121104042	M.Kamali	/	/	/	/	/
39	622121104043	S.Kamil	/	/	/	/	/
40	622121104044	S.Kavin Kamalesh	/	/	/	a	/
41	622121104045	T.Kaviya	/	/	/	/	/
42	622121104046	Kavya Moorthi	/	/	/	/	/
43	622121104047	G.Keerthivasan	/	/	/	/	/
44	622121104048	K.Kirubasankar	/	/	/	/	/
45	622121104049	K.Lakshmanan	/	/	/	/	/
46	622121104050	S.Lokesh	/	/	/	/	/
47	622121104051	J.Lokeshkumar	/	/	/	/	/

S.NO.	REGISTER NO.	NAME OF THE STUDENT	12.09.2023	13.09.2023	14.09.2023	15.09.2023	16.09.2023
48	622121104052	J.Lokeshwaran	✓	✓	✓	✓	✓
49	622121104053	T.Madheswaran	✓	✓	✓	✓	✓
50	622121104054	C.Mameeth	✓	✓	✓	✓	✓
51	622121104055	M.Manibarathi	a	✓	✓	✓	✓
52	622121104056	N.Manoj	✓	✓	✓	✓	✓
53	622121104057	R.S.Manoj	✓	✓	✓	✓	✓
54	622121104058	M.Manoj Kumar	✓	✓	✓	✓	✓
55	622121104059	R.C.Mithin	✓	✓	✓	✓	✓
56	622121104060	D.Mohanraj	✓	✓	✓	✓	✓
57	622121104061	P.Mohanraj	✓	✓	✓	✓	✓
58	622121104062	S.Mukesh Kumar	✓	✓	✓	✓	✓
59	622121104063	J.Najla Farveen	✓	✓	✓	✓	✓
60	622121104064	M.Namrootha	✓	✓	✓	✓	✓
61	622121104065	S.S.Narmada	✓	✓	✓	✓	✓
62	622121104304	Gunji Venu	✓	a	✓	✓	✓
63	622121104305	S.Karthik	✓	✓	✓	✓	✓
64	622121104306	P.Manidhar	✓	✓	✓	✓	✓
65	622121104310	Sourav Sarkar	✓	✓	✓	✓	✓
66	622121104309	M.Selvam	✓	✓	✓	✓	✓
67	622121104301	Bonasi Purushotham	✓	✓	✓	✓	✓
68	622121104066	P.Naveen Adhithya	✓	✓	✓	✓	✓
69	622121104067	J.Naveen	✓	✓	a	✓	✓
70	622121104069	R.Nisha	✓	✓	✓	✓	✓
71	622121104070	S.Nithesh	✓	✓	✓	✓	✓
72	622121104071	G.Nithish	✓	✓	✓	✓	a
73	622121104072	S.Pavithra	✓	✓	✓	✓	✓
74	622121104073	M.Pooja	✓	✓	✓	✓	✓

S.NO.	REGISTER NO.	NAME OF THE STUDENT	12.09.2023	13.09.2023	14.09.2023	15.09.2023	16.09.2023
75	622121104074	R.Poornima	✓	✓	✓	✓	✓
76	622121104075	S.Powthra	✓	✓	✓	✓	✓
77	622121104076	P.Pradeep	✓	✓	✓	✓	✓
78	622121104077	M.Pradeepkumar	a	✓	✓	✓	✓
79	622121104078	R.D.Pragathesh	✓	✓	✓	✓	✓
80	622121104079	M.Prasanna	✓	✓	✓	✓	✓
81	622121104080	V.Prasath	✓	✓	✓	✓	✓
82	622121104081	Praveen Sengottaiyan	✓	✓	✓	✓	✓
83	622121104082	B.Prem	✓	✓	✓	✓	✓
84	622121104083	P.G Priyadharshini	✓	✓	✓	✓	✓
85	622121104084	A.Ragavi	✓	✓	✓	✓	✓
86	622121104086	S.Rosini	✓	✓	✓	✓	✓
87	622121104087	G.Sakthivel	✓	✓	✓	✓	✓
88	622121104088	N.Sampath Kumar	✓	✓	✓	a	✓
89	622121104089	V.Sangeetha	✓	✓	✓	✓	✓
90	622121104090	S.Santhiya	✓	✓	✓	✓	✓
91	622121104091	S.Santhosh	✓	✓	✓	✓	✓
92	622121104092	S.Santhosh Kumar	✓	✓	✓	✓	✓
93	622121104093	G.Saran kumar	✓	✓	✓	✓	✓
94	622121104094	S.Saranraj	✓	✓	✓	✓	✓
95	622121104095	S.Saranraj	✓	✓	✓	✓	✓
96	622121104096	R.Saranya	✓	✓	✓	✓	✓
97	622121104097	S.Shree kumar	✓	✓	✓	✓	✓
98	622121104098	E.Shri Hari	✓	✓	✓	✓	✓
99	622121104099	A.Silambarasan	✓	✓	✓	✓	✓
100	622121104100	M.Siva	✓	✓	✓	✓	✓
101	622121104101	R.Sivachandiran	✓	✓	✓	✓	✓
102	622121104102	M.Siva Shanmugam	✓	✓	✓	✓	✓

S.NO.	REGISTER NO.	NAME OF THE STUDENT	12.09.2023	13.09.2023	14.09.2023	15.09.2023	16.09.2023
103	622121104103	S.Soniya	/	/	/	/	/
104	622121104104	V.Soundariya lakshmi	/	/	/	/	/
105	622121104105	K.Sree Aravind	/	/	/	/	/
106	622121104106	T.Sriram	/	/	/	/	/
107	622121104107	K.Stalin	/	a	/	/	/
108	622121104108	E.Suriyabhuvanesh	/	/	/	/	/
109	622121104109	M.Surya	/	/	/	/	/
110	622121104110	N.Tamilselvi	/	/	/	/	/
111	622121104111	I.Thamarai selvan	/	/	/	/	/
112	622121104112	K.Thamizharasan	/	/	/	/	/
113	622121104113	K.Thanujaa	/	/	/	/	/
114	622121104114	Thotta Manoj Kumar	/	/	/	/	a
115	622121104115	Thupakula Ganesh	/	/	/	/	/
116	622121104116	S.Trisha	/	/	/	/	/
117	622121104117	E.Udhayarasu	/	/	/	/	/
118	622121104118	M.Varshini	/	/	/	/	/
119	622121104119	N.Vasanth	a	/	/	/	/
120	622121104120	R.Vasanthavelan	/	/	/	/	/
121	622121104121	M.Vijay Anand	/	/	/	/	/
122	622121104122	M.Vimal	/	/	/	/	/
123	622121104123	N.Vinoth	/	/	/	/	/
124	622121104124	V.Vinothkumar	/	a	/	/	/
125	622121104125	S.Vishal	/	/	/	/	/
126	622121104126	D.Vishnu Selvan	/	/	/	/	/
127	622121104127	H.Yashmeen Mushra	/	/	/	/	/
128	622121104308	S.Pradeepa	/	/	/	/	/
129	622121104701	K.Rohith	/	/	/	/	/
130	622121104311	G.Tamizhanban	/	/	/	/	/

S.NO.	REGISTER NO.	NAME OF THE STUDENT	12.09.2023	13.09.2023	14.09.2023	15.09.2023	16.09.2023
131	622121104307	A.Nantha Kumar	/	/	/	/	/
132	622121104303	Gorla Vamshidhar Reddy	/	/	a	/	/
133	622121104302	Dabbara Ganesh	/	/	/	/	/

COURSE COORDINATOR

HOD/CSE

Dr. D.BANUMATHY, M.E., Ph.D.
Professor & Head
Department of Computer Science and Engineering
Paavai Engineering College (Autonomous)
NH-44, Pachal (PO), Namakkal-637 018

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering

CERTIFICATE

This is to certify that

PAVITHRA S

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course "AR VR AND MR USING UNITY". The duration of the course is 30 hours

(12/09/2023 to 16/09/2023)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering

CERTIFICATE

This is to certify that

BOOMATHI B

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course "AR VR AND MR USING UNITY". The duration of the course is 30 hours

(12/09/2023 to 16/09/2023)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering

CERTIFICATE

This is to certify that

HARIHARAN S

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course "AR VR AND MR USING UNITY". The duration of the course is 30 hours

(12/09/2023 to 16/09/2023)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering

CERTIFICATE

This is to certify that

MITHIN R S

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course "AR VR AND MR USING UNITY". The duration of the course is 30 hours

(12/09/2023 to 16/09/2023)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH 44, PACHAL, NAMAKKAL-637018

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2023-2024

Date:05.09.2023

CIRCULAR

It is planned to conduct Five Days Value Added Course on **"23CSVC701 - Full Stack Development "** for Seventh semester students from 12.09.2023 to 16.09.2023. The interested students are asked to enroll their name to the course coordinator Mrs.K.Sudha Devi ASP/CSE on or before 09.09.2023.

Course Incharge: Mrs K.Sudha Devi ASP/CSE

COURSE COORDINATOR

HOD/CSE

Dr. D.BANUMATHY, M.E., Ph.D
Professor & Head
Department of Computer Science and Engineering
Paavai Engineering College (Autonomous)
Pachal (PO), Namakkal-637 018

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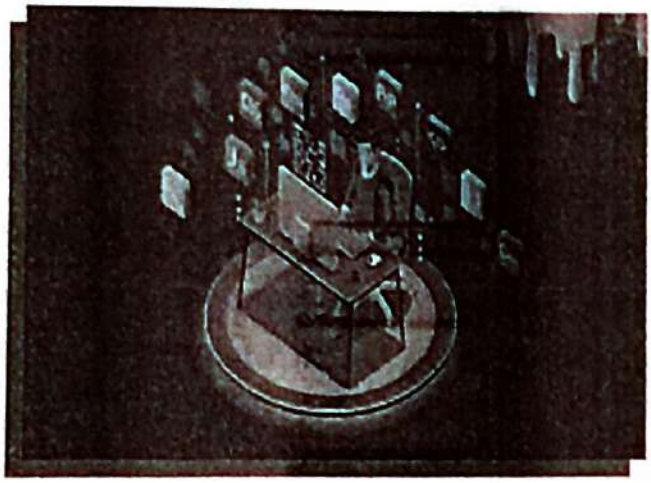
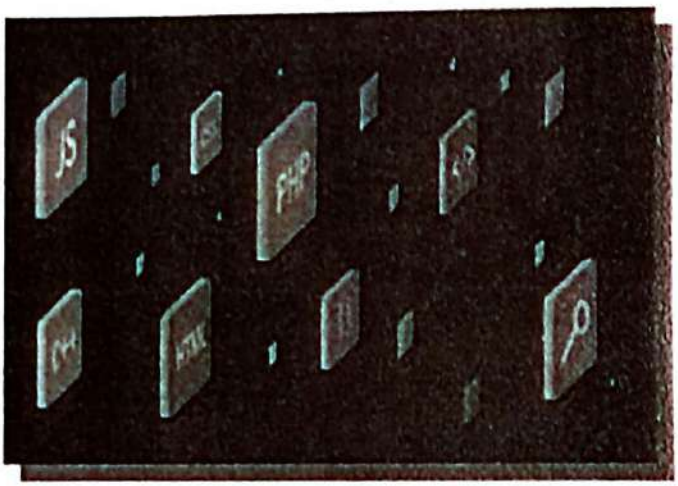
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

23CSVC701 – FULL STACK DEVELOPMENT

Full stack development is the process of designing, creating, testing, and deploying a complete web application from start to finish. It involves working with various technologies and tools, including front-end web development, back-end web development, and database development.





The most obvious benefit is that it allows developers to understand the entire web development process thoroughly, and this comprehensive understanding can lead to more efficient and effective development. ull-stack developers can more easily identify potential bottlenecks and issues by thoroughly understanding the front-end and back-end development process.

INTENDED AUDIENCE:

- IV Year B.E., B.TECH., - Students
- Students able to implement data sources and databases, modelling and visualization, power Bi queries,

DATE: 12.09.2023 TO 16.09.2023

COURSE INCHARGE: Mrs.K.SUDHA ADEVI, ASP/CSE

23CSVC701 - FULL STACK DEVELOPMENT	
COURSE OBJECTIVES	

To enable the students to:

- Understand the architecture and components of full-stack web applications.
- Develop dynamic and interactive front-end interfaces using HTML, CSS, and JavaScript.
- Integrate databases and manage data within web applications.

Unit I Introduction to Full Stack Development

Overview of full-stack development architecture - Introduction to front-end and back-end technologies - Setting up development environment (e.g., Node.js, npm, Git).

Unit II Interfaces

Introduction to front-end frameworks (e.g., React, Angular, Vue) - Introduction to server-side programming languages (e.g., JavaScript/Node.js, Python, Ruby) - Setting up back-end servers and routing - Handling HTTP requests and responses.

Unit III Data Management

Designing and implementing RESTful APIs - Authentication and authorization techniques (e.g., JWT, OAuth) - Securing APIs and preventing common security vulnerabilities.

TOTAL PERIODS	**30**

COURSE OUTCOMES

At the end this course, students will be able to :

- Understand the iOS app development ecosystem, including the role of Xcode and the App Store.
- Develop iOS applications using UIView.
- Implement user interfaces and navigation.

TEXT BOOKS

1.Full Stack Web Development For Beginners: Learn Ecommerce Web Development Using HTML5, CSS3, Bootstrap, JavaScript, MySQL, and PHPBy Riaz Ahmed.

REFERENCES

1.Full Stack Web DevelopmentThe Comprehensive Guidewritten by Philip Ackermann , 07 January 2021.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2023-2024

VALUE ADDED COURSES

ATTENDANCE SHEET

Year /Semester: IV/07

Name of the Course: 23CSVC701 & FULL STACK DEVELOPMENT

S.NO.	REGISTER NO.	NAME OF THE STUDENT	12.09.2023	13.09.2023	14.09.2023	15.09.2023	16.09.2023
1	20104002	AJAY.S	/	/	/	/	/
2	20104003	ARAVINTHRAJ.N.S	/	/	/	/	/
3	20104004	ARULSELVAR.S	/	/	/	/	/
4	20104005	ARUNKUMAR.A	/	a	/	/	/
5	20104006	ARUNPANDIYAN. M	/	/	/	/	/
6	20104007	ASMA BEGAM.M	/	/	/	/	/
7	20104008	ASNY RAJELIN.D	/	/	/	/	/
8	20104009	ATCHAYA.B	/	/	/	/	/
9	20104010	ATTHISH.P	a	/	/	/	/
10	20104011	AVINASH.K	/	/	/	/	/
11	20104013	CHENNAREDDY ESWAR CHANDRA SAI	/	/	/	a	/
12	20104014	DAVID PRAKASH.M	/	/	/	/	/
13	20104015	DEEPASREE.M	/	/	/	/	/
14	20104016	DHANABALAN.K	/	/	/	/	/
15	20104017	DHARANIDHARAN.N	/	/	/	/	/
16	20104018	DHARSHINI.G	/	/	/	/	a
17	20104019	DHARSHINI.S	/	/	/	/	/
18	20104020	DHINAKARAN.S	/	/	/	/	/
19	20104021	DILIP.T.U	/	/	/	/	/

S.NO.	REGISTER NO.	NAME OF THE STUDENT	12.09.2023	13.09.2023	14.09.2023	15.09.2023	16.09.2023
20	20104022	DINESHBABU.S	/	/	/	/	/
21	20104023	DUDDU RADHA KRISHNA	a	/	/	/	/
22	20104024	GOKUL PRASANTH.G	/	/	/	/	a
23	20104025	GOKUL PRASATH.M	/	/	/	/	/
24	20104026	GOWTHAM.D	/	/	/	/	/
25	20104027	GUNA.T	/	/	/	/	/
26	20104028	HARI PRASATH.G	/	/	/	a	/
27	20104029	HARIHARAN.K	/	/	/	/	/
28	20104030	JAGADEESH.M	/	/	/	/	/
29	20104031	JAI SURIYA.S	/	/	/	/	/
30	20104032	JASWANTHRAJ.G	/	/	/	/	/
31	20104033	JEEVA.S	/	/	/	/	/
32	20104034	JEEVA.V	/	/	a	/	/
33	20104035	JEEVANKUMAR.S	/	/	/	/	/
34	20104036	JERUSHA.A.S	/	/	/	/	/
35	20104037	JEYAPANDI.M	/	/	/	/	/
36	20104038	KANNAN.P	/	/	/	/	/
37	20104039	KARTHICK.R	a	/	/	/	/
38	20104040	KARTHIK.P	/	/	/	/	/
39	20104041	KAVIN.M	/	/	/	/	/
40	20104042	KAVINKUMAR.S	/	/	/	/	/
41	20104043	KAVINRAJA.S	/	/	/	/	/
42	20104044	KEERTHANA.V	/	/	/	/	/
43	20104045	KEERTHIVASAN.V	/	/	/	/	a
44	20104046	KESAVAN.L	/	/	/	/	/
45	20104047	KESHAVARAJSHARMAA. R	/	/	/	/	/
46	20104048	KIRUBAKARAN.E	/	a	/	/	/
47	20104049	KIRUBHA.M	/	/	/	/	/

S.NO.	REGISTER NO.	NAME OF THE STUDENT	12.09.2023	13.09.2023	14.09.2023	15.09.2023	16.09.2023
48	20104050	KISHORE KUMAR. AL	/	/	/	/	/
49	20104051	KISHORE NITHIN.N	a	/	/	/	/
50	20104052	KRISHNAKUMAR.G	/	/	/	/	/
51	20104053	LALITHKUMAR.V	/	/	/	/	/
52	20104054	MADESH.R	/	/	/	/	/
53	20104055	MAHANANTHAM.N	/	/	a	/	/
54	20104056	MAIBALAN.K	/	/	/	/	/
55	20104057	MANOJPRABHAKAR.P	/	/	/	/	/
56	20104058	MATHAKALA MANEESHA	/	/	/	/	/
57	20104059	MEKALA.M	/	/	/	/	a
58	20104060	MITHRAN.I.R	/	/	/	/	/
59	20104061	MOHANA PRIYA.V	/	/	/	/	/
60	20104062	MUGUNDHAN.R	/	a	/	/	/
61	20104063	NANDHINI.A	/	/	/	/	/
62	20104064	NANDHINI.A	/	/	/	/	/
63	20104065	NANDHINI.S	/	/	/	/	/
64	20104066	NARAYANASAMY.V.M	/	/	/	/	/
65	20104067	NATHISH KUMAR.M	/	/	/	/	/
66	20104068	NAVEEN VIJAY.T	/	/	/	a	/
67	20104069	NAVIN KRISHNA.S.R	/	/	/	/	/
68	20104070	NITHISH KUMAR.N	/	/	/	/	/
69	20104071	NITHYASRI.M	/	/	/	/	/
70	20104072	PAMIDI PRAHARSHA	/	/	/	a	/
71	20104073	PRADEEPKUMAR.A	/	/	/	/	/
72	20104074	PREETHI.S	/	/	/	/	/
73	20104075	PRIYANKA.S	/	/	/	/	/
74	20104076	PUGAZHENTHI.K	/	/	/	/	/
75	20104077	RATHIS.M	/	/	/	/	a

S.NO.	REGISTER NO.	NAME OF THE STUDENT	12.09.2023	13.09.2023	14.09.2023	15.09.2023	16.09.2023
76	20104078	ROSHINI.V	/	/	/	/	/
77	20104079	RUTHRA. M	/	/	/	/	/
78	20104080	SABARINATHAN.C	/	/	/	/	/
79	20104081	SAKTHI SRIDHAR.S.B	/	/	/	/	/
80	20104082	SAMIDURAI.D	/	/	/	/	/
81	20104083	SANJAY BABU.M	a	/	/	/	/
82	20104084	SANJAYPRASANTH. T.M	/	/	/	/	/
83	20104085	SANTHOSH.S	/	/	/	/	/
84	20104086	SANTHOSHKUMAR.C	/	/	/	/	/
85	20104087	SARAN.V	/	/	a	/	/
86	20104088	SARANYA.S	/	/	/	/	/
87	20104089	SASIREKHA.R	/	/	/	/	/
88	20104090	SETHUPATHI.C	/	/	/	/	/
89	20104091	SHARAVANAN.A.K	/	/	/	/	/
90	20104092	SIMI LAUREN.J	/	a	/	/	/
91	20104093	SOUNDHARAJAN.S	/	/	/	/	/
92	20104094	SOWMYA.K	/	/	/	/	/
93	20104095	SRIKANTH.J	/	/	/	/	/
94	20104096	SRIKANTH.K	/	/	/	/	/
95	20104097	SRIKANTH.S	a	/	/	/	/
96	20104098	SUBA.R	/	/	/	a	/
97	20104099	SUBHIKSHA.G.B	/	/	/	/	/
98	20104100	SUJITH.D	/	/	/	/	/
99	20104101	SURESH.E	/	/	/	/	/
100	20104102	SURIYA. A	/	/	/	/	/
101	20104103	SURYA. R	/	/	/	/	/
102	20104104	SWITHA.R	/	/	/	/	a
103	20104105	UMMADIPOLU LAKSHMI LAHARI	/	/	/	/	/

S.NO.	REGISTER NO.	NAME OF THE STUDENT	12.09.2023	13.09.2023	14.09.2023	15.09.2023	16.09.2023
104	20104106	VAGRASRI S	✓	✓	✓	✓	✓
105	20104107	VARSHINI .S	a	✓	✓	✓	✓
106	20104108	VASANTHAN.B	✓	✓	✓	✓	a
107	20104111	VETRISELVAN.V	✓	a	✓	✓	✓
108	20104112	VIGNESHWARAN.K	✓	✓	✓	✓	✓
109	20104113	VIMALRAJ.S	✓	✓	✓	✓	✓
110	20104114	VISHWA TEJA.S	✓	✓	a	✓	✓
111	20104115	YOGASUNDARAM.K	✓	✓	✓	✓	✓
112	20104116	YUKESHKUMAR.A	✓	✓	✓	✓	✓
113	20104301	BALAJI.T	✓	✓	✓	✓	✓
114	20104303	ELAVARASI.K	✓	✓	✓	✓	✓
115	20104304	GOKUL KANNAN.S	✓	✓	✓	a	✓
116	20104305	MONISH KUMAR.R	✓	✓	✓	✓	✓
117	20104308	VIGNESH.G	✓	✓	✓	✓	✓
118	20104501	VENKATESH .C	a	✓	✓	✓	✓

COURSE COORDINATOR

HOD/CSE

Dr.D.BANUMATHY, M.E., Ph.D
Professor & Head
Department of Computer Science and Engineering
Paavai Engineering College (Autonomous)
NH-44, Pachal (PO), Namakkal-637 018

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering

CERTIFICATE

This is to certify that

VAGRASRI S

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course "FULL STACK DEVELOPMENT". The duration of the course is 30 hours

(12/09/2023 to 16/09/2023)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering

CERTIFICATE

This is to certify that

GUNA T

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course "FULL STACK DEVELOPMENT". The duration of the course is 30 hours

(12/09/2023 to 16/09/2023)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering

CERTIFICATE

This is to certify that

KANNAN P

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course "FULL STACK DEVELOPMENT". The duration of the course is 30 hours

(12/09/2023 to 16/09/2023)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering

CERTIFICATE

This is to certify that

MAIBALAN K

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course "FULL STACK DEVELOPMENT". The duration of the course is 30 hours

(12/09/2023 to 16/09/2023)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering

CERTIFICATE

This is to certify that

ROSHINI V

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course "FULL STACK DEVELOPMENT". The duration of the course is 30 hours

(12/09/2023 to 16/09/2023)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH 44, PACHAL, NAMAKKAL-637018

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2023-2024

Date:11.03.2024

CIRCULAR

It is planned to conduct Five Days Value Added Course on **"23CSVC401 - Data Analytics With R"** for Sixth semester students from 18.03.2024 to 22.03.2024. The interested students are asked to enroll their name to the course coordinator Mrs.K.Sudha Devi ASP/CSE on or before 15.03.2024.

Course Incharge: Mr M.Sivaganesh, ASP/CSE

COURSE COORDINATOR

HOD/CSE

Dr.D.BANUMATHY, M.E., Ph.D.,
Professor & Head
Department of Computer Science and Engineering
Paavai Engineering College (Autonomous)
NH-44, Pachal (PO), Namakkal-637 018.

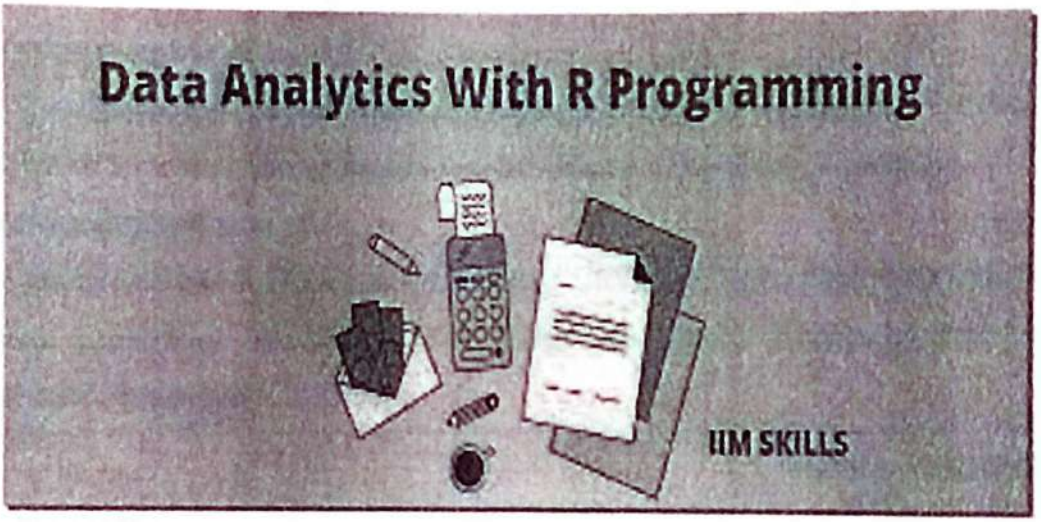
PAAVAI ENGINEERING COLLEGE

(Autonomous)
NH 44, PACHAL, NAMAKKAL-637018

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

23CSVC401 - DATA ANALYTICS WITH R

R analytics (or R programming language) is a free, open-source software used for all kinds of data science, statistics, and visualization projects. R programming language is powerful, versatile, AND able to be integrated into BI platforms like Sisense, to help you get the most out of business-critical data.



R, and its sister language Python, are powerful tools to help you maximize your data reporting. Instead of using programming languages through a separate development tool like R Studio or Jupyter Notebooks, allowing you to predict critical business outcomes, create interactive dashboards using practical statistics, and easily build statistical models. Integrating R and Python means advanced analytics can happen faster, with accurate and up-to-date data.

INTENDED AUDIENCE:

- II Year B.E., B.TECH., - Students
- Students able to create static files and frameworks with the help of form and interfaces.

DATE: 18.03.2024 TO 22.03.2024

COURSE INCHARGE: Mr. M.SIVAGANESH, ASP/CSE

23CSVC401	DATA ANALYTICS WITH R

COURSE OBJECTIVES

To enable the students to:

- To Understand concepts of data analytics.
- To learn about R Programming basics.
- To learn aboutdata visualization using R.

Unit I Introduction to Data Analytics

Overview of Data Analytics, Need of Data Analytics, Nature of Data, Classification of Data: Structured, Semi-Structured, Unstructured, Characteristics of Data, Applications of Data Analytics..

Unit II R Programming basics

Overview of R programming, Environment setup with R Studio, R Commands, Variables and Data Types, Control Structures, Array, Matrix, Vectors, Factors, Functions, R packages.

Unit III Data visualization using R

Reading and getting data into R (External Data): Using CSV files, XML files, Web Data, JSON files, Databases, Excel files. Working with R Charts and Graphs: Histograms,Boxplots,Bar Charts, Line Graphs, Scatterplots, Pie Charts

	TOTAL PERIODS	**30**

COURSE OUTCOME:

At the end this course, students will be able to :

- Understand concepts of data analytics
- Learnt about R Programming basics
- Know how to implement data visualization using R

TEXT BOOKS

1. An Introduction to R, Notes on R: A Programming Environment for Data Analysis and Graphics. W. N. Venables, D.M. Smith and the R Development Core Team. Version 3.0.1 (2013-05-16). URL: https://cran.r-project.org/doc/manuals/r-release/R-intro.pdf

REFERENCES

1. Data Analysis Using R : A Primer for Data Scientist Paperback – 20 September 2021 by Dr. DhavalMaheta.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2023-2024

VALUE ADDED COURSES

ATTENDANCE SHEET

Year /Semester: II/04

Name of the Course: 23CSVC401 & DATA ANALYTICS WITH R

S.No	REGISTER NO.	NAME OF THE STUDENT	18.03.2024	19.03.2024	20.03.2024	21.03.2024	22.03.2024
1	622122104001	ABIRAMI K V	/	/	/	/	/
2	622122104002	ADHITHYA S	/	/	/	/	/
3	622122104003	AGASH K	/	/	/	/	/
4	622122104004	AJAY S	/	/	/	/	/
5	622122104005	AKASH M	/	/	/	/	/
6	622122104006	AKASH V	/	/	/	/	/
7	622122104007	AKILAN V	/	/	/	/	/
8	622122104008	ALFIN K BINOY	/	/	/	/	/
9	622122104009	ANAND R	/	/	/	/	/
10	622122104010	ANANDH M	/	/	/	/	/
11	622122104011	ANBARASAN V	/	/	/	/	/
12	622122104013	ANISHKUMAR R	/	/	/	/	/
13	622122104014	ANITHA S	/	/	/	/	/
14	622122104016	ARITHIRAN R G	/	/	/	/	/
15	622122104017	ARUL RAJ V	/	/	/	/	/
16	622122104018	ARUNA M	/	/	/	/	/
17	622122104019	ARUNKUMAR A	/	/	/	/	/
18	622122104020	ARUNKUMAR C	/	/	/	/	/
19	622122104022	ASWIN KUMAR S	/	/	/	/	/
20	622122104023	BALAMURUGAN M	/	/	/	/	/
21	622122104024	BANTEILANG LYNGKHOI	/	/	/	/	/
22	622122104025	BARATH ESWARAN S	/	/	/	/	/
23	622122104026	BASKAR S	/	/	/	/	/
24	622122104027	BENSHO SULFICK SINGH J D	/	/	/	/	/
25	622122104029	DELPHINAA F	/	/	/	/	/
26	622122104030	DEVIPRIYA T	/	/	/	/	/
27	622122104031	DHANALAKSHMI V	/	/	/	/	/
28	622122104032	DHANUSHYA V	/	/	/	/	/
29	622122104033	DHATCHINAMOORTHY S	/	/	/	/	/
30	622122104034	DHIKSHANTH K	/	/	/	/	/
31	622122104035	DHIVYASHREE P	/	/	/	/	/
32	622122104036	DHIVYASRI R	/	/	/	/	/

S.No	REGISTER NO.	NAME OF THE STUDENT	18.03.2024	19.03.2024	20.03.2024	21.03.2024	22.03.2024
33	622122104037	DINESH M	/	/	/	/	/
34	622122104038	DINESHKUMAR S	/	/	/	/	/
35	622122104039	EBIN ANDREWS K	/	/	/	/	/
36	622122104040	EZHILVADHANI T	/	/	/	/	/
37	622122104041	GEETHA D	/	/	/	/	/
38	622122104042	GOBINISHA R	/	/	/	/	/
39	622122104043	GOKUL A	/	/	/	/	/
40	622122104044	GOKUL M	/	/	a	/	/
41	622122104045	GOKUL S	/	/	/	/	/
42	622122104046	GOKULAPRIYA R	/	/	/	/	/
43	622122104047	GOPIKA S	/	/	/	/	/
44	622122104048	GUNA S	/	/	/	/	/
45	622122104049	HARIDHARAN D	/	/	/	/	/
46	622122104050	HARIHARAN S	/	/	/	/	/
47	622122104051	HARINI G	/	/	/	/	/
48	622122104052	HARINISRI B	/	/	/	/	/
49	622122104053	HARIRAMAN P	/	/	/	/	/
50	622122104054	INDHUJA P	/	/	/	/	/
51	622122104055	INDIRA M	a	/	/	/	/
52	622122104056	JAGADEEP VISHNU T	/	/	/	/	/
53	622122104057	JAGAN N	/	/	/	/	/
54	622122104058	JENITH ANISHA S	/	/	/	/	/
55	622122104059	JEREMIAH RENSWICK J	/	/	/	/	/
56	622122104060	JERLIN JENOVA R	/	/	/	/	/
57	622122104061	JESINTHA V	/	/	/	a	/
58	622122104062	JESWANTH K	/	/	/	/	/
59	622122104063	JOTHISRI S	/	/	/	/	/
60	622122104064	KAANCHINATH.N	/	/	/	/	/
61	622122104065	KAAVIYAN.V	/	/	/	/	/
62	622122104066	KALAISELVAN.B	/	/	/	/	/
63	622122104067	KANISHIYA.L	/	/	/	/	/
64	622122104068	KANISHKA SHREE.T	/	/	/	/	/
65	622122104069	KARTHIGA.P	/	a	/	/	/
66	622122104070	KARTHIK.M	/	/	/	/	/
67	622122104071	KATHIRVEL.K	/	/	/	/	/
68	622122104072	KAVINKUMAR.S	/	/	/	/	/
69	622122104073	KAVIYA SHREE.M	/	/	/	/	/
70	622122104074	KAVIYA.G	/	/	/	/	/
71	622122104075	KAVIYA.V	/	/	/	/	/
72	622122104076	KAVIYARASAN.M	/	/	/	/	/
73	622122104077	KAVIYARASU.R	/	/	/	/	a
74	622122104078	KEERTHIKA.S	/	/	/	/	/

S.No	REGISTER NO.	NAME OF THE STUDENT	18.03.2024	19.03.2024	20.03.2024	21.03.2024	22.03.2024
75	622122104079	KIRAN.R	/	/	/	/	/
76	622122104080	KRISHNARAJ.C	/	/	/	/	/
77	622122104081	LINGESWARAN.M	/	/	/	/	/
78	622122104082	LOKESH.S	/	/	/	/	/
79	622122104083	MAANISHA.S	a	/	/	/	/
80	622122104084	MADHESH.S	/	/	/	/	/
81	622122104085	MAGALAKSHMI.M	/	/	/	/	/
82	622122104086	MALINI.S	/	/	/	/	/
83	622122104087	MANJULADEVI.P	/	/	/	/	/
84	622122104088	MANOJ KUMAR.A	/	/	/	/	/
85	622122104089	MANOJ KUMAR.M.M	/	/	/	/	/
86	622122104090	MARUTHU.E	/	/	/	/	/
87	622122104091	MARZOOK.K	/	/	/	/	/
88	622122104092	MATHI.M	/	/	/	/	/
89	622122104093	MEGHASURYA.B	/	a	/	/	/
90	622122104094	MOHAMMED RIYAS.N	/	/	/	/	/
91	622122104095	MONIKA.S.T	/	/	/	/	/
92	622122104096	MURUGESAN.R	/	/	/	/	/
93	622122104097	MYTHILI.N	/	/	/	/	/
94	622122104098	NAINTHIGA.T	/	/	/	/	/
95	622122104099	NANDHAAKASH.M	/	/	/	/	/
96	622122104100	NANDHINI DEVI ESTHER.T	/	/	/	/	/
97	622122104101	NANDHINI PRIYA.P	/	/	/	/	/
98	622122104102	NAVARUTHRAN.R.A	/	/	/	/	/
99	622122104103	NAVEEN.S	/	/	/	/	/
100	622122104104	NAVEENA.P	/	/	/	/	/
101	622122104105	NAVEENKUMAR.T	/	/	/	a	/
102	622122104106	NAVEETHA.P	/	/	/	/	/
103	622122104107	NILESH.S	/	/	/	/	/
104	622122104108	NIRANJAN.S	/	/	/	/	/
105	622122104109	NITHISH KUMAR.P	/	/	/	/	/
106	622122104110	NITHISH.S	/	/	/	/	/
107	622122104111	PAARTHIV.U	/	/	/	/	/
108	622122104112	PADMA SREE.B	/	/	/	/	/
109	622122104113	PAVITHIRAN.J	/	/	/	/	a
110	622122104114	PAVITHRA.K	/	/	/	/	/
111	622122104117	PRAVIN.V	/	/	/	/	/
112	622122104118	PREETHI.R	/	/	/	/	/
113	622122104119	PRIYADHARSHINI.E	/	/	/	/	/
114	622122104120	PRIYADHARSHINI.P	/	/	/	/	/
115	622122104121	PRIYADHARSINI.M	/	/	/	/	/
116	622122104122	RAGINISAMUTHA.G	/	/	/	/	/

S.No	REGISTER NO.	NAME OF THE STUDENT	18.03.2024	19.03.2024	20.03.2024	21.03.2024	22.03.2024
117	622122104125	RAMU.P	/	/	/	/	/
118	622122104126	RANJITHKUMAR.G	/	/	/	/	/
119	622122104127	RAYYAN BAKKER.M.A	/	/	/	/	/
120	622122104128	RISHIKA.K	/	/	/	/	/
121	622122104129	ROSHIKA.V	/	/	/	/	/
122	622122104130	SABARINATHAN.V	/	/	/	/	/
123	622122104131	SABARISHBALA.B	/	/	/	/	/
124	622122104132	SAKTHI MAHESWARI.S	/	/	/	/	/
125	622122104133	SAMUEL STEPHEN RAJ.B.H	a	/	/	/	/
126	622122104134	SANJAI.R	/	/	/	/	/
127	622122104135	SANJAI.S	/	/	/	/	/
128	622122104136	SANJAY.G	/	/	/	/	/
129	622122104137	SANJAY.K.C	/	/	/	/	/
130	622122104138	SANJAY. S	/	/	/	/	/
131	622122104139	SENTHAMIZH SELVAN.T	/	/	/	/	/
132	622122104140	SHAJITH.M	/	/	/	/	/
133	622122104141	SHALINI.S	/	/	/	/	/
134	622122104142	SHAMITHA.M	/	/	/	/	/
135	622122104143	SINDHUJA.M	/	/	/	/	/
136	622122104144	SIVARANJANI.D	/	/	/	/	/
137	622122104145	SONADHARSHINI.S.K	/	/	/	/	/
138	622122104146	SOWMIYA.V	/	/	/	/	/
139	622122104147	SREEMATHI.G	/	/	/	/	/
140	622122104148	SRI BALA.R	/	/	/	/	/
141	622122104149	SRI HARINI.G	/	/	/	/	/
142	622122104150	SRI VARSHINI.V.M	/	/	/	/	/
143	622122104151	SRINATH.S	/	/	/	/	/
144	622122104152	SRIRAM.R	/	/	/	/	/
145	622122104153	SRIRAM.R	/	/	/	/	/
146	622122104154	STANLY SEBASTEN.T	/	/	/	/	/
147	622122104155	SUJITHA.G	/	/	/	/	/
148	622122104156	SURENDHAR.C	/	/	/	/	/
149	622122104158	SUWATHINI SREE.G	/	/	/	/	/
150	622122104159	SWATHI.S	/	/	/	/	/
151	622122104160	SWETHA.R	/	/	/	/	/
152	622122104161	TAMILAN.P	/	/	/	/	/
153	622122104162	TAMIZHKUMARAN.D	/	/	/	/	/
154	622122104163	THARANIRAJAN.P	/	/	/	/	/
155	622122104164	THAYANITHIMARAN.V	/	/	/	/	/
156	622122104165	THILAGAN.S	/	/	/	/	/
157	622122104166	THILOTH.S	/	/	/	/	/
158	622122104167	THIRUMURUGAN.V	/	/	/	/	/

S.No	REGISTER NO.	NAME OF THE STUDENT	18.03.2024	19.03.2024	20.03.2024	21.03.2024	22.03.2024
159	622122104169	UDHAYAKUMAR.S	/	/	/	/	/
160	622122104170	VASANTH.S	/	/	/	/	/
161	622122104171	VELUSAMY.T	/	/	/	/	/
162	622122104172	VENKATESAN.R	/	/	/	/	/
163	622122104174	VIMAL KRISHNAN.S	/	/	/	/	/
164	622122104175	VINOTH.M	/	/	/	/	/
165	622122104176	VISHNU PRASAD.R	/	/	/	/	/
166	622122104177	VISHNU.A	/	a	/	/	/
167	622122104178	VISHNU.K	/	/	/	/	/
168	622122104179	VISHNUCHANDAR.S.S	/	/	/	/	/
169	622122104180	YAZHINI.S	/	/	/	/	/
170	622122104301	HARINI.M	/	/	/	/	/
171	622122104302	MUMMUDIARASAN.C	/	/	/	/	/
172	622122104303	PRADEEP.R	/	/	/	/	/
173	622122104304	PRAVEEN.A	/	/	/	/	/
174	622122104305	SATHISH.M	/	/	/	/	/
175	622122104306	VINOTH.A	/	/	/	/	a
176	622122104307	YOGESH.S.B	/	/	/	/	/

COURSE COORDINATOR

HOD/CSE

Dr. D.BANUMATHY, M.E., Ph.D.,
Professor & Head

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering

CERTIFICATE

This is to certify that

THILAGAN.S

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course "DATA ANALYTICS WITH R". The duration of the course is 30 hours

(18/03/2024 to 22/03/2024)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering

CERTIFICATE

This is to certify that

ASWIN KUMAR S

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course "DATA ANALYTICS WITH R". The duration of the course is 30 hours

(18/03/2024 to 22/03/2024)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering

CERTIFICATE

This is to certify that

GUNA S

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course "DATA ANALYTICS WITH R". The duration of the course is 30 hours

(18/03/2024 to 22/03/2024)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering

CERTIFICATE

This is to certify that

MYTHILI N

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course "DATA ANALYTICS WITH R". The duration of the course is 30 hours

(18/03/2024 to 22/03/2024)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering

CERTIFICATE

This is to certify that

SINDHUJA M

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course "DATA ANALYTICS WITH R". The duration of the course is 30 hours

(18/03/2024 to 22/03/2024)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)
NH 44, PACHAL, NAMAKKAL-637018

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2023-2024

Date:11.03.2024

CIRCULAR

It is planned to conduct Five Days Value Added Course on **"23CSVC601 - IOS App Development "** for Sixth semester students from 18.03.2024 to 22.03.2024. The interested students are asked to enroll their name to the course coordinator Mrs.K.Sudha Devi ASP/CSE on or before 15.03.2024.

Course Incharge: Mrs K.Sudha Devi ASP/CSE

COURSE COORDINATOR

HOD/CSE

Dr.D.BANUMATHY, M.E., Ph.D.,
Professor & Head
Department of Computer Science and Engineering
Paavai Engineering College (Autonomous)

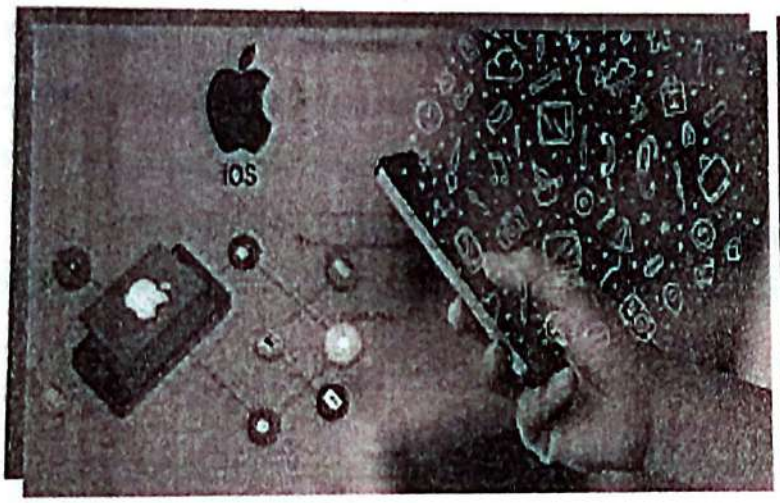
PAAVAI ENGINEERING COLLEGE

(Autonomous)
NH 44, PACHAL, NAMAKKAL-637018

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

23CSVC601 - IOS APP DEVELOPMENT

iOS application development is the process of making mobile applications for Apple hardware, including iPhone, iPad and iPod Touch. The software is written in the Swift programming language or Objective-C and then deployed to the App Store for users to download.



One of the major advantages of iOS app development is the extensive collection of developer resources available to you. Because of the standardization, functionality and consistency of iOS app development, Apple is able to release native APIs and libraries as kits that are stable, feature-rich and easy to use.

INTENDED AUDIENCE:

- III Year B.E., B.TECH., - Students
- Students able to create intents, importing entities and interfaces.

DATE: 18.03.2024 TO 22.03.2024

COURSE INCHARGE: Mrs.K.SUDHA DEVI, ASP/CSE

23CSVC601 - IOS APP DEVELOPMENT	
COURSE OBJECTIVES	
To enable the students to:	
• To understand the iOS app development ecosystem, including the role of Xcode and the App Store.	
• To develop iOS applications using UIView.	
• To implement user interfaces and navigation.	

Unit I Introduction to iOS App Development

Overview of iOS development ecosystem - Introduction to Xcode IDE - Swift programming language basics.

Unit II Data Modeling and Visualization

Understanding UIViews and UIViewControllers - Designing user interfaces using Interface Builder - Implementing navigation and segues.

Unit III User Interfaces And Navigation

Introduction to Core Data framework - Working with local data storage - Integrating SQLite databases - Making HTTP requests with URLSession - Parsing JSON data.

	TOTAL PERIODS	**30**

COURSE OUTCOMES	
At the end this course, students will be able to :	
• Understand the iOS app development ecosystem, including the role of Xcode and the App Store.	
• Develop iOS applications using UIView.	
• Implement user interfaces and navigation.	

TEXT BOOKS

1."Swift Programming: The Big Nerd Ranch Guide" by John Gallagher and Matthew Mathias, 30 June 2022.

REFERENCES

1."SwiftUI by Tutorials" by Audrey Tam, Steve Lipton, and Marin Todorov, 30 September 2021

PAAVAI ENGINEERING COLLEGE
(Autonomous)
NH 44, PACHAL, NAMAKKAL-637018

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2023-2024

VALUE ADDED COURSES

ATTENDANCE SHEET

Year /Semester: III/06

Name of the Course: 23CSVC601 & IOS APP DEVELOPMENT

S.NO.	REGISTER NO.	NAME OF THE STUDENT	18.03.2024	19.03.2024	20.03.2024	21.03.2024	22.03.2024
1	622121104001	R.Abinaya	/	/	/	/	/
2	622121104002	S.Aarthi	/	/	/	/	/
3	622121104003	R.Abinash	/	/	/	/	a
4	622121104004	S.Abishek	/	/	/	/	/
5	622121104005	J.Adhithan	/	/	/	/	/
6	622121104006	R.Akash	/	/	/	a	/
7	622121104007	S.Akash	/	/	/	/	/
8	622121104008	K.Arunprabu	/	a	/	/	/
9	622121104009	K.Asif Ahamed	/	/	/	/	/
10	622121104010	K.Asmitha	/	/	/	/	/
11	622121104011	S.V.Aswin Raaj	/	/	/	/	/
12	622121104012	T.Balaji	/	/	/	/	/
13	622121104013	R.Balakrishnan	/	/	/	/	/
14	622121104014	J.Bharathkrishnan	/	/	a	/	/
15	622121104015	B.Boomathi	/	/	/	/	/
16	622121104017	V.Chandramadhan	/	/	/	/	/
17	622121104018	R.Deepan	a	/	/	/	/
18	622121104019	S.Devadarshini	/	/	/	/	/
19	622121104020	S.Dhanalakshmi	/	/	/	/	/

S.NO.	REGISTER NO.	NAME OF THE STUDENT	18.03.2024	19.03.2024	20.03.2024	21.03.2024	22.03.2024
20	622121104021	A.Dhanush	/	/	/	/	/
21	622121104022	S.Dhivakar	/	/	/	/	/
22	622121104023	K.Dhivya Dharshan	/	/	/	/	/
23	622121104024	K.Dineshram	/	/	/	/	/
24	622121104025	S.Divya Sri	/	/	/	/	/
25	622121104026	A.Eshwaran	/	/	/	/	/
26	622121104027	V.Gobikrishna	/	/	/	/	/
27	622121104028	R.Gopinath	/	/	/	/	/
28	622121104029	U.Guna	/	/	/	/	/
29	622121104031	K.Gunal	/	/	/	/	/
30	622121104032	R.Gunapriyan	/	/	/	/	/
31	622121104033	J.S.Haridhar	/	/	/	/	/
32	622121104034	S.Hariharan	/	/	/	/	/
33	622121104036	B.Jagadeeswaran	/	/	/	/	/
34	622121104037	P.Jagadeshvaran	/	/	/	/	/
35	622121104038	S.Jayasaran	/	/	/	/	/
36	622121104040	J.Joyal Antony	/	/	/	/	/
37	622121104041	K.Kabilan	/	/	/	/	/
38	622121104042	M.Kamali	/	/	/	/	/
39	622121104043	S.Kamil	/	/	/	/	/
40	622121104044	S.Kavin Kamalesh	/	/	/	/	/
41	622121104045	T.Kaviya	/	/	/	/	/
42	622121104046	Kavya Moorthi	/	/	/	/	/
43	622121104047	G.Keerthivasan	/	/	/	/	/
44	622121104048	K.Kirubasankar	/	/	/	/	/
45	622121104049	K.Lakshmanan	/	/	/	/	/
46	622121104050	S.Lokesh	/	/	/	/	/
47	622121104051	J.Lokeshkumar	/	/	/	/	/

S.NO.	REGISTER NO.	NAME OF THE STUDENT	18.03.2024	19.03.2024	20.03.2024	21.03.2024	22.03.2024
48	622121104052	J.Lokeshwaran	/	/	/	/	/
49	622121104053	T.Madheswaran	/	/	/	/	/
50	622121104054	C.Mameeth	/	/	/	/	/
51	622121104055	M.Manibarathi	/	/	/	/	/
52	622121104056	N.Manoj	/	a	/	/	/
53	622121104057	R.S.Manoj	/	/	/	/	/
54	622121104058	M.Manoj Kumar	/	/	/	/	/
55	622121104059	R.C.Mithin	/	/	/	/	/
56	622121104060	D.Mohanraj	/	/	/	/	/
57	622121104061	P.Mohanraj	/	/	/	a	/
58	622121104062	S.Mukesh Kumar	/	/	/	/	/
59	622121104063	J.Najla Farveen	/	/	/	/	/
60	622121104064	M.Namrootha	/	/	/	/	/
61	622121104065	S.S.Narmada	/	/	/	/	/
62	622121104304	Gunji Venu	a	/	/	/	/
63	622121104305	S.Karthik	/	/	a	/	/
64	622121104306	P.Manidhar	/	/	/	/	/
65	622121104310	Sourav Sarkar	/	/	/	/	/
66	622121104309	M.Selvam	/	/	/	/	/
67	622121104301	Bonasi Purushotham	/	/	/	/	/
68	622121104066	P.Naveen Adhithya	/	/	/	/	/
69	622121104067	J.Naveen	/	/	/	/	a
70	622121104069	R.Nisha	/	/	/	/	/
71	622121104070	S.Nithesh	/	/	/	/	/
72	622121104071	G.Nithish	/	/	/	/	/
73	622121104072	S.Pavithra	/	/	/	/	/
74	622121104073	M.Pooja	/	/	/	/	/

S.NO.	REGISTER NO.	NAME OF THE STUDENT	18.03.2024	19.03.2024	20.03.2024	21.03.2024	22.03.2024
75	622121104074	R.Poornima	a	/	/	/	/
76	622121104075	S.Powthra	/	/	/	/	/
77	622121104076	P.Pradeep	/	/	/	/	/
78	622121104077	M.Pradeepkumar	/	/	/	/	/
79	622121104078	R.D.Pragathesh	/	/	/	a	/
80	622121104079	M.Prasanna	/	/	/	/	/
81	622121104080	V.Prasath	/	/	/	/	/
82	622121104081	Praveen Sengottaiyan	/	/	/	/	/
83	622121104082	B.Prem	/	/	/	/	/
84	622121104083	P.G Priyadharshini	/	/	/	/	/
85	622121104084	A.Ragavi	/	/	/	/	/
86	622121104086	S.Rosini	/	/	a	/	/
87	622121104087	G.Sakthivel	/	/	/	/	/
88	622121104088	N.Sampath Kumar	/	/	/	/	/
89	622121104089	V.Sangeetha	/	/	/	/	/
90	622121104090	S.Santhiya	/	/	/	/	/
91	622121104091	S.Santhosh	/	/	/	/	/
92	622121104092	S.Santhosh Kumar	/	/	/	/	/
93	622121104093	G.Saran kumar	/	/	/	/	a
94	622121104094	S.Saranraj	/	/	/	/	/
95	622121104095	S.Saranraj	/	/	/	/	/
96	622121104096	R.Saranya	/	/	/	/	/
97	622121104097	S.Shree kumar	/	/	/	/	/
98	622121104098	E.Shri Hari	/	a	/	/	/
99	622121104099	A.Silambarasan	/	/	/	/	/
100	622121104100	M.Siva	/	/	/	/	/
101	622121104101	R.Sivachandiran	/	/	/	/	/
102	622121104102	M.Siva Shanmugam	/	/	/	/	/

S.NO.	REGISTER NO.	NAME OF THE STUDENT	18.03.2024	19.03.2024	20.03.2024	21.03.2024	22.03.2024
103	622121104103	S.Soniya	/	/	/	/	/
104	622121104104	V.Soundariya lakshmi	/	/	/	/	/
105	622121104105	K.Sree Aravind	/	/	/	/	a
106	622121104106	T.Sriram	/	/	/	/	/
107	622121104107	K.Stalin	/	/	/	/	/
108	622121104108	E.Suriyabhuvanesh	/	/	/	/	/
109	622121104109	M.Surya	/	/	/	/	/
110	622121104110	N.Tamilselvi	/	a	/	/	/
111	622121104111	I.Thamarai selvan	/	/	/	/	/
112	622121104112	K.Thamizharasan	/	/	/	/	/
113	622121104113	K.Thanujaa	/	/	/	/	/
114	622121104114	Thotta Manoj Kumar	/	/	/	/	/
115	622121104115	Thupakula Ganesh	/	/	/	/	/
116	622121104116	S.Trisha	/	/	/	/	/
117	622121104117	E.Udhayarasu	/	/	/	/	/
118	622121104118	M.Varshini	/	/	/	/	/
119	622121104119	N.Vasanth	/	/	/	/	/
120	622121104120	R.Vasanthavelan	/	/	/	/	/
121	622121104121	M.Vijay Anand	/	/	/	/	/
122	622121104122	M.Vimal	/	/	/	/	/
123	622121104123	N.Vinoth	/	/	/	/	/
124	622121104124	V.Vinothkumar	/	/	/	/	/
125	622121104125	S.Vishal	/	/	/	/	/
126	622121104126	D.Vishnu Selvan	/	/	/	/	/
127	622121104127	H.Yashmeen Mushra	/	/	/	/	/
128	622121104308	S.Pradeepa	/	/	a	/	/
129	622121104701	K.Rohith	/	/	/	/	/
130	622121104311	G.Tamizhanban	a	/	/	/	/

S.NO.	REGISTER NO.	NAME OF THE STUDENT	18.03.2024	19.03.2024	20.03.2024	21.03.2024	22.03.2024
131	622121104307	A.Nantha Kumar	/	/	/	/	a
132	622121104303	Gorla Vamshidhar Reddy	/	/	/	/	/
133	622121104302	Dabbara Ganesh	/	/	/	/	/

COURSE COORDINATOR

HOD/CSE

Dr. D.BANUMATHY, M.E., Ph.D.,
Professor & Head
Department of Computer Science and Engineering
Kamal Engineering College (Autonomous)
[illegible] Pachal (PO), Namakkal-637 018

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering

CERTIFICATE

This is to certify that

UDHAYARASU E

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course "IOS APP DEVELOPMENT". The duration of the course is 30 hours

(18/03/2024 to 22/03/2024)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering

CERTIFICATE

This is to certify that

VIMAL M

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course "IOS APP DEVELOPMENT". The duration of the course is 30 hours

(18/03/2024 to 22/03/2024)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering

CERTIFICATE

This is to certify that

AARTHI S

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course "IOS APP DEVELOPMENT". The duration of the course is 30 hours

(18/03/2024 to 22/03/2024)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering

CERTIFICATE

This is to certify that

KAMALI M

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course "IOS APP DEVELOPMENT". The duration of the course is 30 hours

(18/03/2024 to 22/03/2024)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering

CERTIFICATE

This is to certify that

MANOJ N

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course "IOS APP DEVELOPMENT". The duration of the course is 30 hours

(18/03/2024 to 22/03/2024)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)
NH 44, PACHAL, NAMAKKAL-637018

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2023-2024

Date:11.03.2024

CIRCULAR

It is planned to conduct Five Days Value Added Course on "23CSVC801 - **Android App Development"** for Eighth semester students from 18.03.2024 TO 22.03.2024. The interested students are asked to enroll their name to the course coordinator Mrs.K.Sudha Devi ASP/CSE on or before 15.03.2024.

Course Incharge: Mr.V.Maheshkumar, AP/CSE

COURSE COORDINATOR

HOD/CSE

Dr. D.BANUMATHY, M.E., Ph.D
Professor & Head
Department of Computer Science and Engineering
Paavai Engineering College (Autonomous)
NH-44, Pachal (PO), Namakkal-637 018

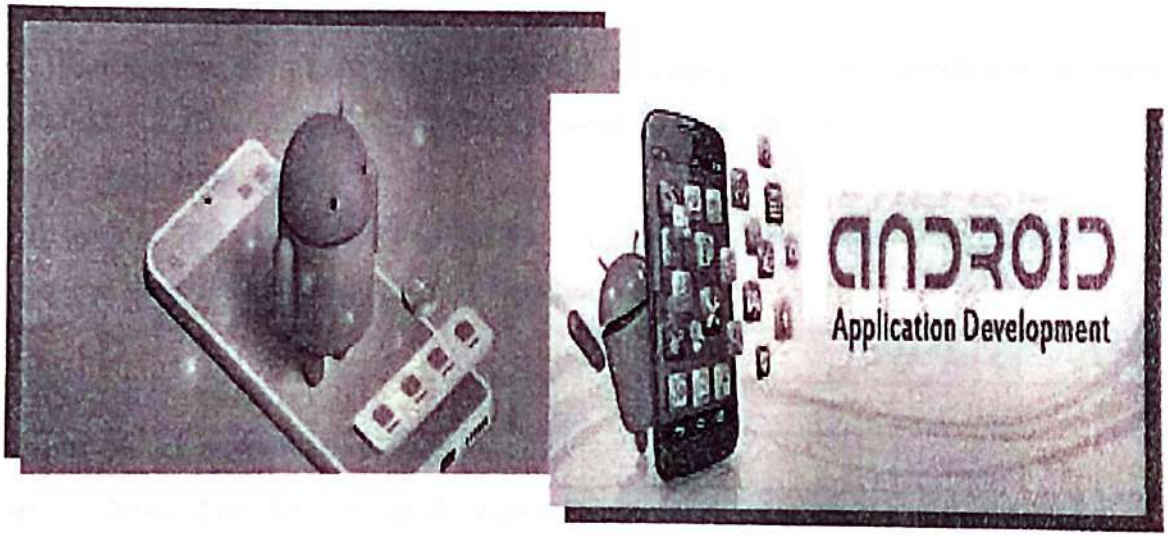
PAAVAI ENGINEERING COLLEGE

(Autonomous)
NH 44, PACHAL, NAMAKKAL-637018

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

23CSVC801 - ANDROID APP DEVELOPMENT

Android App development, it is very important that you familiarize yourself with the build automation tools as well as the integrated development environment before you start developing your app. You can use Android app studio IDE or Eclipse for the tools; they will help you learn the basics and many other things that will help improve your code. You can learn Apache Maven, Apache Ant, and Gradle as they provide a powerful set of tools to help in managing your builds..



Android is a fragmented market with many different devices and operating system versions. Note that, if your device supports more devices and/or versions it will definitely require more maintenance and testing as well as the related costs.

INTENDED AUDIENCE:

- IV Year B.E., B.TECH., - Students
- Students able to implement data sources and databases, modelling and visualization, power Bi queries,

DATE: 18.03.2024 TO 22.03.2024

COURSE INCHARGE: Mr.V.MAHESHKUMAR, AP/CSE

23CSVC801 - ANDROID APP DEVELOPMENT		
COURSE OBJECTIVES		
To enable the students to:		
• To understand the Android app development ecosystem, including the role of Android Studio and the Google Play Store.		
• To develop Android applications using **Activities and Fragments.**		
• To implement user interfaces and navigation using XML layouts and Android UI components.		
Unit I Introduction to Android AppDevelopment Overview of Android development ecosystem - Introduction to Android Studio IDE - Setting up development environment and creating first Android project. **Unit II Activities and Fragments** Introduction to Activities and Fragments - Managing multiple activities and fragment transactions - Implementing navigation using Intents and Intent Filters. **Unit III Data Management** Understanding XML layouts and resource files - Designing user interfaces using Layouts, Views, and ViewGroups - Handling user input and events.		
	TOTAL PERIODS	**30**
COURSE OUTCOMES		
At the end this course, students will be able to :		
• Understand the Android app development ecosystem, including the role of Android Studio and the Google Play Store.		
• Develop Android applications using Java programming language.		
• Implement user interfaces and navigation using XML layouts and Android UI components.		
TEXT BOOKS		
1.Android Programming: The Big Nerd Ranch Guide (Big Nerd Ranch Guides) by Bill Phillips, Chris Stewart, Kristin Marsicano, Brian Gardner..		
REFERENCES		
1.Programming Android: Java Programming for the New Generation of Mobile Devices by ZigurdMednieks, G. Blake Meike, Laird Dornin, and Masumi Nakamura.		

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2023-2024

VALUE ADDED COURSES

ATTENDANCE SHEET

Year /Semester: IV/08

Name of the Course: 23CSVC801 & ANDROID APP DEVELOPMENT

S.NO.	REGISTER NO.	NAME OF THE STUDENT	18.03.2024	19.03.2024	20.03.2024	21.03.2024	22.03.2024
1	20104002	AJAY.S	/	/	/	/	/
2	20104003	ARAVINTHRAJ.N.S	/	/	/	/	/
3	20104004	ARULSELVAR.S	/	/	/	/	/
4	20104005	ARUNKUMAR.A	/	/	/	/	/
5	20104006	ARUNPANDIYAN. M	/	/	/	/	/
6	20104007	ASMA BEGAM.M	/	/	/	/	/
7	20104008	ASNY RAJELIN.D	/	/	/	/	/
8	20104009	ATCHAYA.B	/	/	/	/	/
9	20104010	ATTHISH.P	/	/	/	/	/
10	20104011	AVINASH.K	/	/	/	/	/
11	20104013	CHENNAREDDY ESWAR CHANDRA SAI	/	/	/	/	/
12	20104014	DAVID PRAKASH.M	/	/	/	a	/
13	20104015	DEEPASREE.M	/	/	/	/	/
14	20104016	DHANABALAN.K	/	/	/	/	/
15	20104017	DHARANIDHARAN.N	/	/	/	/	/
16	20104018	DHARSHINI.G	/	/	/	/	/
17	20104019	DHARSHINI.S	/	/	/	/	/
18	20104020	DHINAKARAN.S	/	/	/	/	/
19	20104021	DILIP.T.U	/	/	/	/	/

S.NO.	REGISTER NO.	NAME OF THE STUDENT	18.03.2024	19.03.2024	20.03.2024	21.03.2024	22.03.2024
20	20104022	DINESHBABU.S	/	/	/	/	/
21	20104023	DUDDU RADHA KRISHNA	/	/	/	/	/
22	20104024	GOKUL PRASANTH.G	/	/	/	/	/
23	20104025	GOKUL PRASATH.M	/	/	/	/	/
24	20104026	GOWTHAM.D	/	/	/	/	/
25	20104027	GUNA.T	/	/	/	/	/
26	20104028	HARI PRASATH.G	a	/	/	/	/
27	20104029	HARIHARAN.K	/	/	/	/	/
28	20104030	JAGADEESH.M	/	/	/	/	a
29	20104031	JAI SURIYA.S	/	/	/	/	/
30	20104032	JASWANTHRAJ.G	/	/	/	/	/
31	20104033	JEEVA.S	/	/	a	/	/
32	20104034	JEEVA.V	/	/	/	/	/
33	20104035	JEEVANKUMAR.S	/	/	/	/	/
34	20104036	JERUSHA.A.S	/	/	/	/	/
35	20104037	JEYAPANDI.M	/	/	/	/	/
36	20104038	KANNAN.P	/	/	/	/	/
37	20104039	KARTHICK.R	/	/	/	/	/
38	20104040	KARTHIK.P	/	/	/	/	/
39	20104041	KAVIN.M	/	/	/	/	/
40	20104042	KAVINKUMAR.S	/	/	/	/	/
41	20104043	KAVINRAJA.S	/	/	/	/	/
42	20104044	KEERTHANA.V	/	/	/	/	/
43	20104045	KEERTHIVASAN.V	/	a	/	/	/
44	20104046	KESAVAN.L	/	/	/	/	/
45	20104047	KESHAVARAJSHARMAA. R	/	/	/	/	/
46	20104048	KIRUBAKARAN.E	/	/	/	/	/
47	20104049	KIRUBHA.M	/	/	/	/	/

S.NO.	REGISTER NO.	NAME OF THE STUDENT	18.03.2024	19.03.2024	20.03.2024	21.03.2024	22.03.2024
48	20104050	KISHORE KUMAR. AL	/	/	/	/	/
49	20104051	KISHORE NITHIN.N	/	/	/	/	/
50	20104052	KRISHNAKUMAR.G	/	a	/	/	/
51	20104053	LALITHKUMAR.V	/	/	/	a	/
52	20104054	MADESH.R	/	/	/	/	/
53	20104055	MAHANANTHAM.N	/	/	/	/	/
54	20104056	MAIBALAN.K	/	/	a	/	/
55	20104057	MANOJPRABHAKAR.P	/	/	/	/	/
56	20104058	MATHAKALA MANEESHA	/	/	/	/	/
57	20104059	MEKALA.M	/	/	/	/	/
58	20104060	MITHRAN.I.R	/	/	/	/	/
59	20104061	MOHANA PRIYA.V	/	/	/	/	/
60	20104062	MUGUNDHAN.R	a	/	/	/	/
61	20104063	NANDHINI.A	/	/	/	/	/
62	20104064	NANDHINI.A	/	/	/	/	/
63	20104065	NANDHINI.S	/	/	/	/	/
64	20104066	NARAYANASAMY.V.M	/	/	/	/	/
65	20104067	NATHISH KUMAR.M	/	/	/	/	/
66	20104068	NAVEEN VIJAY.T	/	/	/	/	/
67	20104069	NAVIN KRISHNA.S.R	/	/	/	/	/
68	20104070	NITHISH KUMAR.N	/	/	/	/	/
69	20104071	NITHYASRI.M	/	/	/	/	a
70	20104072	PAMIDI PRAHARSHA	/	/	/	/	/
71	20104073	PRADEEPKUMAR.A	/	/	/	/	/
72	20104074	PREETHI.S	/	/	/	/	/
73	20104075	PRIYANKA.S	/	/	/	/	/
74	20104076	PUGAZHENTHI.K	/	/	/	/	/
75	20104077	RATHIS.M	/	/	/	/	/

S.NO.	REGISTER NO.	NAME OF THE STUDENT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
76	20104078	ROSHINI V	/	/	/	/	/
77	20104079	RUTHRA M	/	/	/	/	/
78	20104080	SABARINATHAN C	/	/	/	/	/
79	20104081	SAKTHI SRIDHAR S.B	/	/	/	/	/
80	20104082	SAMIDURAI D	/	/	/	/	/
81	20104083	SANJAY BABU M	/	/	/	/	/
82	20104084	SANJAYPRASANTH T.M	/	/	/	/	/
83	20104085	SANTHOSH S	/	/	/	/	/
84	20104086	SANTHOSHKUMAR C	/	/	/	/	/
85	20104087	SARAN V	/	/	/	/	/
86	20104088	SARANYA S	/	/	/	/	/
87	20104089	SASIREKHA R	/	/	/	/	/
88	20104090	SETHUPATHI C	/	/	/	/	/
89	20104091	SHARAVANAN A.K	/	/	/	/	/
90	20104092	SIMI LAUREN J	/	/	/	/	/
91	20104093	SOUNDHARAJAN S	/	/	/	/	/
92	20104094	SOWMYA K	a	/	/	/	/
93	20104095	SRIKANTH J	/	/	/	/	/
94	20104096	SRIKANTH K	/	/	/	/	/
95	20104097	SRIKANTH S	/	/	/	/	/
96	20104098	SUBA R	/	/	/	/	/
97	20104099	SUBHIKSHA G.B	/	/	/	/	/
98	20104100	SUJITH D	/	/	/	/	/
99	20104101	SURESH E	/	/	/	/	/
100	20104102	SURIYA A	/	/	/	/	/
101	20104103	SURYA R	/	/	/	/	/
102	20104104	SWITHA R	/	/	/	/	/
103	20104105	UMMADIPOLU LAKSHMI LAHARI	/	/	/	/	/

S.NO.	REGISTER NO.	NAME OF THE STUDENT	18.03.2024	19.03.2024	20.03.2024	21.03.2024	22.03.2024
104	20104106	VAGRASRI S	/	/	/	/	/
105	20104107	VARSHINI .S	/	/	/	/	/
106	20104108	VASANTHAN.B	/	a	/	/	/
107	20104111	VETRISELVAN.V	/	/	/	/	/
108	20104112	VIGNESHWARAN.K	/	/	/	/	/
109	20104113	VIMALRAJ.S	/	/	/	/	a
110	20104114	VISHWA TEJA.S	/	/	/	/	/
111	20104115	YOGASUNDARAM.K	/	/	/	/	/
112	20104116	YUKESHKUMAR.A	/	/	/	/	/
113	20104301	BALAJI.T	/	/	/	/	/
114	20104303	ELAVARASI.K	/	/	/	/	/
115	20104304	GOKUL KANNAN.S	/	/	/	/	/
116	20104305	MONISH KUMAR.R	a	/	/	/	/
117	20104308	VIGNESH.G	/	/	/	/	/
118	20104501	VENKATESH .C	/	/	/	/	/

COURSE COORDINATOR

HOD/CSE

Dr. D.BANUMATHY, M.E., Ph.D.
Professor & Head
Department of Computer Science and Engineering
Paavai Engineering College (Autonomous)
NH-44, Pachal (PO), Namakkal-637 018

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering

CERTIFICATE

This is to certify that

VETRISELVAN V

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course "ANDROID APP DEVELOPMENT". The duration of the course is 30 hours

(18/03/2024 to 22/03/2024)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering

CERTIFICATE

This is to certify that

AJAY S

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course "ANDROID APP DEVELOPMENT". The duration of the course is 30 hours

(18/03/2024 to 22/03/2024)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering

CERTIFICATE

This is to certify that

LALITHKUMAR V

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course "ANDROID APP DEVELOPMENT". The duration of the course is 30 hours

(18/03/2024 to 22/03/2024)

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering

CERTIFICATE

This is to certify that

NITHYASRI M

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course "ANDROID APP DEVELOPMENT". The duration of the course is 30 hours

(18/03/2024 to 22/03/2024)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Computer Science and Engineering

CERTIFICATE

This is to certify that

SARANYA S

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course "ANDROID APP DEVELOPMENT". The duration of the course is 30 hours .

(18/03/2024 to 22/03/2024)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)

NAMAKKAL - 637 018

DEPARTMENT OF CYBER SECURITY

DATE: 02.09.2023

CIRCULAR

It is planned to conduct Five Days Value Added Course on **"MACHINE LEARNING WITH PYTHON"** for Third semester students from 12.09.23 to 16.09.23.The interested students are asked to enroll their names to the course coordinator R.RAJALAKSHMI, AP/CYS on or before 1109.23.

Course Coordinators: R.RAJALAKSHMI, AP/CYS

HOD/CYS

Copy to:

Notice board

PAAVAI ENGIEERING COLLEGE

(Autonomous)

DEPARTMENT OF CYBER SECURITY

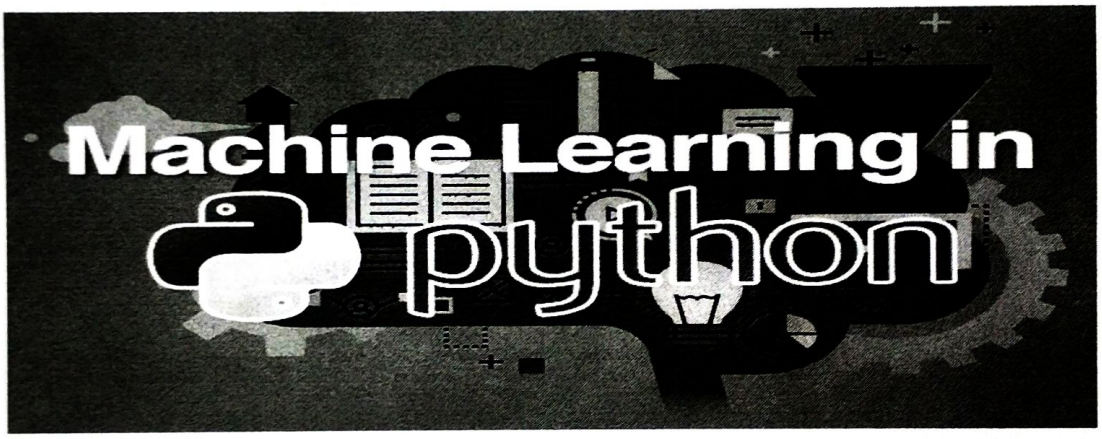
Value Added Course

ON

20CYVC301 - MACHINE LEARNING WITH PYTHON

ABOUT THE COURSE:

Machine learning is a method of teaching computers to learn from data, without being explicitly programmed. Python is a popular programming language for machine learning because it has a large number of powerful libraries and frameworks that make it easy to implement machine learning algorithms.



INTENDED AUDIENCE:

- II Year of B.E, B. Tech – Students
- Students able to apply a variety of techniques to solve problems in areas such as machine learning and Artificial Intelligence.

Date: 12.09.23 to 16.09.23

Venue: Class Room No AB 304

Course Coordinator:

R. RAJALAKSHMI, AP/ CYS

PAAVAI ENGIEERING COLLEGE

(Autonomous)

DEPARTMENT OF CYBER SECURITY

MACHINE LEARNING WITH PYTHON

20CYVC301

COURSE OBJECTIVES

To enable the students to

- understand the fundamentals of various machine learning algorithms.
- gain knowledge on important methods in Fuzzy and Genetic algorithm.
- study the machine learning algorithms for various heuristic and non-heuristic algorithms.

Module 1 - Introduction to Machine Learning

Applications of Machine Learning, Supervised vs Unsupervised Learning, Python libraries suitable for Machine Learning, Linear Regression Non-linear Regression, Model evaluation methods.

Module 2 – Classification

K-Nearest Neighbour, Decision Trees, Logistic Regression, Support Vector Machines, Model Evaluation.

Module 3 - Unsupervised Learning

K-Means Clustering, Hierarchical Clustering, Density-Based Clustering, Content-based recommender systems, Collaborative Filtering.

TOTAL PERIODS 30

COURSE OUTCOMES

At the end this course, students will be able to

- differentiate the basics of supervised and semi supervised learning methods.
- retrieve the unsupervised and reinforcement learning methods involved in artificial learning.
- interpret the concept of artificial neural networks and their control applications.

TEXT BOOKS

1. Ethem Alpaydin, Introduction to Machine Learning, The MIT Press, Cambridge, London.2014.

REFERENCES

1. Simon Haykin, Neural Networks , A comprehensive foundation, Prentice Hall, 3rd Edition, 2004.

PAAVAI ENGIEERING COLLEGE

(Autonomous)

DEPARTMENT OF CYBER SECURITY

Academic Year: 2023-2024

VALUE ADDED COURSE

ATTENDANCE SHEET

Year/Semester : II/III

Name of the Course: 20CYVC301- Machine Learning with Python

S. No	Register Number	Student Name	12.09.23	13.09.23	14.09.23	15.09.23	16.09.23
1	622122111002	AASHIK.N	1	1	1	1	1
2	622122111003	ABHIMANYU.C	1	1	1	AB	1
3	622122111004	ABISHEK.G	1	1	1	1	1
4	622122111005	AJMAL THAHSEEN.A	1	1	1	1	1
5	622122111006	ALDAN JERI.M	1	1	AB	1	1
6	622122111007	AMALRAJ.M.O	1	1	1	1	1
7	622122111008	ANANDHA KUMAR.V	1	1	1	1	1
8	622122111009	ANTONY WILSON.S	AB	1	1	1	1
9	622122111010	ANU RAGEE.K	1	1	1	1	1
10	622122111011	ANUSHIYA.G.M	1	1	1	1	1
11	622122111012	ARASU.R	1	1	1	1	1
12	622122111013	ARAVIND.N	1	AB	1	1	1
13	622122111014	ARAVINDH.S	1	1	1	1	AB
14	622122111015	AROKIYA RAJ.J	1	1	1	AB	1
15	622122111016	AVINESH.R	1	1	1	1	1
16	622122111017	AYATHULLA.N	1	1	1	1	1
17	622122111018	BALAJI SANJAY.A	AB	1	1	1	1
18	622122111019	BALAMURUGAN.S	1	1	1	1	1
19	622122111020	BANU.S	1	1	1	1	1
20	622122111021	BARANINISHANTH.P	1	1	1	1	1
21	622122111022	BARANITHARAN.V	1	1	1	1	1
22	622122111023	BERLIN JAISH.M	1	1	1	1	1

23	622122111024	BHARATH.M	1	1	1	1	1
24	622122111026	CHANDRU.K	1	1	1	1	1
25	622122111027	CHEEMALADINNE LAKSHMIVARDHAN	1	1	1	1	1
26	622122111028	CHENNAKESAVAN.M	1	1	AB	1	1
27	622122111029	CHITTURI NAVINEETH	AB	1	1	1	1
28	622122111030	DEVADHARSHINI.S	1	1	1	1	1
29	622122111032	DHANUSH.M	1	AB	1	1	1
30	622122111033	DHANUSHKUMAR.M	1	1	1	1	1
31	622122111034	DHARSHANA.R	1	1	1	1	1
32	622122111036	DIWAHAR.V	1	1	1	1	1
33	622122111037	EZHILARASAN.A	1	1	1	1	1
34	622122111038	GANAPATHI.M	1	1	1	AB	1
35	622122111039	GOKUL.K	1	1	1	1	1
36	622122111040	GOKULRAJ.M	1	1	1	1	AB
37	622122111041	GOWDHAM.A	1	1	1	1	1
38	622122111043	GOWTHAMAN.V	AB	AB	AB	AB	AB
39	622122111044	GUNDALA VENKATESWARLU	1	1	1	1	1
40	622122111045	GUNTUPALLI MANOJ	1	1	1	1	1
41	622122111046	GURU PRASATH.B	1	1	1	1	1
42	622122111047	GURUKISHORE.T	1	1	1	AB	1
43	622122111048	HANSIKA.K	1	1	1	1	1
44	622122111049	HARIHARAN.R.S	1	1	1	1	1
45	622122111050	HARIKARAN.V	1	1	1	1	1
46	622122111051	HEMA DINESH.V	1	1	1	1	1
47	622122111052	JANA.V	1	1	1	1	1
48	622122111053	JAYSANKAR.P	1	1	1	1	1
49	622122111054	JOHN.P.M	1	1	1	1	1
50	622122111055	KALIRAJ.M	1	AB	1	1	1
51	622122111056	KARTHIK	1	1	1	1	1

		SANKKAR.V.B	-	-	-	-	-
52	622122111057	KARTHIKA.P	1	1	1	1	1
53	622122111058	KARTHIKEYAN.V	1	1	1	1	1
54	622122111059	KAVIYARASU.R	1	1	1	1	1
55	622122111060	KISHORE.M	1	AB	1	1	1
56	622122111061	KISHORE.S	1	1	1	1	1
57	622122111062	KODAVALI DAVID RAJ	1	AB	1	1	1
58	622122111301	ANTONY GABRIEL.A	1	1	1	1	1
59	622122111302	GOKULAKANNAN.R	1	1	1	1	1
60	622122111303	PRABHU.B	1	1	1	1	1
61	622122111063	KORIMELLA ARAVIND	1	1	AB	1	1
62	622122111064	KORRAPATI TEJA SWAROOP	1	1	1	1	1
63	622122111065	KOTU ASHOK KUMAR	1	1	1	1	AB
64	622122111066	KUDUMALA NAVEEN KUMAR	1	1	AB	1	1
65	622122111067	LETHISH KUMAR.T	1	1	1	1	1
66	622122111068	LOKESH.G	1	1	1	1	1
67	622122111069	LOKESH.S	1	1	1	1	1
68	622122111070	MADHAN.K	1	1	1	1	1
69	622122111071	MAHESWARAN.A	1	1	1	1	1
70	622122111072	MANIKANDAN.A	1	1	1	1	1
71	622122111073	MANOJ KUMAR.S	1	1	1	1	1
72	622122111074	MOHAMED AADHIL.A	AB	1	1	1	1
73	622122111075	MOHAMED IBRAHIM.H	1	1	1	1	1
74	622122111076	MOHAN.M	1	1	1	1	1
75	622122111077	MONASH.G	1	1	1	1	1
76	622122111078	MYNAM RAJA	1	1	1	1	1

		SEKHAR					
77	622122111079	NANDHAKUMAR.K	1	1	AB	1	1
78	622122111080	NANTHEES.O.R	1	1	1	1	1
79	622122111081	NAVEENKUMAR.S	1	1	1	1	1
80	622122111082	PARTHASARATHY.S	1	1	1	1	1
81	622122111083	PITTALA VASU	1	AB	1	1	AB
82	622122111084	PONNARASU.M	1	1	1	1	1
83	622122111085	POOJA.A.M	1	1	1	1	1
84	622122111087	PRITHIKA.R	1	1	1	1	1
85	622122111088	RAGUL.R	1	1	1	1	1
86	622122111089	RAMANA.B	1	1	1	1	1
87	622122111090	ROHITH.P	1	1	1	1	1
88	622122111091	SAJITH.S	1	1	1	1	1
89	622122111092	SAKTHIVEL.S	1	1	1	1	1
90	622122111093	SAMUEL.R	1	1	1	1	1
91	622122111096	SENTHAMARAI KANNAN.S	1	1	1	1	1
92	622122111097	SETHU RAJA.R	1	1	1	1	1
93	622122111098	SHALINI.N	1	1	1	1	1
94	622122111099	SHEETHAL.J	1	1	1	1	1
95	622122111100	SIDDHARTHAN.N	1	1	AB	1	1
96	622122111101	SUDHARSAN.K	1	1	1	1	1
97	622122111102	SUDHARSAN.S	1	1	1	1	1
98	622122111103	SUGANTHAN.T	1	1	1	1	1
99	622122111104	SUMAN.K	1	1	1	1	1
100	622122111105	SUNIL.S	1	AB	1	AB	1
101	622122111106	SURYAGANDHAN.S.V	1	1	1	1	1
102	622122111107	SWATHY.S	1	1	1	1	1
103	622122111108	TAMILARASAN.S	1	1	1	1	1
104	622122111109	THARUNKUMAR.M	1	1	1	1	1
105	622122111110	THIPPIREEDY	1	1	1	1	1

		RAJASEKHAR REDDY	-	-	-	-	-
106	622122111111	THIRUMOORTHI.C	1	1	1	1	1
107	622122111112	UVARAJKUMAR.S	1	1	1	AB	1
108	622122111113	VAISHAK.S	1	1	1	1	1
109	622122111114	VANAMA JASWANTH RAO	AB	1	1	1	1
110	622122111115	VASANTHAN.J	1	1	1	1	1
111	622122111116	VENNAPUSA SUDHARANI	1	1	1	1	1
112	622122111117	VIGNESH REDDY.S	1	AB	1	1	1
113	622122111118	VINOTH.C	1	1	1	1	1
114	622122111119	VISHVABHARATHI.A	1	1	AB	1	1
115	622122111120	YASWANTH ANIL MANGADUDDI	1	1	1	1	1
116	622122111121	YUVANESH.S	1	1	1	1	1
117	622122111122	YUVARAJ.A	1	1	1	1	1

Course Coordinator

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Cyber Security

CERTIFICATE

This is to Certify that

AJMAL THAHSEEN.A

of Paavai Engineering College, studying in Second Year has successfully completed the Value-added Course “Machine Learning with Python”. The duration of the course is 30 hours (12/09/2023 to 16/09/2023)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Cyber Security

CERTIFICATE

This is to Certify that

HARIHARAN.R.S

of Paavai Engineering College, studying in Second Year has successfully completed the Value-added Course “Machine Learning with Python”. The duration of the course is 30 hours (12/09/2023 to 16/09/2023)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Cyber Security

CERTIFICATE

This is to Certify that

GURU PRASATH.B

of Paavai Engineering College, studying in Second Year has successfully completed the Value-added Course “Machine Learning with Python”. The duration of the course is 30 hours (12/09/2023 to 16/09/2023)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Cyber Security

CERTIFICATE

This is to Certify that

DIWAHAR.V

of Paavai Engineering College, studying in Second Year has successfully completed the Value-added Course “Machine Learning with Python”. The duration of the course is 30 hours (12/09/2023 to 16/09/2023)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Cyber Security

CERTIFICATE

This is to Certify that

BANU.S

of Paavai Engineering College, studying in Second Year has successfully completed the Value-added Course “Machine Learning with Python”. The duration of the course is 30 hours (12/09/2023 to 16/09/2023)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)

NAMAKKAL - 637 018

DEPARTMENT OF CYBER SECURITY

DATE: 02.09.2023

CIRCULAR

It is planned to conduct Five Days Value Added Course on **"SECURITY PATTERNS"** for Fifth semester students from 12.09.2023 to 16.09.2023.The interested students are asked to enroll their names to the course coordinator R.LAVANYA, AP/CYS on or before 1109.2023.

Course Coordinators: R.LAVANYA, AP/CYS

HOD/CYS

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PAAVAI ENGIEERING COLLEGE

(Autonomous)

DEPARTMENT OF CYBER SECURITY

Value Added Course

ON

20CYVC501 SECURITY PATTERNS

ABOUT THE COURSE:

Security patterns can be applied to achieve goals in the area of security. All of the classical design patterns have different instantiations to fulfill some information security goal: such as confidentiality, integrity, and availability. Additionally, one can create a new design pattern to specifically achieve some security goal.

INTENDED AUDIENCE:

- III Year of B.E, B. Tech – Students
- Students able to apply a variety of techniques to solve security issues by creating pattern to achieve security goals.

Date: 12.09.23 to 16.09.23

Venue: Class Room No AB304

Course Coordinator:

R.LAVANYA, AP/ CYS

PAAVAI ENGIEERING COLLEGE

(Autonomous)

DEPARTMENT OF CYBER SECURITY

SECURITY PATTERNS

20CYVC501

COURSE OBJECTIVES

To enable the students to

- learn Software Development and Deployment that is reliable, scalable and portable.
- learn object oriented programming through Security Design Patterns.
- learn secure integrating web applications developed on varied platform through security Patterns.

Module 1 - Introduction to Security patterns

Introduction to Security patterns, Nature and need of security patterns, evaluation of security, Patterns and their effect on security, Anatomy of security patterns, Characteristics of security patterns, uses of security patterns, classification of security patterns.

Module 2 - Security Pattern Landscape

Security Pattern Landscape, Circle of Trust, Security Needs Identification for Enterprise Assets, Threat Assessment, Vulnerability Assessment, Identification & Authentication (I&A) Requirements and Patterns.

Module 3 - Patterns for Access Control

Patterns for Access Control: Authorization, Role-Based Access Control, Multilevel Security, Reference Monitor, Role Rights Definition, Implementation of Authentication and Authorization patterns.

TOTAL PERIODS 30

COURSE OUTCOMES

At the end this course, students will be able to

- acquire Software development skills that are reliable, scalable and portable applications.
- design and implement software development with Clean Code through use of Security design patterns.
- build authentication systems with secure and reliable components.

TEXT BOOKS

1. Eduardo Fernandez, "Security patterns in Practice", Wiley , First Edition, 2013.

REFERENCES

1. Chad Dougherty, Kirk Sayre, Robert C. Seacord, David Svoboda, Kazuya Togashi "Secure Design
Patterns", Software Engineering Institute, CERT, First Edition, 2009.

PAAVAI ENGIEERING COLLEGE

(Autonomous)

DEPARTMENT OF CYBER SECURITY

Academic Year: 2023-2024

VALUE ADDED COURSE

ATTENDANCE SHEET

Year/Semester : III /V
Name of the Course: 20CYVC501 / SECURITY PATTERNS

S. No	Register Number	Student Name	12.09.23	13.09.23	14.09.23	15.09.23	16.09.23
1	622121111001	AKASH.K	1	1	1	1	
2	622121111003	ARULKUMAR. S	1	1	1	1	1
3	622121111004	ARUN R	AB	AB	AB	AB	AB
4	622121111005	BALA.P	1	1	1	AB	1
5	622121111006	BALAMANIKANDAN M	1	1	1	1	1
6	622121111007	BHARANIDHARAN S	1	1	1	1	1
7	622121111008	BHUVANESHWARAN	1	1	1	1	1
8	622121111009	DHANUSH.M	1	1	1	1	1
9	622121111010	DHARANI.D	1	1	1	1	1
10	622121111011	DHARMARAJ.D	1	1	1	1	AB
11	622121111012	DHARSINI R	1	1	1	AB	1
12	622121111013	DHINAKARAN S	1	1	1	1	1
13	622121111014	DURGADEVI S	1	1	1	1	1
14	622121111015	ELAMPARITHI S	1	1	1	1	1
15	622121111016	GOKUL R	1	1	1	1	1
16	622121111017	GOKULNATH.S	1	1	1	1	1
17	622121111018	GOWTHAM A	1	1	1	1	1
18	622121111019	HARIHARAN S	1	1	1	1	AB
19	622121111020	HARIKRISHNAN R	1	1	1	1	1
20	622121111021	JANA.M	1	1	1	1	1
21	622121111022	JAYASRI.S	1	1	1	1	1

22	622121111023	JEEVANANTHAM M	1	1	1	AB	1
23	622121111024	KABILAN K	1	1	1	1	1
24	622121111025	KARTHICK R	1	AB	1	1	1
25	622121111026	KESAVAN.T	1	1	1	1	1
26	622121111027	KESHAVAN.T	1	1	1	1	1
27	622121111028	KUMARESAN L	1	1	1	1	1
28	622121111029	KUMARJEYANTH K	1	1	1	1	1
29	622121111030	MADHANKUMAR M	1	1	AB	1	1
30	622121111031	MAGIMAI RAJ J	1	1	1	1	1
31	622121111032	MUKESH M	1	1	1	1	1
32	622121111033	MUTHU PANDIYAN.P	AB	1	1	AB	1
33	622121111034	NANDHAKUMAR B	1	1	1	1	1
34	622121111035	NIRANJANI.M	1	1	1	1	1
35	622121111036	NITHIYAN M	1	1	1	1	1
36	622121111037	PASUPATHI.R	1	1	1	1	1
37	622121111038	PAVINATH E	1	1	1	1	1
38	622121111039	POOBALAN M	1	1	1	1	1
39	622121111040	PRASANTH.S	1	1	1	1	1
40	622121111041	PRAVEENKUMAR A	AB	1	1	1	1
41	622121111043	RAJA.S	1	1	1	1	1
42	622121111044	RAJAMOHAN R	1	1	1	1	1
43	622121111045	RANJITH.B	1	1	1	1	1
44	622121111046	ROHIT.K	1	1	1	AB	1
45	622121111048	S.SABHAREESH	1	1	1	1	1
46	622121111047	SABARISHAN P	1	1	1	1	1
47	622121111049	SAKTHI.K	1	1	1	1	1
48	622121111050	SALMANKHAN K	1	1	1	1	1
49	622121111051	SANGAMITHRAN	1	1	1	1	1
50	622121111052	SANJAY.P	1	1	1	1	1
51	622121111053	SANTHOSHKUMAR M	1	1	AB	1	1

52	622121111054	SARANRAJ K	1	1	AB	1	1
53	622121111055	SATHISH KUMAR V	AB	1	1	AB	AB
54	622121111056	SRI CIBI . S	1	1	1	1	1
55	622121111058	SRI PRASANNA S	1	1	1	1	1
56	622121111057	SRI SARAN.S	AB	AB	AB	AB	AB
57	622121111059	SUSHMITHA.K	1	1	1	1	1
58	622121111061	THARNEESH.S.R	1	1	1	1	1
59	622121111062	THIVAGAR A P	1	1	1	1	1
60	622121111063	VINOTH KUMAR M	1	1	1	AB	1
61	622121111301	GOKUL B	1	1	1	1	1

P. Lavanya

Course Coordinator

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Cyber Security

CERTIFICATE

This is to Certify that

ARULKUMAR. S

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course “SECURITY PATTERNS”. The duration of the course is 30 hours (12/09/2023 to 16/09/2023)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Cyber Security

CERTIFICATE

This is to Certify that

BALAMANIKANDAN M

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course “SECURITY PATTERNS”. The duration of the course is 30 hours (12/09/2023 to 16/09/2023)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Cyber Security

CERTIFICATE

This is to Certify that

DHARANI D

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course “SECURITY PATTERNS”. The duration of the course is 30 hours (12/09/2023 to 16/09/2023)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Cyber Security

CERTIFICATE

This is to Certify that

ELAMPARITHI S

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course “SECURITY PATTERNS”. The duration of the course is 30 hours (12/09/2023 to 16/09/2023)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Cyber Security

CERTIFICATE

This is to Certify that

GOKULNATH.S

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course “SECURITY PATTERNS”. The duration of the course is 30 hours (12/09/2023 to 16/09/2023)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)

NAMAKKAL - 637 018

DEPARTMENT OF CYBER SECURITY

DATE: 05.09.2023

CIRCULAR

It is planned to conduct Five Days Value Added Course on "**BUG BOUNTY**" for Seventh semester students from 12.09.23 to 16.09.23 .The interested students are asked to enroll their names to the course coordinator R. LOGANATHAN, AP/CYS on or before 11.09.23

Course Coordinators: R. LOGANATHAN, AP/CYS

HOD/CYS

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PAAVAI ENGIEERING COLLEGE

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DEPARTMENT OF CYBER SECURITY

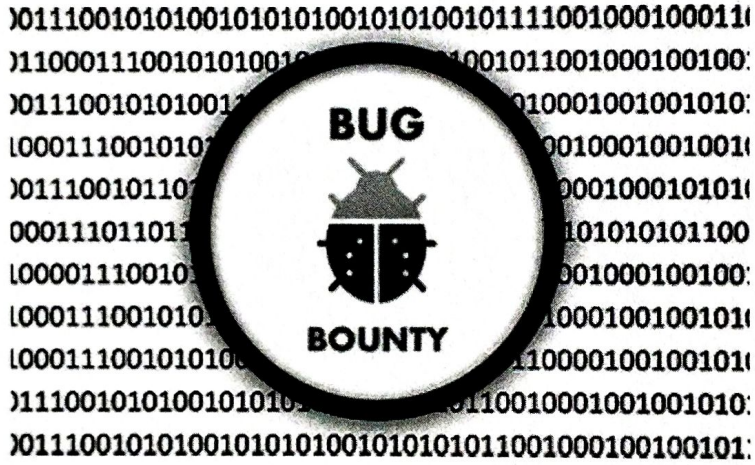
Value Added Course

ON

20CYVC701 - BUG BOUNTY

ABOUT THE COURSE:

Bug bounty is a method of rewarding individuals for discovering and reporting vulnerabilities in software systems. Bug bounty programs encourage ethical hackers to identify security flaws and improve the security of applications without the need for explicit involvement from the organization. Platforms like Hacker One and Bug crowd provide a collaborative environment where researchers can report vulnerabilities in exchange for rewards, helping organizations enhance their cyber security defenses.



INTENDED AUDIENCE:

- IV Year of B.E, B. Tech – Students
- Students able to apply a variety of techniques to solve problems in areas such as machine learning and Artificial Intelligence.

Date: 12.09.23 to 16.09.23

Venue: Class Room No AB302

Course Coordinator:

R.LOGANATHAN, AP/ CYS

PAAVAI ENGIEERING COLLEGE

(Autonomous)

DEPARTMENT OF CYBER SECURITY

BUG BOUNTY

20CYVC701
COURSE OBJECTIVES

To enable the students to:

- Understand the fundamentals of ethical hacking and bug bounty hunting.
- Gain knowledge of important techniques for identifying and exploiting vulnerabilities in web applications, networks, and mobile applications.
- Study bug bounty tools and platforms, focusing on both manual testing and automated reconnaissance methods.

UNIT I - INTRODUCTION TO BUG BOUNTY AND ETHICAL HACKING

Introduction, Ethical Hacking Overview, Bug Bounty Platforms , program participation. Vulnerability Life Cycle: Identifying, reporting, patching, and disclosure phases.

UNIT II - NETWORK AND WEB APPLICATION VULNERABILITIES

Understanding Web Application Security: OWASP Top 10 vulnerabilities. Network Vulnerabilities, Cross-Site Scripting (XSS), SQL Injection (SQL), File Inclusion Vulnerabilities, Local and remote file inclusions.

UNIT III - REPORTING VULNERABILITIES AND ADVANCED TECHNIQUES (9 Hours)

Crafting Effective Reports, Severity Assessment, Bypassing Security Controls, Specialized Bug Hunting, Responsible Disclosure Policies: Coordinating with organizations for ethical reporting.

TOTAL PERIODS 30

COURSE OUTCOMES

At the end of this course, students will be able to:

- Differentiate various types of vulnerabilities and understand their underlying mechanisms.
- Utilize tools and techniques for effective reconnaissance and vulnerability exploitation in bug bounty programs.
- Interpret the concepts of ethical hacking and apply them to secure web applications, networks, and mobile platforms.

TEXT BOOKS

1. Vickie Li, "Bug Bounty Bootcamp: The Guide to Finding and Reporting Web Vulnerabilities," 2021.

REFERENCES

1. Peter Yaworski, "Web Hacking 101: How to Make Money Hacking Ethically," Leanpub, 2019.

PAAVAI ENGIEERING COLLEGE

(Autonomous)

DEPARTMENT OF CYBER SECURITY

Academic Year: 2023-2024

VALUE ADDED COURSE

ATTENDANCE SHEET

Year/Semester : IV/VII

Name of the Course: 20CYVC701 - BUG BOUNTY

S. No	Register Number	Student Name	12.09.23	13.09.23	14.09.23	15.09.23	16.09.23
1	20111001	ABILASH.M	1	1	1	1	1
2	20111002	ADHITHYA G KRISHNA	1	1	1	1	1
3	20111003	ADHITHYA.T	1	1	AB	1	1
4	20111005	AKCHAYA.B	1	1	1	1	1
5	20111006	ANISTO MEJIN.A	1	1	1	1	1
6	20111008	BARATHINIKESHAN.S	1	1	1	1	1
7	20111009	BEN GARRY	1	1	1	AB	1
8	20111010	BHARATH KUMAR.G	1	1	1	1	1
9	20111011	DHARNESH.L	1	1	1	1	1
10	20111012	DHARSHINI.S.R	AB	1	1	1	1
11	20111013	DHINESH.M	1	1	1	1	1
12	20111014	GOPIKRISHNAN.S	1	1	1	1	1
13	20111015	HARIDHARAN.A	1	1	1	1	1
14	20111016	HARIHARAN.R	1	AB	1	1	AB
15	20111017	HARIHARAN.S.B	1	1	1	1	1
16	20111018	HARIHARAN.S.B	1	1	1	1	1
17	20111020	HARISH JAYARAJ.B	1	1	AB	1	1
18	20111021	JEYASENAADHI.J	1	1	1	1	1
19	20111022	KABILAN.S	1	1	1	1	1
20	20111023	KAPILSURYA.R	AB	1	1	1	1
21	20111024	KAVIYARAJ.S.S	1	1	1	1	1
22	20111025	KAVIYARASU.G	1	1	1	1	1

23	20111026	KIRUTHIKA.Y	1	1	1	1	1
24	20111027	KOWSHIK.E	1	1	1	1	1
25	20111028	KUBENDIRAN.E	1	1	1	1	1
26	20111029	MANIKANDAN.N	1	1	1	1	1
27	20111030	MANOJ.K	AB	1	1	1	1
28	20111031	MOHAMMED AZARUDEEN.N	1	1	1	1	AB
29	20111032	MOHANRAJ.M	1	1	1	1	1
30	20111033	MONISHKANNA.R	1	1	1	1	1
31	20111034	MUKESH.M	1	1	1	1	1
32	20111035	PARAMANANTHAN.N	1	AB	1	1	1
33	20111036	PRABHAKARAN.S	1	1	1	1	1
34	20111037	PRAVEENRAJ.E	1	1	1	1	1
35	20111038	PRAVEENA.S	1	1	AB	1	1
36	20111039	RAHUL.P	1	1	1	1	1
37	20111040	RAVINDHAR.V	1	1	1	1	1
38	20111041	RITHICK.S	1	1	1	AB	1
39	20111042	SANJIKUMAR.B	1	1	1	1	1
40	20111043	SANJAYKUMAR.S	1	1	1	1	1
41	20111044	SANJAY.V	1	1	1	1	1
42	20111046	SARAVANA KUMAR.U	1	1	1	1	1
43	20111047	SATHEES KUMAR.M	AB	AB	AB	AB	AB
44	20111048	SATHISH.B	1	1	1	1	1
45	20111049	SELVARASU.S	1	1	1	1	1
46	20111050	SHAJAN.M	1	1	1	1	1
47	20111051	SHANMUGAM.V	1	1	1	1	1
48	20111052	SIVARAMAKRISHNAN.D	1	1	1	1	1
49	20111053	SOWMYA.V.M	1	1	1	1	1
50	20111054	SREETHER.R	1	1	1	1	1
51	20111055	SUCHIMITHA.D	AB	AB	AB	AB	AB

52	20111056	SUDHARSAN.K	1	1	1	AB	1
53	20111057	SURESH.S	1	1	1	1	1
54	20111058	SURYAPRAKASH.S	1	1	1	1	AB
55	20111059	THIRUPATHI.R	1	1	1	1	1
56	20111060	VENKATESWARAN.G	1	1	AB	1	1
57	20111061	VIGNESH.K	1	1	1	1	1
58	20111062	YASHIKA.C	1	1	AB	1	1
59	20111063	YOGARISHA.M	1	1	1	1	1
60	20111301	MOHAMMED SIDDIQ.R	1	1	AB	1	1

R. Wyla

Course Coordinator

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Cyber Security

CERTIFICATE

This is to Certify that

ADHITHYA G KRISHNA

of Paavai Engineering College, studying in Final Year has successfully completed the Value-added Course “Bug Bounty”. The duration of the course is 30 hours

(12/09/2023 to 16/09/2023)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Cyber Security

CERTIFICATE

This is to Certify that

BARATHINIKESHAN.S

of Paavai Engineering College, studying in Final Year has successfully completed the Value-added Course “Bug Bounty”. The duration of the course is 30 hours (12/09/2023 to 16/09/2023)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Cyber Security

CERTIFICATE

This is to Certify that

GOPIKRISHNAN.S

of Paavai Engineering College, studying in Final Year has successfully completed the Value-added Course “Bug Bounty”. The duration of the course is 30 hours

(12/09/2023 to 16/09/2023)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Cyber Security

CERTIFICATE

This is to Certify that

YOGARISHA.M

of Paavai Engineering College, studying in Final Year has successfully completed the Value-added Course “Bug Bounty”. The duration of the course is 30 hours

(12/09/2023 to 16/09/2023)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Cyber Security

CERTIFICATE

This is to Certify that

SOWMYA.V.M

of Paavai Engineering College, studying in Final Year has successfully completed the Value-added Course “Bug Bounty”. The duration of the course is 30 hours

(12/09/2023 to 16/09/2023)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)

NAMAKKAL - 637 018

DEPARTMENT OF CYBER SECURITY

DATE: 09.03.2024

CIRCULAR

It is planned to conduct Five Days Value Added Course on **"DATA ANALYTICS WITH R"** for Fourth semester students from 18.03.24 to 22.03.24.The interested students are asked to enroll their names to the course coordinator S.GOMATHI, AP/CYS on or before 17.03.24.

Course Coordinators: S.GOMATHI, AP/CYS

HOD/CYS

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PAAVAI ENGIEERING COLLEGE

(Autonomous)

DEPARTMENT OF CYBER SECURITY

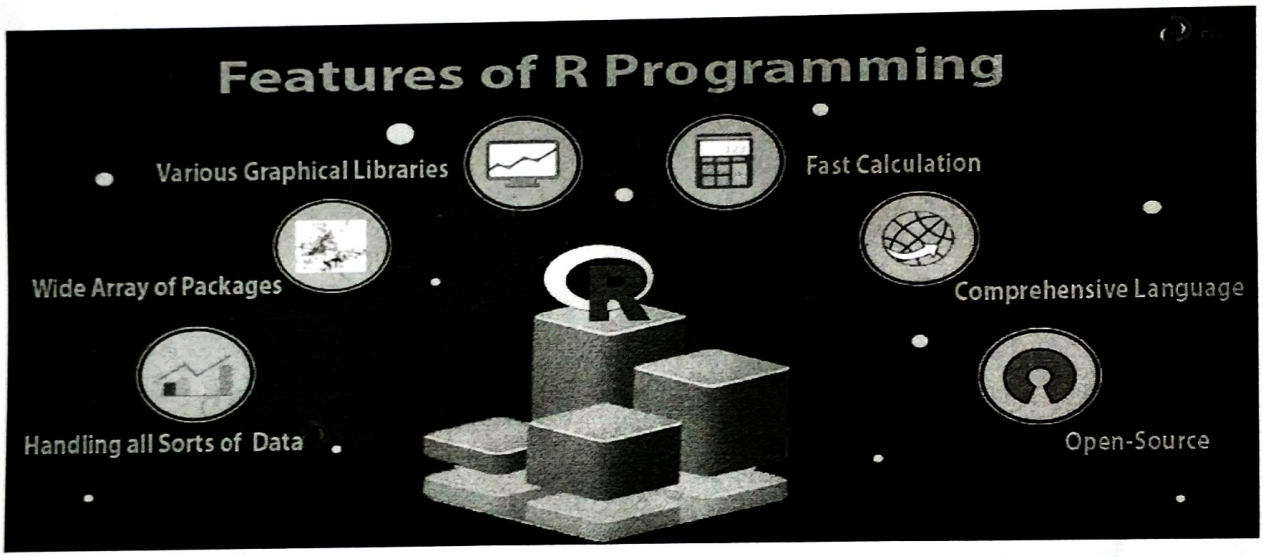
Value Added Course

ON

20CYVC401 - DATA ANALYTICS WITH R

ABOUT THE COURSE:

R analytics is data analytics using R programming language, an open-source language used for statistical computing or graphics. This programming language is often used in statistical analysis and data mining. It can be used for analytics to identify patterns and build practical models.



INTENDED AUDIENCE:

- II Year of B.E, B. Tech – Students
- Students able to apply a variety of techniques to solve problems in areas such as Data Analytics and R.

Date: 18.03.24 to 22.03.24

Venue: Class Room No AB 301

Course Coordinator:

S. GOMATHI, AP/ CYS

PAAVAI ENGIEERING COLLEGE

(Autonomous)

DEPARTMENT OF CYBER SECURITY

DATA ANALYTICS WITH R

20CYVC401

COURSE OBJECTIVES

To enable the students to

- understand about basic concept data Analytics
- integrate R in a Hadoop platform
- write R codes to manipulate data

Module 1 - Introduction to Data Analysis

Overview of Data Analytics, Need of Data Analytics, Nature of Data, Classification of Data: Structured, Semi-Structured, Unstructured, Characteristics of Data, Applications of Data Analytics.

Module 2 - R Programming Basics

Overview of R programming, Environment setup with R Studio, R Commands, Variables and Data Types, Control Structures, Array, Matrix, Vectors, Factors, Functions, R packages.

Module 3 - Data Visualization using R

Reading and getting data into R (External Data): Using CSV files, XML files, Web Data, JSON files, Databases, Excel files. Working with R Charts and Graphs: Histograms, Boxplots, Bar Charts, Line Graphs, Scatterplots, Pie Charts.

TOTAL PERIODS 30

COURSE OUTCOMES

At the end this course, students will be able to

- analyze basic concept data Analytics
- demonstrate R in a Hadoop platform
- implement R codes to manipulate data

TEXT BOOKS

1. R for data science: Import, Tidy, Transform, Visualize, And Model Data Paperback – 20 January 2017.

REFERENCES

1. The Art of R Programming: A Tour of Statistical Software Design Paperback – 11 October 2011

PAAVAI ENGIEERING COLLEGE

(Autonomous)

DEPARTMENT OF CYBER SECURITY

Academic Year: 2023-2024

VALUE ADDED COURSE

ATTENDANCE SHEET

Year/Semester : II/IV

Name of the Course: 20CYVC401- Data Analytics with R

S. No	Register Number	Student Name	18.03.24	19.03.24	20.03.24	21.03.24	22.03.24
1	622122111002	AASHIK.N	1	1	1	1	1
2	622122111003	ABHIMANYU.C	1	1	1	1	1
3	622122111004	ABISHEK.G	1	1	1	1	1
4	622122111005	AJMAL THAHSEEN.A	1	1	1	1	1
5	622122111006	ALDAN JERI.M	1	AB	1	1	1
6	622122111007	AMALRAJ.M.O	1	1	1	1	1
7	622122111008	ANANDHA KUMAR.V	1	1	1	AB	1
8	622122111009	ANTONY WILSON.S	1	1	1	1	1
9	622122111010	ANU RAGEE.K	1	1	1	1	1
10	622122111011	ANUSHIYA.G.M	1	1	1	1	1
11	622122111012	ARASU.R	1	1	1	1	AB
12	622122111013	ARAVIND.N	1	1	1	1	1
13	622122111014	ARAVINDH.S	1	1	AB	1	1
14	622122111015	AROKIYA RAJ.J	1	1	1	1	1
15	622122111016	AVINESH.R	1	1	1	1	1
16	622122111017	AYATHULLA.N	1	1	1	1	1
17	622122111018	BALAJI SANJAY.A	AB	1	1	1	1
18	622122111019	BALAMURUGAN.S	1	1	1	1	1
19	622122111020	BANU.S	1	1	1	1	1
20	622122111021	BARANINISHANTH.P	1	AB	1	1	1
21	622122111022	BARANITHARAN.V	1	1	1	1	1

22	622122111023	BERLIN JAISH.M	1	1	1	1	1
23	622122111024	BHARATH.M	1	1	1	1	1
24	622122111026	CHANDRU.K	1	1	1	1	1
25	622122111027	CHEEMALADINNE LAKSHMIVARDHAN	AB	1	1	1	1
26	622122111028	CHENNAKESAVAN.M	1	1	1	1	1
27	622122111029	CHITTURI NAVINEETH	AB	AB	AB	AB	AB
28	622122111030	DEVADHARSHINI.S	1	1	1	1	1
29	622122111032	DHANUSH.M	1	1	1	1	1
30	622122111033	DHANUSHKUMAR.M	1	1	1	1	1
31	622122111034	DHARSHANA.R	1	1	1	1	1
32	622122111036	DIWAHAR.V	1	1	1	1	AB
33	622122111037	EZHILARASAN.A	1	1	1	1	1
34	622122111038	GANAPATHI.M	1	AB	1	1	1
35	622122111039	GOKUL.K	1	1	1	1	1
36	622122111040	GOKULRAJ.M	1	1	1	1	1
37	622122111041	GOWDHAM.A	1	1	1	1	1
38	622122111043	GOWTHAMAN.V	1	1	1	1	1
39	622122111044	GUNDALA VENKATESWARLU	AB	1	1	1	1
40	622122111045	GUNTUPALLI MANOJ	1	1	1	1	1
41	622122111046	GURU PRASATH.B	1	1	1	1	1
42	622122111047	GURUKISHORE.T	1	1	1	1	1
43	622122111048	HANSIKA.K	1	1	AB	1	1
44	622122111049	HARIHARAN.R.S	1	1	1	1	1
45	622122111050	HARIKARAN.V	1	1	1	1	1
46	622122111051	HEMA DINESH.V	1	1	1	1	1
47	622122111052	JANA.V	1	1	1	1	1
48	622122111053	JAYSANKAR.P	1	AB	1	1	1
49	622122111054	JOHN.P.M	1	1	1	1	1
50	622122111055	KALIRAJ.M	1	1	1	1	1

51	622122111056	KARTHIK SANKKAR.V.B	/	/	/	/	/
52	622122111057	KARTHIKA.P	/	/	/	/	/
53	622122111058	KARTHIKEYAN.V	/	/	/	/	/
54	622122111059	KAVIYARASU.R	/	/	/	/	/
55	622122111060	KISHORE.M	/	/	/	/	/
56	622122111061	KISHORE.S	/	AB	/	/	/
57	622122111062	KODAVALI DAVID RAJ	AB	/	/	/	/
58	622122111301	ANTONY GABRIEL.A	/	/	/	/	/
59	622122111302	GOKULAKANNAN.R	/	/	/	/	/
60	622122111303	PRABHU.B	/	/	/	/	/
61	622122111063	KORIMELLA ARAVIND	/	AB	/	/	/
62	622122111064	KORRAPATI TEJA SWAROOP	/	/	AB	/	/
63	622122111065	KOTU ASHOK KUMAR	/	AB	/	AB	/
64	622122111066	KUDUMALA NAVEEN KUMAR	/	/	/	/	AB
65	622122111067	LETHISH KUMAR.T	/	/	/	/	/
66	622122111068	LOKESH.G	/	/	/	/	/
67	622122111069	LOKESH.S	/	/	/	/	/
68	622122111070	MADHAN.K	/	/	/	/	/
69	622122111071	MAHESWARAN.A	/	/	/	/	/
70	622122111072	MANIKANDAN.A	/	/	/	/	/
71	622122111073	MANOJ KUMAR.S	/	/	/	/	/
72	622122111074	MOHAMED AADHIL.A	/	/	/	/	AB
73	622122111075	MOHAMED IBRAHIM.H	/	AB	/	/	/
74	622122111076	MOHAN.M	/	/	/	/	/
75	622122111077	MONASH.G	/	/	/	/	/

76	622122111078	MYNAM RAJA SEKHAR	1	1	1	1	1
77	622122111079	NANDHAKUMAR.K	1	1	1	1	1
78	622122111080	NANTHEES.O.R	1	1	1	1	1
79	622122111081	NAVEENKUMAR.S	1	1	1	1	1
80	622122111082	PARTHASARATHY.S	1	1	1	1	1
81	622122111083	PITTALA VASU	1	AB	1	1	AB
82	622122111084	PONNARASU.M	1	1	1	1	1
83	622122111085	POOJA.A.M	1	1	1	1	1
84	622122111087	PRITHIKA.R	1	1	1	1	1
85	622122111088	RAGUL.R	1	1	1	1	1
86	622122111089	RAMANA.B	1	1	1	1	AB
87	622122111090	ROHITH.P	1	1	1	1	1
88	622122111091	SAJITH.S	1	1	1	AB	1
89	622122111092	SAKTHIVEL.S	1	1	1	1	1
90	622122111093	SAMUEL.R	1	1	1	1	1
91	622122111096	SENTHAMARAI KANNAN.S	1	1	1	1	1
92	622122111097	SETHU RAJA.R	1	1	1	1	1
93	622122111098	SHALINI.N	1	1	1	1	1
94	622122111099	SHEETHAL.J	1	1	1	1	1
95	622122111100	SIDDHARTHAN.N	1	1	AB	1	1
96	622122111101	SUDHARSAN.K	1	1	1	1	1
97	622122111102	SUDHARSAN.S	1	AB	1	1	1
98	622122111103	SUGANTHAN.T	1	1	1	1	1
99	622122111104	SUMAN.K	1	1	1	AB	1
100	622122111105	SUNIL.S	AB	1	1	1	1
101	622122111106	SURYAGANDHAN.S.V	1	1	1	1	1
102	622122111107	SWATHY.S	1	1	1	1	1
103	622122111108	TAMILARASAN.S	1	AB	1	1	AB
104	622122111109	THARUNKUMAR.M	1	1	1	1	1

105	622122111110	THIPPIREEDY RAJASEKHAR REDDY	-	-	-	-	-
106	622122111111	THIRUMOORTHI.C	1	1	1	1	1
107	622122111112	UVARAJKUMAR.S	1	1	1	1	1
108	622122111113	VAISHAK.S	AB	1	1	1	1
109	622122111114	VANAMA JASWANTH RAO	1	1	1	AB	1
110	622122111115	VASANTHAN.J	1	1	1	1	1
111	622122111116	VENNAPUSA SUDHARANI	1	1	1	1	1
112	622122111117	VIGNESH REDDY.S	1	AB	1	1	1
113	622122111118	VINOTH.C	1	1	1	1	1
114	622122111119	VISHVABHARATHI.A	1	1	1	1	1
115	622122111120	YASWANTH ANIL MANGADUDDI	1	1	1	1	1
116	622122111121	YUVANESH.S	1	1	1	1	1
117	622122111122	YUVARAJ.A	1	1	1	1	1

S. Geetha

Course Coordinator

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Cyber Security

CERTIFICATE

This is to Certify that

ANTONY WILSON.S

of Paavai Engineering College, studying in Second Year has successfully completed the Value-added Course “Data Analytics with R”. The duration of the course is 30 hours (18/03/2024 to 22/03/2024)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Cyber Security

CERTIFICATE

This is to Certify that

ARASU.R

of Paavai Engineering College, studying in Second Year has successfully completed the Value-added Course “Data Analytics with R”. The duration of the course is 30 hours (18/03/2024 to 22/03/2024)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

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Department of Cyber Security

CERTIFICATE

This is to Certify that

DEVADHARSHINI.S

of Paavai Engineering College, studying in Second Year has successfully completed the Value-added Course “Data Analytics with R”. The duration of the course is 30 hours (18/03/2024 to 22/03/2024)

Course Coordinator	HOD	Principal

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Department of Cyber Security

CERTIFICATE

This is to Certify that

GUNDALA VENKATESWARLU

of Paavai Engineering College, studying in Second Year has successfully completed the Value-added Course “Data Analytics with R”. The duration of the course is 30 hours (18/03/2024 to 22/03/2024)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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Department of Cyber Security

CERTIFICATE

This is to Certify that

PARTHASARATHY.S

of Paavai Engineering College, studying in Second Year has successfully completed the Value-added Course “Data Analytics with R”. The duration of the course is 30 hours (18/03/2024 to 22/03/2024)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)

NAMAKKAL - 637 018

DEPARTMENT OF CYBER SECURITY

DATE: 08.03.2024

CIRCULAR

It is planned to conduct Five Days Value Added Course on "**SECURITY AND PRIVACY IN ONLINE SOCIAL NETWORKS**" for Sixth semester students from 18.03.24 to 22.03.24.The interested students are asked to enroll their names to the course coordinator R.K.POONGODI, AP/CYS on or before 16 .03.24.

Course Coordinators: R.K.POONGODI, AP/CYS

HOD/CYS

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PAAVAI ENGIEERING COLLEGE

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DEPARTMENT OF CYBER SECURITY

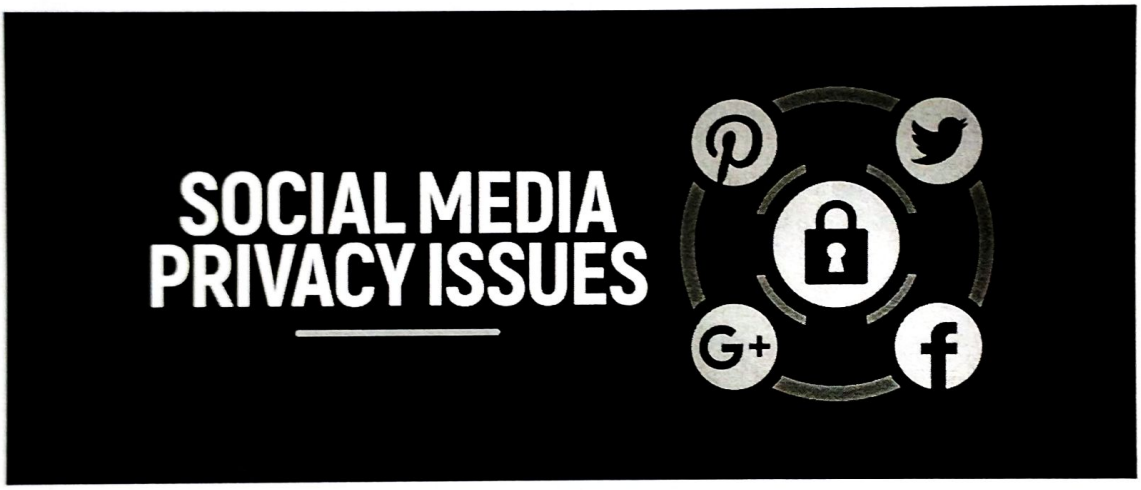
Value Added Course

ON

20CYVC601- SECURITY AND PRIVACY IN ONLINE SOCIAL NETWORKS

ABOUT THE COURSE:

With increase in the usage of the Internet, there has been an exponential increase in the use of online social media and networks on the Internet. Websites like Facebook, YouTube, LinkedIn, Twitter, Flickr, Instagram, Google+, Four Square, Pinterest, Tinder, and the likes have changed the way the Internet is being used. However, widely used, there is a lack of understanding of privacy and security issues on online social media. Privacy and security of online social media need to be investigated, studied and characterized from various perspectives (computational, cultural, psychological, etc.)..



INTENDED AUDIENCE:

- III Year of B.E, B. Tech – Students
- Students able to apply a various privacy techniques and security concerns (spam, phishing, fraud nodes, identity theft) on Online Social Media.

Date: 18.03.24 to 22.03.24

Venue: Class Room No AB303

Course Coordinator:

R.K.POONGODI, AP/CYS

PAAVAI ENGIEERING COLLEGE

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DEPARTMENT OF CYBER SECURITY

SECURITY AND PRIVACY IN ONLINE SOCIAL NETWORKS

20CYVC601

COURSE OBJECTIVES

To enable the students to

- understand the fundamentals of social media.
- collect social media data as a developer.
- learn challenges in social media related to privacy and security.

Module 1 - Introduction to Social Media

Social Media - Introduction; Social Media - User vs Developer's Perspective, Data Collection APIs. Social Media Content Analysis.

Module 2 - Security Issues in Social Media

Overview; Review of Machine Learning; Identity Theft - Profile Cloning, Social Phishing; Fake, Compromised, Sybil accounts and their behavior; Spamming; Rumour or Misinformation; Cyberbullying; Collective Misbehaviors.

Module 3 - Social Media Case Studies

Facebook, Twitter, Instagram, YouTube, LinkedIn, StackOverflow, GitHub, Quora, SnapChat.

TOTAL PERIODS 30

COURSE OUTCOMES

At the end this course, students will be able to

- understand security and privacy challenges in any social media platform.
- develop automated systems to solve security and privacy problems.
- acquire knowledge about social medias.

TEXT BOOKS

1. Zafarani, Reza, Mohammad Ali Abbasi, and Huan Liu. Social media mining: an introduction. Cambridge University Press, 2014.

REFERENCES

1. Bonzanini Marco. Mastering Social Media Mining. Packt Publishing, 2016.

PAAVAI ENGIEERING COLLEGE

(Autonomous)

DEPARTMENT OF CYBER SECURITY

Academic Year: 2023-2024

VALUE ADDED COURSE

ATTENDANCE SHEET

Year/Semester : III/VI

Name of the Course: 20CYVC601- SECURITY AND PRIVACY IN ONLINE SOCIAL NETWORKS

S. No	Register Number	Student Name	18.03.24	19.03.24	20.03.24	21.03.24	22.03.24
1	622121111001	AKASH.K	1	1	1	1	1
2	622121111003	ARULKUMAR. S	1	1	1	1	1
3	622121111004	ARUN R	1	1	1	1	1
4	622121111005	BALA.P	1	AB	1	1	1
5	622121111006	BALAMANIKANDAN M	1	1	1	1	1
6	622121111007	BHARANIDHARAN S	1	1	1	1	1
7	622121111008	BHUVANESHWARAN	1	1	1	AB	1
8	622121111009	DHANUSH.M	1	1	1	1	AB
9	622121111010	DHARANI D	1	1	1	1	1
10	622121111011	DHARMARAJ.D	AB	1	1	1	1
11	622121111012	DHARSINI R	1	1	1	1	1
12	622121111013	DHINAKARAN S	1	1	1	1	1
13	622121111014	DURGADEVI S	1	1	1	1	1
14	622121111015	ELAMPARITHI S	1	1	1	1	1
15	622121111016	GOKUL R	1	1	1	1	1
16	622121111017	GOKULNATH.S	1	1	1	1	1
17	622121111018	GOWTHAM A	1	1	1	1	1
18	622121111019	HARIHARAN S	1	1	1	1	1
19	622121111020	HARIKRISHNAN R	1	1	1	1	1
20	622121111021	JANA.M	1	1	1	1	1

21	622121111022	JAYASRI.S	1	1	AB	1	1
22	622121111023	JEEVANANTHAM M	1	1	1	1	1
23	622121111024	KABILAN K	1	1	1	1	1
24	622121111025	KARTHICK R	1	1	1	1	1
25	622121111026	KESAVAN.T	1	1	1	1	1
26	622121111027	KESHAVAN.T	AB	1	1	1	1
27	622121111028	KUMARESAN L	1	1	1	AB	1
28	622121111029	KUMARJEYANTH K	1	1	1	1	1
29	622121111030	MADHANKUMAR M	1	AB	1	1	1
30	622121111031	MAGIMAI RAJ J	1	1	1	1	1
31	622121111032	MUKESH M	1	1	1	1	1
32	622121111033	MUTHU PANDIYAN.P	1	1	1	1	1
33	622121111034	NANDHAKUMAR B	AB	AB	AB	AB	AB
34	622121111035	NIRANJANI.M	1	1	1	1	1
35	622121111036	NITHIYAN M	1	1	1	1	1
36	622121111037	PASUPATHI.R	1	1	1	1	1
37	622121111038	PAVINATH E	1	1	1	1	1
38	622121111039	POOBALAN M	1	AB	1	1	AB
39	622121111040	PRASANTH.S	1	1	1	1	1
40	622121111041	PRAVEENKUMAR A	1	1	1	1	1
41	622121111043	RAJA.S	1	1	1	1	1
42	622121111044	RAJAMOHAN R	1	1	1	1	1
43	622121111045	RANJITH.B	1	1	1	1	1
44	622121111046	ROHIT.K	1	1	1	1	1
45	622121111048	S.SABHAREESH	1	1	1	1	1
46	622121111047	SABARISHAN P	1	1	1	1	1
47	622121111049	SAKTHI.K	1	AB	1	1	1
48	622121111050	SALMANKHAN K	1	1	1	1	1
49	622121111051	SANGAMITHRAN	1	1	1	1	1
50	622121111052	SANJAY.P	1	1	1	1	1

51	622121111053	SANTHOSHKUMAR M	1	1	1	1	1
52	622121111054	SARANRAJ K	AB	AB	AB	AB	AB
53	622121111055	SATHISH KUMAR V	1	1	1	1	1
54	622121111056	SRI CIBI . S	1	1	1	1	1
55	622121111058	SRI PRASANNA S	1	1	1	1	1
56	622121111057	SRI SARAN.S	1	1	1	1	1
57	622121111059	SUSHMITHA.K	1	1	1	1	1
58	622121111061	THARNEESH.S.R	AB	1	1	1	1
59	622121111062	THIVAGAR A P	1	1	1	1	1
60	622121111063	VINOTH KUMAR M	1	1	AB	1	1
61	622121111301	GOKUL B	1	1	1	1	1

Course Coordinator

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Cyber Security

CERTIFICATE

This is to Certify that

HARIHARAN S

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course “SECURITY AND PRIVACY IN ONLINE SOCIAL NETWORKS”. The duration of the course is 30 hours (18/03/2024 to 22/03/2024)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Cyber Security

CERTIFICATE

This is to Certify that

HARIKRISHNAN R

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course “SECURITY AND PRIVACY IN ONLINE SOCIAL NETWORKS”. The duration of the course is 30 hours (18/03/2024 to 22/03/2024)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Cyber Security

CERTIFICATE

This is to Certify that

JANA.M

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course “SECURITY AND PRIVACY IN ONLINE SOCIAL NETWORKS”. The duration of the course is 30 hours (18/03/2024 to 22/03/2024)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Cyber Security

CERTIFICATE

This is to Certify that

SALMANKHAN K

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course “SECURITY AND PRIVACY IN ONLINE SOCIAL NETWORKS”. The duration of the course is 30 hours (18/03/2024 to 22/03/2024)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Cyber Security

CERTIFICATE

This is to Certify that

PRAVEENKUMAR A

of Paavai Engineering College, studying in Third Year has successfully completed the Value-added Course “SECURITY AND PRIVACY IN ONLINE SOCIAL NETWORKS”. The duration of the course is 30 hours (18/03/2024 to 22/03/2024)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)

NAMAKKAL - 637 018

DEPARTMENT OF CYBER SECURITY

DATE: 09.3.2024

CIRCULAR

It is planned to conduct Five Days Value Added Course on **FUNDAMENTALS OF GIT AND GITUP** for Eighth semester students from 18.03.24 to 22.03.24.The interested students are asked to enroll their names to the course coordinator S. Ramya, AP/CYS on or before 17.03.24.

Course Coordinators: S. RAMYA, AP/CYS

HOD/CYS

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PAAVAI ENGIEERING COLLEGE

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DEPARTMENT OF CYBER SECURITY

Value Added Course

ON

20CYVC801 - FUNDAMENTALS OF GIT AND GITUP

ABOUT THE COURSE:

Git and GitHub Fundamentals is a course designed to teach the essentials of version control and collaborative coding. Git is an open-source distributed version control system widely used for tracking changes in code, while GitHub is a platform that leverages Git for team collaboration and project management. This course covers the fundamental concepts of managing repositories, tracking changes, and collaborating on projects. By using Git and GitHub, developers can efficiently handle code versions, resolve conflicts, and work seamlessly in team environments.

INTENDED AUDIENCE:

- IV Year of B.E, B. Tech – Students
- Students will be able to apply a variety of Git techniques to solve problems in areas such as version control, collaborative coding, and project management.

Date: 18.03.24 to 22.03.24

Venue: Class Room No AB301

Course Coordinator:

S.RAMYA, AP/ CYS

PAAVAI ENGIEERING COLLEGE

(Autonomous)

DEPARTMENT OF CYBER SECURITY

FUNDAMENTALS OF GIT AND GITUP

20CYVC801

COURSE OBJECTIVES

To enable the students to:

- Understand the basic concepts of version control systems.
- Learn the fundamentals of Git for managing and tracking code changes effectively.
- Integrate GitHub as a collaborative platform for version control and project management.

UNIT I - INTRODUCTION TO VERSION CONTROL AND GIT

Version Control Basics, Types of Version Control Systems, Introduction to Git, Core Git Concepts, Setting Up Git: Configuration, SSH keys, and global settings.

UNIT II - WORKING WITH GIT

Repository Management, Staging and Committing, Branching and Merging, Undoing Changes, Collaborating with Git: Fetch, pull, push, and working with remotes.

UNIT III - INTRODUCTION TO GITUP AND GUI TOOLS

GitUp Overview, GitUp Interface, Using GitUp for Git Operations, Comparison of GitUp with Other GUI Tools, When to Use GUI Tools.

TOTAL PERIODS 30

COURSE OUTCOMES

At the end of this course, students will be able to:

- Analyze the fundamental concepts of Git and version control.
- Demonstrate proficiency in using Git for managing repositories and tracking code changes.
- Implement Git commands to create, manage, and collaborate on projects using GitHub.

TEXT BOOKS

1. Scott Chacon and Ben Straub, "Pro Git," Apress, 2nd Edition,2022.

REFERENCES

1. Ryan Hodson, "Ry's Git Tutorial," Leanpub, 2019.

PAAVAI ENGIEERING COLLEGE

(Autonomous)

DEPARTMENT OF CYBER SECURITY

Academic Year: 2023-2024

VALUE ADDED COURSE

ATTENDANCE SHEET

Year/Semester : IV/VIII

Name of the Course: 20CYVC801 - FUNDAMENTALS OF GIT AND GITUP

S. No	Register Number	Student Name	18.03.24	19.03.24	20.03.24	21.03.24	22.03.24
1	20111001	ABILASH.M	AB	AB	AB	AB	AB
2	20111002	ADHITHYA G KRISHNA	1	1	1	1	1
3	20111003	ADHITHYA.T	1	1	1	1	1
4	20111005	AKCHAYA.B	1	1	1	1	1
5	20111006	ANISTO MEJIN.A	1	1	1	1	1
6	20111008	BARATHINIKESHAN.S	1	1	1	1	1
7	20111009	BEN GARRY	AB	AB	AB	AB	AB
8	20111010	BHARATH KUMAR.G	1	1	1	1	1
9	20111011	DHARNESH.L	1	1	1	1	1
10	20111013	DHINESH.M	1	1	AB	1	1
11	20111014	GOPIKRISHNAN.S	1	1	1	1	1
12	20111015	HARIDHARAN.A	AB	1	1	1	1
13	20111016	HARIHARAN.R	1	1	1	1	AB
14	20111017	HARIHARAN.S.B	1	1	1	1	1
15	20111018	HARIHARAN.S.B	1	1	1	1	1
16	20111020	HARISH JAYARAJ.B	1	1	1	AB	1
17	20111021	JEYASENAADHI.J	1	1	1	1	1
18	20111022	KABILAN.S	1	1	1	1	1
19	20111023	KAPILSURYA.R	1	1	1	1	1

20	20111024	KAVIYARAJ.S.S	AB	1	1	1	1
21	20111025	KAVIYARASU.G	1	1	1	1	1
22	20111026	KIRUTHIKA.Y	1	1	1	1	1
23	20111027	KOWSHIK.E	1	1	1	1	1
24	20111028	KUBENDIRAN.E	1	1	1	1	1
25	20111029	MANIKANDAN.N	1	1	1	1	AB
26	20111030	MANOJ.K	1	1	1	1	1
27	20111031	MOHAMMED AZARUDEEN.N	1	1	AB	1	1
28	20111032	MOHANRAJ.M	1	AB	1	1	1
29	20111033	MONISHKANNA.R	1	1	1	1	1
30	20111034	MUKESH.M	1	1	1	1	1
31	20111035	PARAMANANTHAN.N	1	1	1	1	1
32	20111036	PRABHAKARAN.S	1	1	1	1	1
33	20111037	PRAVEENRAJ.E	1	1	1	1	1
34	20111038	PRAVEENA.S	1	1	1	1	1
35	20111039	RAHUL.P	1	1	1	1	1
36	20111040	RAVINDHAR.V	1	1	1	AB	1
37	20111041	RITHICK.S	1	1	1	1	1
38	20111042	SANJIKUMAR.B	1	1	1	1	1
39	20111043	SANJAYKUMAR.S	1	1	1	1	1
40	20111044	SANJAY.V	AB	1	1	1	1
41	20111046	SARAVANA KUMAR.U	1	1	1	1	AB
42	20111047	SATHEES KUMAR.M	1	1	1	1	1
43	20111048	SATHISH.B	1	1	1	1	1
44	20111049	SELVARASU.S	1	1	1	1	1
45	20111050	SHAJAN.M	1	1	1	1	1
46	20111051	SHANMUGAM.V	1	1	1	1	1
47	20111052	SIVARAMAKRISHNAN.D	1	1	1	AB	1
48	20111053	SOWMYA.V.M	1	1	1	1	1

49	20111054	SREETHER.R	1	1	1	1	1
50	20111055	SUCHIMITHA.D	1	1	1	1	1
51	20111056	SUDHARSAN.K	1	1	1	1	1
52	20111057	SURESH.S	1	1	1	1	1
53	20111058	SURYAPRAKASH.S	1	1	1	1	1
54	20111059	THIRUPATHI.R	1	1	1	AB	1
55	20111060	VENKATESWARAN.G	1	AB	1	1	1
56	20111061	VIGNESH.K	1	1	AB	1	1
57	20111062	YASHIKA.C	1	1	1	1	1
58	20111063	YOGARISHA.M	1	1	1	1	1
59	20111301	MOHAMMED SIDDIQ.R	1	1	1	1	AB
60	20111302	SARANKUMAR.R	AB	1	1	1	1

Course Coordinator

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Cyber Security

CERTIFICATE

This is to Certify that

AKCHAYA.B

of Paavai Engineering College, studying in Final Year has successfully completed the Value-added Course “Fundamentals of Git and GitUp”. The duration of the course is 30 hours (18/03/2024 to 22/03/2024)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Cyber Security

CERTIFICATE

This is to Certify that

KAPILSURYA.R

of Paavai Engineering College, studying in Final Year has successfully completed the Value-added Course “Fundamentals of Git and GitUp”. The duration of the course is 30 hours (18/03/2024 to 22/03/2024)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Cyber Security

CERTIFICATE

This is to Certify that

KUBENDIRAN.E

of Paavai Engineering College, studying in Final Year has successfully completed the Value-added Course “Fundamentals of Git and GitUp”. The duration of the course is 30 hours (18/03/2024 to 22/03/2024)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Cyber Security

CERTIFICATE

This is to Certify that

PARAMANANTHAN.N

of Paavai Engineering College, studying in Final Year has successfully completed the Value-added Course “Fundamentals of Git and GitUp”. The duration of the course is 30 hours (18/03/2024 to 22/03/2024)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Cyber Security

CERTIFICATE

This is to Certify that

RAHUL.P

of Paavai Engineering College, studying in Final Year has successfully completed the Value-added Course “Fundamentals of Git and GitUp”. The duration of the course is 30 hours (18/03/2024 to 22/03/2024)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)
NAMAKKAL

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
&
ENERGY CLUB

DATE : 2.09.2023

CIRCULAR

It is planned to conduct Five Days Value Added Course on **"INDUSTRIAL CONTROL ELECTRONICS "** for third semester students from 12.09.2023 to 16.09.2023.The interested UG and PG students are asked to enroll their names to the course coordinator Mr.M.Raja AP/EEE on or before 08.09.2023.

Course Co-coordinator: Mr.M.Raja AP/EEE

HOD/EEE
Dr. G. BALAJI, M.E., Ph.D.,
Professor & HOD
Department of Electrical and Electronics Engineering
Paavai Engineering College
Namakkal - 637 018.

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PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)

NAMAKKAL -637 018

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

&

ENERGY CLUB

VALUE ADDED COURSE

FOR

ADDITIONAL SKILL DEVELOPMENT OF THE STUDENTS

(UG &PG)

INDUSTRIAL CONTROL ELECTRONICS

COURSE CONTENT:

Fundamentals of Electronics
Electronic Circuit Design
Industrial Instrumentation
Automation and Control Systems
Microprocessors and Microcontrollers
Power Electronics
Electrical Machines
Industrial Safety and Maintenance

Course Duration: 12.09.2023 to 16.09.2023

Course Coordinator: Mr.M.Raja AP/EEE

23EEVC301 INDUSTRIAL CONTROL ELECTRONICS

COURSE OBJECTIVES

To enable the students to

- Understand the concept of I/O devices
- Acquaire knowledge on sensors and devices.
- Gain details about the analog process control.

UNIT I DISCRETE CONTROL INPUTAND OUTPUT DEVICES 10

Introduction to discrete control, Mechanical and Electrical Switch Classifications , Mutually-Activated Electronic Circuit Switches, Mechanically-Activated Electronic Circuit Switches, Discrete Output Devices, Relays, Control Diagrams.

UNIT II DISCRETE AUTOMATION SENSORS AND DEVICES 10

Introduction to Electronic Sensors, Non-contact Sensors, Sensor Output Interfaces, Analog Automation Sensors, Sensor Applications and Selection, Integrating Sensors into Power and Control Circuits

UNIT III ANALOG PROCESS CONTROL DEVICES AND SENSORS 10

Process Actuators and Output Devices, Control Valves • Electrical Heating Elements, Control Sensors, Transmitters, and Transducers, Temperature Sensors, Pressure Sensors, Flow Sensors, Level Sensors, Position Sensors

TOTAL PERIODS 30

COURSE OUTCOMES

At the end this course, students will be able to

- Describe the basic implementation of I/O devices
- analyse the sensors.
- demonstrate process control and devices.

TEXT BOOKS

1. S. K. Bhattacharya and S. Chatterjee, "Industrial Electronics &Control", Tata Mc Graw Hill, 2003.

REFERENCES

2. Thomas. E. Kissell, " Industrial Electronics", 2002.

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR 2023-2024
VALUE ADDED COURSE
ATTENDANCE SHEET

YEAR/SEMESTER: II/III
NAME OF THE COURSE: 23EEVC301- INDUSTRIAL CONTROL ELECTRONICS

S.No	Register No	Name of the Student	12.9.23	13.9.23	14.9.23	15.9.23	16.9.23
1	622122106001	ABISHEK.K					
2	622122106002	AJAY.B					
3	622122106003	ARUNPANDIYAN.K					
4	622122106004	BALAJI.R					
5	622122106005	BHUVANRAJ.S					
6	622122106006	BOOJITHKISHORE.M					
7	622122106007	DEVANAND.K.S					
8	622122106008	DEVIBALA.R					
9	622122106009	DHARSHAN.S					
10	622122106010	ELAKYA.R					
11	622122106011	ELUMALAI.R					
12	622122106012	EZILARASU.M.G					
13	622122106013	GHAJENDRAN.S					
14	622122106014	GOPIKA.M					
15	622122106015	GOWTHAM.M					
16	622122106016	GUNALAN.V					
17	622122106017	HARISH.G					
18	622122106018	HARISH RAJ.P					
19	622122106019	HEMA.R					
20	622122106020	ISHAAQ.M					
21	622122106021	ISHWARIYA.T					
22	622122106022	JAYASRI.E	a	a	a	a	a
23	622122106023	JEEVA.D					
24	622122106024	KAVIYA.N					
25	622122106025	KAVIYARASAN.K					
26	622122106026	KIRUTHIKA.C					
27	622122106027	LAKSHMI.M					
28	622122106029	MADHAVAN.G					
29	622122106030	MADHUMIDHA.R					
30	622122106031	MADHUMITHA.S					
31	622122106032	MONISHA.V					
32	622122106033	MONISHA.J					
33	622122106034	MURALIMANOKARAN.S					
34	622122106035	NANCY.D					
35	622122106036	NISHANTHINI.S					
36	622122106037	NITHISHKUMAR.V					
37	622122106038	NIVETHA.R					
38	622122106039	PADMASHARAN.M.S					
39	622122106040	PREMNATH.K	a	a	a	a	a
40	622122106041	PRIYA DHARSHINI.S					
41	622122106042	RAGURAM.P					
42	622122106043	RAVIKUMAR.E					
43	622122106044	RITHIKVARMAN.S.M					
44	622122106045	SABARINATHAN.S					

45	622122106046	SAKTHIVEL.R					
46	622122106047	SASITHAR.S					
47	622122106048	SHALINI.S					
48	622122106049	SIVAMANI.S					
49	622122106050	SIVASAKTHI.T					
50	622122106051	SIVASINI.R					
51	622122106052	SUDHARSAN.K					
52	622122106053	SURYA.S					
53	622122106054	TAMILARASAN.V					
54	622122106055	VAIISHNAVI.S					
55	622122106056	VINAYAGAMURTHI.J					
56	622122106057	YASAR ARAFATH.N					
57	622122106058	YUVANESH.T					
58	622122106301	DHINAKARAN R					
59	622122106302	KERONISHA M					
60	622122106303	MURALIDHARAN K					
61	622122106304	NARESH PANDIYAN P					
62	622122106305	SARAN S					
63	622122106306	SASIPRAKASH A					
64	622122106307	TAMILARASAN R					
65	622122106308	VARUNKUMAR S					
66	622122106309	VIGNESH T					

Course Coordinator

HoD/EEE

Dr. G. BALAJI, M.E., Ph.D.,
Professor & HOD
Department of Electrical and Electronics Engineering
Paavai Engineering College
Namakkal - 637 018.

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Electrical and Electronics Engineering

CERTIFICATE

This is to certify

RAGURAM P

of Paavai Engineering College, studying in **Second Year** has successfully completed the **INDUSTRIAL CONTROL ELECTRONICS** course from **12/09/23** to **16/09/23**.

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Electrical and Electronics Engineering

CERTIFICATE

This is to certify

MONISHA V

of Paavai Engineering College, studying in **Second Year** has successfully completed the **INDUSTRIAL CONTROL ELECTRONICS** course from **12/09/23** to **16/09/23**.

Course Coordinator | HOD | Principal

PAAVAI ENGINEERING COLLEGE

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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Electrical and Electronics Engineering

CERTIFICATE

This is to certify

NISHANTHINI.S

of Paavai Engineering College, studying in **Second Year** has successfully completed the **INDUSTRIAL CONTROL ELECTRONICS** course from **12/09/23** to **16/09/23**.

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Electrical and Electronics Engineering

CERTIFICATE

This is to certify

HARISH. G

of Paavai Engineering College, studying in **Second Year** has successfully completed the **INDUSTRIAL CONTROL ELECTRONICS** course from **12/09/23** to **16/09/23**.

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Electrical and Electronics Engineering

CERTIFICATE

This is to certify

AJAY.B

of Paavai Engineering College, studying in **Second Year** has successfully completed the **INDUSTRIAL CONTROL ELECTRONICS** course from **12/09/23** to **16/09/23**.

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)
NAMAKKAL

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
&
ENERGY CLUB

DATE : 2.03.2024

CIRCULAR

It is planned to conduct Five Days Value Added Course on " **PSIM**" for fourth semester students from 18.03.20224 to 23.03.2024.The interested UG and PG students are asked to enroll their names to the course coordinator Mr. R. Muthukumar AP/EEE on or before 08.03.2024.

Course Co-coordinator: Mr. R. Muthukumar AP/EEE

HOD/EEE

Dr. G. BALAJI, M.E., Ph.D.,
Professor & HOD
Department of Electrical and Electronics Engineering
Paavai Engineering College
Namakkal - 637 018.

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NAMAKKAL -637 018

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

&

ENERGY CLUB

VALUE ADDED COURSE

FOR

ADDITIONAL SKILL DEVELOPMENT OF THE STUDENTS

(UG &PG)

PSIM

COURSE CONTENT:

INSTALLATION, VARIATIONS,EXCEPTIONS, PROCESSOR,EVENTS,TRACING

Course Duration: 18.03.20224 to 22.03.2024

Course Coordinator: Mr. R. Muthukumar AP/EEE

23EEVC401 **PSIM**

COURSE OBJECTIVES

To enable the students to

- Understand the key for PSIM.
- learn PSIM links with software smart control specifically power converter applications.
- Know the closed loop control and digital control.

UNIT I **MODULE I** **10**

Navigate the elements library, Place and manipulate elements in the schematic, Define and setup hotkeys Use a parameter file to define element attributes

UNIT II **MODULE II** **10**

Select the proper timestep, Use "free run mode" and change element attributes during the simulation, Define waveform measurements for analysis, Setup waveform viewer, Add waveforms, Add screens, Save a setup for reuse, Change the y-axis for timing comparison, Use the AC sweep element to perform, determine the open loop transfer function, Analog s-domain sweep

UNIT III **MODULE III** **10**

Closed loop design with SmartCtrl, Use a subcircuit to define a portion of the circuit, AC sweep for digital control, Close loop with digital control, Introduction to PSIM thermal models.

TOTAL PERIODS 30

COURSE OUTCOMES

At the end this course, students will be able to

- describe the key for PSIM.
- elaborate PSIM links with software smart control specifically power converter applications.
- explain the closed loop control and digital control.

TEXT BOOKS

1. Farzin Asadi ,Kei Eguchi, Power Electronics Circuit Analysis with PSIM® (De Gruyter Textbook) September 2021

REFERENCES

1. https://powersimtech.com/wp-content/uploads/2021/01/PSIM-User-Manual.pdf

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR 2023-2024
VALUE ADDED COURSE
ATTENDANCE SHEET

YEAR/SEMESTER: II/IV
NAME OF THE COURSE: 23EEVC401- PSIM

S.No	Register No	Name of the Student	18.3.24	19.3.24	20.3.24	21.3.24	22.3.24
1	622122106001	ABISHEK.K					
2	622122106002	AJAY.B					
3	622122106003	ARUNPANDIYAN.K					
4	622122106004	BALAJI.R					
5	622122106005	BHUVANRAJ.S					
6	622122106006	BOOJITHKISHORE.M					
7	622122106007	DEVANAND.K.S					
8	622122106009	DHARSHAN.S					
9	622122106010	ELAKYA.R	a	a	a	a	a
10	622122106011	ELUMALAI.R					
11	622122106012	EZILARASU.M.G					
12	622122106013	GHAJENDRAN.S					
13	622122106014	GOPIKA.M					
14	622122106015	GOWTHAM.M					
15	622122106016	GUNALAN.V					
16	622122106017	HARISH.G					
17	622122106018	HARISH RAJ.P					
18	622122106019	HEMA.R	a	a	a	a	a
19	622122106020	ISHAAQ.M					
20	622122106021	ISHWARIYA.T					
21	622122106022	JAYASRI.E					
22	622122106023	JEEVA.D					
23	622122106024	KAVIYA.N					
24	622122106025	KAVIYARASAN.K					
25	622122106026	KIRUTHIKA.C					
26	622122106027	LAKSHMI.M					
27	622122106029	MADHAVAN.G	a	a	a	a	a
28	622122106030	MADHUMIDHA.R					
29	622122106031	MADHUMITHA.S					
30	622122106032	MONISHA.V					
31	622122106033	MONISHA.J					
32	622122106034	MURALIMANOKARAN.S					
33	622122106035	NANCY.D					
34	622122106036	NISHANTHINI.S					
35	622122106037	NITHISHKUMAR.V					
36	622122106038	NIVETHA.R					
37	622122106039	PADMASHARAN.M.S					
38	622122106040	PREMNATH.K					
39	622122106041	PRIYA DHARSHINI.S					
40	622122106042	RAGURAM.P					
41	622122106043	RAVIKUMAR.E	a	a	a	a	a
42	622122106044	RITHIKVARMAN.S.M					
43	622122106045	SABARINATHAN.S					
44	622122106046	SAKTHIVEL.R					

45	622121106051	SIVARAMAN.K	1	1	1	1	1
46	622121106053	SOWMIYA.S	1	1	1	1	1
47	622121106055	TAMILSELVAN.K	1	1	1	1	1
48	622121106058	VEERAMANI.V	1	1	1	1	1
49	622121106060	VIGNESH.R	1	1	1	1	1
50	622121106302	DINESH.M	a	a	a	a	a
51	622121106304	MONISH.P	1	1	1	1	1
52	622121106305	NAVEEN KUMAR.P	1	1	1	1	1
53	622121106306	RAGUL.K	a	a	a	a	a
54	622121106701	DEVADHARSHINI S	1	1	1	1	1

Course Coordinator

HoD/EEE

Dr. G. BALAJI, M.E., Ph.D.,
Professor & HOD
Department of Electrical and Electronics Engineering
Paavai Engineering College
Namakkal - 637 018.

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Electrical and Electronics Engineering

CERTIFICATE

This is to certify

SOWMIYA S

of Paavai Engineering College, studying in **Second Year** has successfully completed the **PSIM** course from **18/03/24** to **22/03/24.**.

Course Coordinator | HOD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Electrical and Electronics Engineering

CERTIFICATE

This is to certify

SAKTHIVEL R

of Paavai Engineering College, studying in **Second Year** has successfully completed the **PSIM** course from **18/03/24** to **22/03/24.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Electrical and Electronics Engineering

CERTIFICATE

This is to certify

NANCY D

of Paavai Engineering College, studying in **Second Year** has successfully completed the **PSIM** course from **18/03/24** to **22/03/24**..

Course Coordinator | HOD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Electrical and Electronics Engineering

CERTIFICATE

This is to certify

JEEVA D

of Paavai Engineering College, studying in **Second Year** has successfully completed the **PSIM** course from **18/03/24** to **22/03/24.**.

Course Coordinator | HOD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Electrical and Electronics Engineering

CERTIFICATE

This is to certify

GOPIKA M

of Paavai Engineering College, studying in **Second Year** has successfully completed the **PSIM** course from **18/03/24** to **22/03/24.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)
NAMAKKAL

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
&
ENERGY CLUB

DATE : 2.09.2023

CIRCULAR

It is planned to conduct Five Days Value Added Course on " **FUNDAMENTALS OF MATLAB** " for fifth semester students from 12.09.2023 to 16.09.2023.The interested UG and PG students are asked to enroll their names to the course coordinator Mr.R.Satheeshkumar AP/EEE on or before 08.09.2023.

Course Co-coordinator: Mr.R.Satheeshkumar AP/EEE

HOD/EEE
Dr. G. BALAJI, M.E., Ph.D.,
Professor & HOD
Department of Electrical and Electronics Engineering
Paavai Engineering College
Namakkal - 637 018.

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PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)

NAMAKKAL -637 018

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

&

ENERGY CLUB

VALUE ADDED COURSE

FOR

ADDITIONAL SKILL DEVELOPMENT OF THE STUDENTS

(UG &PG)

FUNDAMENTALS OF MATLAB

Course content

User Interface, variables, commands, matrices, vectors, data, files, data types, scripts, programs, functions

Course Duration: 12.09.2023 to 16.09.2023

Course Coordinator: Mr.R.Satheeshkumar AP/EEE

23EEVC501 **FUNDAMENTALS OF MATLAB**

COURSE OBJECTIVES

To enable the students to

- Familiarization of the syntax, semantics, data-types and library functions of numerical computing languages such as MATLAB.
- Application of such languages for implementation/simulation and visualization of basic mathematical functions relevant to electronics applications.
- acquire knowledge on programming concepts

UNIT I **INTRODUCTION TO MATLAB AND MATLAB SOFTWARE** **10**

Brief Introduction- Installation of MATLAB- Use of MATLAB- Key features- Introduction to MATLAB Software- MATLAB window- Command window- Workspace- Command history- Setting directory- Working with the MATLAB user interface- Basic commands- Assigning variables- Operations with variables- Working with script tools- Writing Script file- The MATLAB Editor.

UNIT II **MATLAB SIMULINK** **10**

Introduction Of Simulink- Simulink Environment & Interface- Study of Library- Circuit Oriented Design- Equation Oriented Design- Model- Subsystem Design- Connect Call back to subsystem- Application

UNIT III **MATLAB PROGRAMMING** **10**

MATLAB Programming- Writing programs with logic and flow control- Writing functions- Control statement Programming- Conditional Statement Programming- Examples.

TOTAL PERIODS **30**

COURSE OUTCOMES

At the end this course, students will be able to

- Understand the need for simulation/implementation for the verification of mathematical functions.
- Understand the main features of the MATLAB program development environment to enable their usage in the higher learning.
- Implement simple mathematical functions/equations in numerical computing environment such as MATLAB

TEXT BOOKS

1.MATLAB and Simulink Based Book, Electrical Engineering: Principles and Applications

REFERENCES

1.MATLAB and Simulink Based Book, Practical Electrical Engineering, 2nd edition

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR 2023-2024
VALUE ADDED COURSE
ATTENDANCE SHEET

YEAR/SEMESTER: III/V
NAME OF THE COURSE: 23EEVC501- FUNDAMENTALS OF MATLAB

S.No	Register No	Name of the Student	12.9.23	13.9.23	14.9.23	15.9.23	16.9.23
1	622121106001	AAKASH.S					
2	622121106002	AKASH.M					
3	622121106003	AMUDHAWAN.S					
4	622121106004	ARUNACHALAM.E					
5	622121106005	BHARATH.M					
6	622121106006	DEEPAKKUMAR.V					
7	622121106007	DHINESH.A					
8	622121106008	DINAKARAN.A					
9	622121106009	EMMAN VEL.G					
10	622121106010	GAYATHRI.R					
11	622121106011	GOKUL.S.S					
12	622121106012	HARIHARAN.V.B					
13	622121106013	HARIHARASUDHAN.S					
14	622121106015	HARISH.S					
15	622121106016	INDHUPRAKASH.R					
16	622121106017	JAGADHEESH.N					
17	622121106018	JANA.T	a	a	a	a	a
18	622121106019	JANANI.R					
19	622121106020	JEGANATHAN.S					
20	622121106021	KABILAN.R					
21	622121106022	KALAIYARASAN.S					
22	622121106023	KALISWARI.M					
23	622121106024	KAMESHKUMAR.R					
24	622121106025	KAVIPRIYA.M					
25	622121106026	KAWIN A V A					
26	622121106027	MARIYAPPAN.S					
27	622121106028	MEYYARASAN.M					
28	622121106030	NATHIYA.S					
29	622121106031	NAVEENKUMAR.S					
30	622121106032	NISANTH ARYHA.S.P					
31	622121106033	NISHA.A					
32	622121106034	NITHISH.R					
33	622121106036	PONNUSAMY R					
34	622121106037	POOJA.N					
35	622121106039	PRASANTH KUMAR.M					
36	622121106040	PRATHAP.E					
37	622121106041	PRAVEEN.S					
38	622121106042	PRAVEENKANTH.R					
39	622121106043	PRIYADHARSHINI.A					
40	622121106044	RAJESHKUMAR.M					
41	622121106046	SANJAY.S					
42	622121106047	SANJEW.R					
43	622121106049	SARAVANAN.M					
44	622121106050	SELVAM.C					

45	622122106047	SASITHAR.S					
46	622122106048	SHALINI.S					
47	622122106049	SIVAMANI.S					
48	622122106050	SIVASAKTHI.T					
49	622122106051	SIVASINI.R					
50	622122106052	SUDHARSAN.K					
51	622122106053	SURYA.S					
52	622122106055	VAIISHNAVI.S					
53	622122106056	VINAYAGAMURTHI.J					
54	622122106057	YASAR ARAFATH.N					
55	622122106301	DHINAKARAN R					
56	622122106302	KERONISHA M					
57	622122106303	MURALIDHARAN K					
58	622122106304	NARESH PANDIYAN P					
59	622122106305	SARAN S					
60	622122106306	SASIPRAKASH A					

Course Coordinator

HoD/EEE

Dr. G. BALAJI, M.E., Ph.D.,
Professor & HOD
Department of Electrical and Electronics Engineering
Paavai Engineering College
Namakkal - 637 018.

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Electrical and Electronics Engineering

CERTIFICATE

This is to certify

PRAVEEN S

of Paavai Engineering College, studying in **Third Year** has successfully completed the **FUNDAMENTALS OF MATLAB** course from **12/09/23** to **16/09/23.**.

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Electrical and Electronics Engineering

CERTIFICATE

This is to certify

SIVARAMAN K

of Paavai Engineering College, studying in **Third Year** has successfully completed the **FUNDAMENTALS OF MATLAB** course from **12/09/23** to **16/09/23.**.

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

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Department of Electrical and Electronics Engineering

CERTIFICATE

This is to certify

NISHA A

of Paavai Engineering College, studying in **Third Year** has successfully completed the **FUNDAMENTALS OF MATLAB** course from **12/09/23** to **16/09/23.**.

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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Department of Electrical and Electronics Engineering

CERTIFICATE

This is to certify

NATHIYA S

of Paavai Engineering College, studying in **Third Year** has successfully completed the **FUNDAMENTALS OF MATLAB** course from **12/09/23** to **16/09/23.**.

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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Department of Electrical and Electronics Engineering

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This is to certify

HARIHARASUDHAN S

of Paavai Engineering College, studying in **Third Year** has successfully completed the **FUNDAMENTALS OF MATLAB** course from **12/09/23** to **16/09/23.**.

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)
NAMAKKAL

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
&
ENERGY CLUB

DATE : 2.03.2024

CIRCULAR

It is planned to conduct Five Days Value Added Course on " **EMBEDDED C FOR ELECTRICAL ENGINEERING** " for sixth semester students from 18.03.20224 to 23.03.2024.The interested UG and PG students are asked to enroll their names to the course coordinator Dr.C.Arulkumar ASP/EEE on or before 08.03.2024.

Course Co-coordinator: Dr.C.Arulkumar ASP/EEE

HOD/EEE
Dr. G. BALAJI, M.E., Ph.D.,
Professor & HOD
Department of Electrical and Electronics Engineering
Paavai Engineering College
Namakkal - 637 018.

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

&

ENERGY CLUB

VALUE ADDED COURSE

FOR

ADDITIONAL SKILL DEVELOPMENT OF THE STUDENTS

(UG &PG)

EMBEDDED C FOR ELECTRICAL ENGINEERING

COURSE CONTENT:

'C' and Embedded-C, Embedded Concepts, Introduction to ARM Cortex, Cortex M4 Microcontrollers & Peripherals

Course Duration: 18.03.20224 to 22.03.2024

Course Coordinator: Dr.C.Arulkumar ASP/EEE

23EEV601 EMBEDDED C FOR ELECTRICAL ENGINEERING

COURSE OBJECTIVES

To enable the students to

- develop the student's knowledge in C and embedded C concepts
- provide the student with knowledge of the ARM cortex
- provide the student with some knowledge and analysis skills associated with microcontrollers

UNIT I C AND EMBEDDED C **10**

Introduction to 'C' programming, Storage Classes, Data Types , Controlling program flow, Arrays, Functions , Memory Management , Pointers , Arrays and Pointers , Pointer to Functions and advanced topics on Pointers , Structures and Unions , Data Structures, Linked List , Stacks, Queues , Conditional Compilation, Pre-processor directives , File operations , Bitwise operations , Typecasting

UNIT II ARM CORTEX **10**

Architecture Introduction to 32-bit Processors , The ARM Architecture , Overview of ARM , Overview of Cortex Architecture , Cortex M4 Register Set and Modes , Cortex M4 Processor Core , Data Path and Instruction Decoding , ARM Cortex M4 Development Environment, Assembler and Compiler , Linkers and Debuggers , ARM-Thumb & Thumb2 instructions, Mixing ARM & Thumb Instructions, Memory hierarchy, Memory Mapping, Cache

UNIT III MICROCONTROLLERS AND PERIPHERALS **10**

Cortex M4 based controller architecture , Memory mapping, Cortex M4 Peripherals – RCC , GPIO , Timer, System timer , UARTs, LCD,ADC & PWM, Cortex M4 interrupt handling – NVIC , Application development with Cortex M4 controllers using standard peripheral libraries

TOTAL PERIODS 30

COURSE OUTCOMES

At the end this course, students will be able to

- explain C and embedded C concepts.
- describe the ARM cortex.
- analyse skills associated with microcontrollers.

TEXT BOOKS

1. Kirk Zurell, Sofie Beerens, C Programming For Embedded Systems, RC Press (March 1, 2000); eBook (R&D Books).

REFERENCES

1. John Iovine, PIC Robotics, McGrawHill, DOI: 10.1036/0071394559.

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR 2023-2024
VALUE ADDED COURSE
ATTENDANCE SHEET

YEAR/SEMESTER: III/VI
NAME OF THE COURSE: 23EEVC601- EMBEDDED C FOR ELECTRICAL ENGINEERING

S.No	Register No	Name of the Student	18.3.24	19.3.24	20.3.24	21.3.24	22.3.24
1	622121106001	AAKASH.S					
2	622121106002	AKASH.M					
3	622121106003	AMUDHAWAN.S					
4	622121106004	ARUNACHALAM.E					
5	622121106005	BHARATH.M					
6	622121106006	DEEPAKKUMAR.V					
7	622121106007	DHINESH.A					
8	622121106008	DINAKARAN.A					
9	622121106009	EMMAN VEL.G					
10	622121106010	GAYATHRI.R					
11	622121106011	GOKUL.S.S					
12	622121106012	HARIHARAN.V.B					
13	622121106013	HARIHARASUDHAN.S					
14	622121106015	HARISH.S	a	a	a	a	a
15	622121106016	INDHUPRAKASH.R					
16	622121106017	JAGADHEESH.N					
17	622121106018	JANA.T					
18	622121106019	JANANI.R					
19	622121106020	JEGANATHAN.S					
20	622121106021	KABILAN.R					
21	622121106022	KALAIYARASAN.S					
22	622121106023	KALISWARI.M					
23	622121106024	KAMESHKUMAR.R					
24	622121106025	KAVIPRIYA.M					
25	622121106026	KAWIN A V A					
26	622121106027	MARIYAPPAN.S					
27	622121106028	MEYYARASAN.M					
28	622121106030	NATHIYA.S					
29	622121106031	NAVEENKUMAR.S					
30	622121106032	NISANTH ARYHA.S.P					
31	622121106033	NISHA.A					
32	622121106034	NITHISH.R					
33	622121106036	PONNUSAMY R					
34	622121106037	POOJA.N					
35	622121106039	PRASANTH KUMAR.M					
36	622121106040	PRATHAP.E					
37	622121106041	PRAVEEN.S					
38	622121106042	PRAVEENKANTH.R					
39	622121106043	PRIYADHARSHINI.A					
40	622121106044	RAJESHKUMAR.M					
41	622121106046	SANJAY.S					
42	622121106047	SANJEW.R					
43	622121106049	SARAVANAN.M					
44	622121106050	SELVAM.C					

45	622121106051	SIVARAMAN.K	/	/	/	/	/
46	622121106053	SOWMIYA.S	/	/	/	/	/
47	622121106055	TAMILSELVAN.K	/	/	/	/	/
48	622121106058	VEERAMANI.V	/	/	/	/	/
49	622121106060	VIGNESH.R	/	/	/	/	/
50	622121106302	DINESH.M	/	/	/	/	/
51	622121106304	MONISH.P	/	/	/	/	/
52	622121106305	NAVEEN KUMAR.P	/	/	/	/	/
53	622121106306	RAGUL.K	/	/	/	/	/
54	622121106701	DEVADHARSHINI S	/	/	/	/	/

Course Coordinator

HoD/EEE

Dr. G. BALAJI, M.E., Ph.D.,
Professor & HOD
Department of Electrical and Electronics Engineering
Paavai Engineering College
Namakkal - 637 018.

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Electrical and Electronics Engineering

CERTIFICATE

This is to certify

SELVAM C

of Paavai Engineering College, studying in **Third Year** has successfully completed the **EMBEDDED C FOR ELECTRICAL ENGINEERING** course from **18/03/24** to **22/03/24.**.

Course Coordinator | HOD | Principal

PAAVAI ENGINEERING COLLEGE

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Department of Electrical and Electronics Engineering

CERTIFICATE

This is to certify

RAJESHKUMAR M

of Paavai Engineering College, studying in **Third Year** has successfully completed the **EMBEDDED C FOR ELECTRICAL ENGINEERING** course from **18/03/24** to **22/03/24.**.

Course Coordinator | HOD | Principal

PAAVAI ENGINEERING COLLEGE

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Department of Electrical and Electronics Engineering

CERTIFICATE

This is to certify

PRATHAP E

of Paavai Engineering College, studying in **Third Year** has successfully completed the **EMBEDDED C FOR ELECTRICAL ENGINEERING** course from **18/03/24** to **22/03/24**..

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Electrical and Electronics Engineering

CERTIFICATE

This is to certify

PONNUSAMY R

of Paavai Engineering College, studying in **Third Year** has successfully completed the **EMBEDDED C FOR ELECTRICAL ENGINEERING** course from **18/03/24** to **22/03/24.**.

Course Coordinator | HOD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Electrical and Electronics Engineering

CERTIFICATE

This is to certify

KAWIN A V A

of Paavai Engineering College, studying in **Third Year** has successfully completed the **EMBEDDED C FOR ELECTRICAL ENGINEERING** course from **18/03/24** to **22/03/24**..

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)
NAMAKKAL

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
&
ENERGY CLUB

DATE : 2.09.2023

CIRCULAR

It is planned to conduct Five Days Value Added Course on " **LIGHTING DESIGN** " for seventh semester students from 12.09.2023 to 16.09.2023.The interested UG and PG students are asked to enroll their names to the course coordinator Mrs.S.Suganya AP/EEE on or before 08.09.2023.

Course Co-coordinator: Mrs.S.Suganya AP/EEE

HOD/EEE

Dr. G. BALAJI, M.E., Ph.D.,
Professor & HOD
Department of Electrical and Electronics Engineering
Paavai Engineering College
Namakkal - 637 018.

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PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)

NAMAKKAL -637 018

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

&

ENERGY CLUB

VALUE ADDED COURSE

FOR

ADDITIONAL SKILL DEVELOPMENT OF THE STUDENTS

(UG &PG)

LIGHTING DESIGN

COURSE CONTENT:

Controllable qualities of light Functions of light Different Design techniques, Photometrics Beam/Field Angle, Headset etiquette

Course Duration: 12.09.2023 to 16.09.2023

Course Coordinator: Mrs.S.Suganya AP/EEE

22EEVC701 **LIGHTING DESIGN**

COURSE OBJECTIVES

To enable the students to

- provide knowledge about lighting requirements
- know about security and privacy exterior lighting
- Understand the application of lighting in medical field.

UNIT I LIGHTING DESIGN REQUIREMENTS **10**

Lighting Design Strategies, Lighting Control Design Methodologies Luminaire Selection Guidelines, Light Source Selection Guidelines, Ballast And Led Driver Selection Guidelines, Lighting Calculations

UNIT II EXTERIOR LIGHTING **10**

Roadways, Open Parking Areas, Walkways, Entries, Landscape, Building Perimeter, Flagpoles

UNIT III PATIENT AREAS LIGHTING **10**

Specialty, diagnostic, and treatment areas, nurse station, patient corridor, patient room

TOTAL PERIODS 30

COURSE OUTCOMES

At the end this course, students will be able to

- explain about requirements of lighting
- describe about the technologies for exterior lighting
- describe the application of lighting for medical.

TEXT BOOKS

1. Mark kerlen, Lighting Design Basics, "*John Wiley and sons.*

REFERENCES

1. Garay Gordon , Interior lighting for designers, *John Wiley and sons.*

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR 2023-2024
VALUE ADDED COURSE
ATTENDANCE SHEET

YEAR/SEMESTER: IV/VII

NAME OF THE COURSE: 23EEVC701- LIGHTING DESIGN

S.No	Register No	Name of the Student	12.9.23	13.9.23	14.9.23	15.9.23	16.9.23
1	20106001	ARUN.A					
2	20106002	ATHIKMOHAMMED.S					
3	20106003	BARANIKARTHICK.T					
4	20106004	BOOBALAN.S					
5	20106005	DHAMOTHARAN.G					
6	20106006	DHATCHANAMOORTHI.V					
7	20106007	DWARAKEESH.N.K					
8	20106008	GOWTHAM.S.N					
9	20106009	INIYAA.M					
10	20106010	KALAISELVAN.P					
11	20106012	KARANKUMAR.S					
12	20106013	KAVINESAN.R					
13	20106014	KAVINTH.S					
14	20106015	KAVIYARASU.C					
15	20106017	KOMARA PRASAD					
16	20106018	LOGANATHAN.T					
17	20106019	MANIKANDAN.B					
18	20106021	MERLIN.J					
19	20106022	NAVEENKUMAR.V					
20	20106023	PARTHIBAN.K					
21	20106024	PRIYADHARSHINI.S					
22	20106025	RAHUL.M					
23	20106026	RAJIDHARAN.M					
24	20106027	RAVIKUMAR.G					
25	20106028	SANJAI.R					
26	20106029	SANJAI.R (D.O.J:05.01.21)					
27	20106030	SANJAIRAJ.A					
28	20106031	SANJAY.S					
29	20106034	SARANKANTH.M					
30	20106035	SHARMILA.S					
31	20106036	SIVARAJ.S					
32	20106037	SRIMANIKANDAN.S					
33	20106038	SRIRAM.J					
34	20106039	SUGANESH.R					
35	20106040	SURENDIRAN.A					
36	20106041	VASANTHAKUMAR.K					
37	20106042	VEERASAMY .K					
38	20106043	VIGNESH.P					
39	20106044	VISWABHARATH.V					
40	20106045	YUVASHREE.S					
41	20106301	ABINATH.S					
42	20106302	AGASH. R					
43	20106304	BASKARAN.S					

44	20106305	BHARATH.R					
45	20106306	DHEENADHAYALAN					
46	20106309	GOVINDHARAJ.P					
47	20106310	GOWSICK RAJ.R					
48	20106311	HARIHARAN. M					
49	20106312	JAGADEESH.S					
50	20106316	MOHAMMED ASIK. A					
51	20106317	MOHANA PRAKASH .P					
52	20106318	PRASANNABALAJI.G					
53	20106320	SABITHA. M					
54	20106322	SRIDHAR.G					
55	20106324	KARTHIKEYAN.S					

Course Coordinator

HoD/EEE

Dr. G. BALAJI, M.E., Ph.D.,
Professor & HOD
Department of Electrical and Electronics Engineering
Paavai Engineering College
Namakkal - 637 018.

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Electrical and Electronics Engineering

CERTIFICATE

This is to certify

RAGUL M

of Paavai Engineering College, studying in **Final Year** has successfully completed the **LIGHTING DESIGN** course from **12/09/23** to **16/09/23.**.

Course Coordinator | HOD | Principal

PAAVAI ENGINEERING COLLEGE

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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Electrical and Electronics Engineering

CERTIFICATE

This is to certify

NAVEENKUMAR V

of Paavai Engineering College, studying in **Final Year** has successfully completed the **LIGHTING DESIGN** course from **12/09/23** to **16/09/23.**.

Course Coordinator | HOD | Principal

PAAVAI ENGINEERING COLLEGE

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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Electrical and Electronics Engineering

CERTIFICATE

This is to certify

MERLIN J

of Paavai Engineering College, studying in **Final Year** has successfully completed the **LIGHTING DESIGN** course from **12/09/23** to **16/09/23.**.

Course Coordinator | HOD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Electrical and Electronics Engineering

CERTIFICATE

This is to certify

KAVINTH S

of Paavai Engineering College, studying in **Final Year** has successfully completed the **LIGHTING DESIGN** course from **12/09/23** to **16/09/23.**.

Course Coordinator | HOD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Electrical and Electronics Engineering

CERTIFICATE

This is to certify

ARUN A

of Paavai Engineering College, studying in **Final Year** has successfully completed the **LIGHTING DESIGN** course from **12/09/23** to **16/09/23.**.

Course Coordinator | HOD | Principal

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)
NAMAKKAL

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

&

ENERGY CLUB

DATE : 2.03.2024

CIRCULAR

It is planned to conduct Five Days Value Added Course on " **DATA ANALYTICS AND MACHINE LEARNING** " for eighth semester students from 18.03.20224 to 23.03.2024.The interested UG and PG students are asked to enroll their names to the course coordinator Dr.A.Rathinam ASP/EEE on or before 08.03.2024.

Course Co-coordinator: Dr.A.Rathinam ASP/EEE

HOD/EEE

Dr. G. BALAJI, M.E., Ph.D.,
Professor & HOD
Department of Electrical and Electronics Engineering
Paavai Engineering College
Namakkal - 637 018.

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PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)

NAMAKKAL -637 018

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

&

ENERGY CLUB

VALUE ADDED COURSE

FOR

ADDITIONAL SKILL DEVELOPMENT OF THE STUDENTS

(UG &PG)

DATA ANALYTICS AND MACHINE LEARNING

COURSE CONTENT:

Data ecosystem, gathering and wrangling data, mining and visualizing data,

Course Duration: 18.03.20224 to 22.03.2024

Course Coordinator: Dr.A.Rathinam ASP/EEE

23EEVC801 **DATA ANALYTICS AND MACHINE LEARNING**

COURSE OBJECTIVES

To enable the students to

- understand business analytics using excel.
- know the basics of SQL.
- identify the datascience with R programming.

UNIT I **BUSINESS ANALYTICS USING EXCEL** **10**

Basics of Business Analytics, Excel Conditional Formatting and Key Functions, Data Analysis with Pivot Tables, Creating Dashboards

UNIT II **SQL FUNDAMANTALS** **10**

Essential SQL Statements, Database Backup and Restore Techniques, Data Selection and Filtering, Data Selection and Ordering, Advanced SQL Topics

UNIT III **DATA SCIENCE WITH R PROGRAMMING** **10**

R Basics and Data Handling, advanced R Programming Concepts Including Statistical Methods and Data Visualization

TOTAL PERIODS 30

COURSE OUTCOMES

At the end this course, students will be able to

- describe business analytics using excel
- enumerate the fundamentals of SQL.
- program the instruction R programming

TEXT BOOKS

1. Data Analytics Made Accessible by Dr. Anil Maheshwari

REFERENCES

1. SQL QuickStart Guide: The Simplified Beginner's Guide to Managing, Analyzing, and Manipulating Data With SQL by Walter Shields

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR 2023-2024
VALUE ADDED COURSE
ATTENDANCE SHEET

YEAR/SEMESTER: IV/VIII

NAME OF THE COURSE: 23EEVC801- DATA ANALYTICS AND MACHINE LEARNING

S.No	Register No	Name of the Student	18.3.24	19.3.24	20.3.24	21.3.24	22.3.24
1	20106001	ARUN.A					
2	20106002	ATHIKMOHAMMED.S					
3	20106003	BARANIKARTHICK.T					
4	20106004	BOOBALAN.S					
5	20106005	DHAMOTHARAN.G					
6	20106006	DHATCHANAMOORTHI.V					
7	20106007	DWARAKEESH.N.K					
8	20106008	GOWTHAM.S.N					
9	20106009	INIYAA.M					
10	20106010	KALAISELVAN.P					
11	20106012	KARANKUMAR.S					
12	20106013	KAVINESAN.R					
13	20106014	KAVINTH.S					
14	20106015	KAVIYARASU.C					
15	20106017	KOMARA PRASAD					
16	20106018	LOGANATHAN.T					
17	20106019	MANIKANDAN.B					
18	20106021	MERLIN.J					
19	20106022	NAVEENKUMAR.V					
20	20106023	PARTHIBAN.K					
21	20106024	PRIYADHARSHINI.S					
22	20106025	RAHUL.M					
23	20106026	RAJIDHARAN.M					
24	20106027	RAVIKUMAR.G					
25	20106028	SANJAI.R					
26	20106029	SANJAI.R (D.O.J:05.01.21)					
27	20106030	SANJAIRAJ.A					
28	20106031	SANJAY.S					
29	20106034	SARANKANTH.M					
30	20106035	SHARMILA.S					
31	20106036	SIVARAJ.S					
32	20106037	SRIMANIKANDAN.S					
33	20106038	SRIRAM.J					
34	20106039	SUGANESH.R					
35	20106040	SURENDIRAN.A					
36	20106041	VASANTHAKUMAR.K					
37	20106042	VEERASAMY .K					
38	20106043	VIGNESH.P					
39	20106044	VISWABHARATH.V					
40	20106045	YUVASHREE.S					
41	20106301	ABINATH.S					
42	20106302	AGASH. R					

43	20106304	BASKARAN.S					
44	20106305	BHARATH.R					
45	20106306	DHEENADHAYALAN					
46	20106309	GOVINDHARAJ.P					
47	20106310	GOWSICK RAJ.R					
48	20106311	HARIHARAN. M					
49	20106312	JAGADEESH.S					
50	20106316	MOHAMMED ASIK. A					
51	20106317	MOHANA PRAKASH .P					
52	20106318	PRASANNABALAJI.G					
53	20106320	SABITHA. M					
54	20106322	SRIDHAR.G					
55	20106324	KARTHIKEYAN.S					

21-4-5

Course Coordinator

HoD/EEE

Dr. G. BALAJI, M.E., Ph.D.,
Professor & HOD
Department of Electrical and Electronics Engineering
Paavai Engineering College
Namakkal - 637 018.

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Electrical and Electronics Engineering

CERTIFICATE

This is to certify

DHAMOTHARAN G

of Paavai Engineering College, studying in **Final Year** has successfully completed the **DATA ANALYTICS AND MACHINE LEARNING** course from **18/03/24** to **22/03/24.**.

Course Coordinator | HOD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Electrical and Electronics Engineering

CERTIFICATE

This is to certify

INIYAA M

of Paavai Engineering College, studying in **Final Year** has successfully completed the **DATA ANALYTICS AND MACHINE LEARNING** course from **18/03/24** to **22/03/24.**.

Course Coordinator | HOD | Principal

PAAVAI ENGINEERING COLLEGE

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Department of Electrical and Electronics Engineering

CERTIFICATE

This is to certify

LOGANATHAN T

of Paavai Engineering College, studying in **Final Year** has successfully completed the **DATA ANALYTICS AND MACHINE LEARNING** course from **18/03/24** to **22/03/24.**.

Course Coordinator | HOD | Principal

PAAVAI ENGINEERING COLLEGE

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Department of Electrical and Electronics Engineering

CERTIFICATE

This is to certify

SANJAY R

of Paavai Engineering College, studying in **Final Year** has successfully completed the **DATA ANALYTICS AND MACHINE LEARNING** course from **18/03/24** to **22/03/24.**.

Course Coordinator | HOD | Principal

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Department of Electrical and Electronics Engineering

CERTIFICATE

This is to certify

SRIRAM J

of Paavai Engineering College, studying in **Final Year** has successfully completed the **DATA ANALYTICS AND MACHINE LEARNING** course from **18/03/24** to **22/03/24.**.

Course Coordinator | HOD | Principal

23FTVC301 MICROBIAL PRODUCTION OF PRODUCTS

COURSE OBJECTIVES

To enable the students to

- know the role of microorganisms in the production of fermented foods, and how they impact humans, food, and the environment
- developing practical skills for working with microbes in the laboratory and outside.
- applying microbiological knowledge in various fields, such as medicine, agriculture, environmental science, and biotechnology

Unit I

Scopes application and challenges. Biology of industrial micro- organisms: Industrial microorganisms, growth metabolism regulation, substrate assimilation/ product formation. Isolation and preservation of industrially important microorganisms.

Unit II

Overproduction of primary & secondary metabolites: Use of mutation selection and recombination techniques. Fermentation raw materials: Media for industrial fermentations; criteria used in media formulation. Fermenter/bioreactor design and operation; types of fermenter.

Unit III

Industrial production of alcoholic beverages (whisky, wine and beer) and improvement by genetic engineering. Microbial production of food additives: amino acids, nucleosides and vitamins. Microbial production of industrial chemicals: Bulk organic chemicals ethanol, citric acid, acetic acid, gluconic acid, glycerol acetone and butanol.

TOTAL PERIODS 30

COURSE OUTCOMES

At the end this course, students will be able to

- learn about the different types of fermentation processes, equipments used and microbiological processes involved.
- gain knowledge of significance and activities of microorganisms in food.
- know the microbial quality control and quality schemes used in food industries.

TEXT BOOKS

1. Crueger W and Crueger A. Biotechnology: A textbook of Industrial Microbiology, 2007

REFERENCES

1. Patel AH. Industrial Microbiology. MacMillan India Limited Publishing Company Ltd. New Delhi, India, 2011

PAAVAI ENGINEERING COLLEGE

(An Autonomous Institution affiliated to Anna university & AICTE, New Delhi)
Namakkal-637018

DEPARTMENT OF FOOD TECHNOLOGY

CORDIALLY INVITE YOU TO THE VALUE ADDED COURSE ON

MICROBIAL PRODUCTION OF PRODUCTS

on September 12th to 16th 2023 @ 10.00 am.

Venue: T203

V.Thabitha Zelin Rachal
Course Coordinator

Dr. S. Kailash
Head of the Department

Dr. M. PremKumar
Principal

All Department Faculty Members & Students

Invite you one and all

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF FOOD TECHNOLOGY

DATE: 04.09.2023

CIRCULAR

It is planned to conduct Five Days Training Course on "Microbial Production of Products" for Third semester students from 12.09.2023 to 16.09.2023. The interested students are asked to enroll their name to the course coordinator Ms.V.Thabitha Zelin Rechal/Foodon or before 07.09.2022.

Course Co-ordinator: 1.Ms.V.Thabitha Zelin Rechal/Food

S. Leelash

HOD/FOOD

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PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF FOOD TECHNOLOGY

VALUE ADDED COURSE ATTENDANCE SHEET

Year / Semester : II / III

Name of the Course : 23FTVC301 – MICROBIAL PRODUCTION OF PRODUCTS

S.No	Register No	Student Name	12.09.23	13.09.23	14.09.23	15.09.23	16.09.23
1.	622122203001	ADITHYA.S	/	/	/	/	/
2.	622122203002	AKALYA.R	/	/	/	/	/
3.	622122203003	ANANYA.P.M	/	/	/	/	/
4.	622122203004	ARVIND KUMAR.G	/	/	/	/	/
5.	622122203005	DAKSHAYANI.M	/	/	/	/	/
6.	622122203006	DEEPIKA.S	/	/	/	/	/
7.	622122203007	DINESH KUMAR.R	/	/	/	/	/
8.	622122203008	ELAKKIYA.R	/	/	/	/	/
9.	622122203010	GOMATHI.P	/	/	/	/	/
10.	622122203011	GOWTHAM.P	/	/	/	/	/
11.	622122203012	HARSALYA.R	/	/	/	/	/
12.	622122203013	ILANCHEZHIYAN.S	/	/	/	/	/
13.	622122203014	JANANI.E	/	/	/	/	/
14.	622122203015	JEEVA.S	/	/	/	/	/
15.	622122203016	JEGADEESH.S	/	/	/	/	/
16.	622122203017	KAVIN KUMAR.R	/	/	/	/	/
17.	622122203019	LALITH KUMAR.R	/	/	/	/	/
18.	622122203020	LISHA.T	AB	AB	AB	AB	AB
19.	622122203021	MANSHRI.M	/	/	/	/	/
20.	622122203022	MATHIYAZHAGAN.M	/	/	/	/	/
21.	622122203023	MYTHLI PRIYA.S	/	/	/	/	/
22.	622122203024	NANDHA KUMAR.P	/	/	/	/	/
23.	622122203025	NETHAJI.R	/	/	/	/	/
24.	622122203026	NIKITHA.K.S	/	/	/	/	/
25.	622122203027	POORNIMA.S	/	/	/	/	/
26.	622122203028	PRAKASH.S	/	/	/	/	/
27.	622122203029	PRASANTH.A.C	AB	AB	AB	AB	AB
28.	622122203031	RASHIKA.S	/	/	/	/	/
29.	622122203032	RESHMA.S	/	/	/	/	/
30.	622122203034	SANJAY.S	/	/	/	/	/
31.	622122203035	SELVA KUMAR.R	/	/	/	/	/

32.	622122203036	SHIFANA MUHAMMAD	/	/	/	/	/
33.	622122203037	SIVASANKARI.S	/	/	/	/	/
34.	622122203038	SONU ROY	/	/	/	/	/
35.	622122203039	THANGAMUTHU.S	/	/	/	/	/
36.	622122203040	UDHAYA.N	/	/	/	/	/
37.	622122203041	VIDHYA.C	/	/	/	/	/
38.	622122203042	VISHVA.R	/	/	/	/	/
39.	622122203501	VIJAYAVELAN.S	/	/	/	/	/

V. Thalitha

Course Coordinator

S. Vilash

HoD

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Food Technology

CERTIFICATE

This is to certify

ADITHYA S

of Paavai Engineering College, studying in **Second Year** has successfully completed the **Microbial Production of Products** course from **12/09/2023** to **22/09/2023.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Food Technology

CERTIFICATE

This is to certify

ARVIND KUMAR G

of Paavai Engineering College, studying in **Second Year** has successfully completed the **Microbial Production of Products** course from **12/09/2023** to **22/09/2023.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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Department of Food Technology

CERTIFICATE

This is to certify

GOWTHAM P

of Paavai Engineering College, studying in **Second Year** has successfully completed the **Microbial Production of Products** course from **12/09/2023** to **22/09/2023.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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Department of Food Technology

CERTIFICATE

This is to certify

JANANI E

of Paavai Engineering College, studying in **Second Year** has successfully completed the **Microbial Production of Products** course from **12/09/2023** to **22/09/2023.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Food Technology

CERTIFICATE

This is to certify

JEEVA S

of Paavai Engineering College, studying in **Second Year** has successfully completed the **Microbial Production of Products** course from **12/09/2023** to **22/09/2023.**

Course Coordinator	HOD	Principal

23FTVC501 **CANE SUGAR TECHNOLOGY**

COURSE OBJECTIVES

To enable the students to

- understand the various terms in the process of Sugar manufacture.
- understand the various methods of clarification process.
- understand the chemicals used in sugar industry.

Unit I

Cane, Absolute juice, Primary juice, Secondary juice, Mixed juice, Last mill juice, Residual juice, Undiluted juice, Clear juice, Sulphured juice, Muddy juice, Bagasse, Syrup, Massecuite, Molasses, Filter cake, Press cake, Imbibition and Maceration.

Unit II

Principles of evaporation, single effect and multiple effect evaporation, scale formation and its removal, condensate removal, entrainment prevention, working of multi jet and barometric condensers. Double effect vapour cell, semi krystener, falling film and rising film evaporators. Problems and troubleshooting.

Unit III

Triple super phosphate, tri-sodium phosphate, phosphoric acid, lime, sulphur, dextranase, gmylase, poly electrolytes, kieselghur, Horne's dry lead, mercuric chloride, formal dehyde (40%).

TOTAL PERIODS 30

COURSE OUTCOMES

At the end this course, students will be able to

- identify the various units in sugar industry.
- discuss the scale formation and its removal.
- list out the chemicals used in the process of white sugar manufacture and explain their uses

TEXT BOOKS

1. R.B.L.Mathur, Hand book of Cane Sugar Technology, 2000

REFERENCES

1. D.P. Kulakarni, Cane Sugar Manufacture in India, 2006

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Namakkal-637018

DEPARTMENT OF FOOD TECHNOLOGY

CORDIALLY INVITE YOU TO THE VALUE ADDED COURSE ON

CANE SUGAR TECHNOLOGY

on September 12th to 16th 2023 @ 10.00 am.

Venue: T204

G.Thamarai Selva
Course Coordinator

Dr. S. Kailash
Head of the Department

Dr. M. PremKumar
Principal

All Department Faculty Members & Students

Invite you one and all

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF FOOD TECHNOLOGY

DATE: 04.09.2023

CIRCULAR

It is planned to conduct Five Days Training Course on "Cane Sugar Technology" for Fifth semester students from 12.09.2023 to 16.09.2023.The interested students are asked to enroll their name to the course coordinator Mr.G.Thamarai Selva/Foodon or before 07.09.2023.

Course Co-ordinator: 1.Mr.G.Thamarai Selva/Food

S. Leelash

HOD/FOOD

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(AUTONOMOUS)

DEPARTMENT OF FOOD TECHNOLOGY

VALUE ADDED COURSE ATTENDANCE SHEET

Year / Semester : III / V

Name of the Course : 23FTVC501 – CANE SUGAR TECHNOLOGY

S.No	Register No	Student Name	12.09.23	13.09.23	14.09.23	15.09.23	16.09.23
1.	622121203001	ABHIMANYU VINOD	/	/	/	/	/
2.	622121203002	ABISH CARMEL D	/	/	/	/	/
3.	622121203003	AKSHAYA S	/	/	/	/	/
4.	622121203004	ANBU SELVAM H	AB	AB	AB	AB	AB
5.	622121203005	ARAVINDHAN K	/	/	/	/	/
6.	622121203006	ARIVAZHAGAN G	/	/	/	/	/
7.	622121203007	ARUL JOTHI M S	/	/	/	/	/
8.	622121203008	BARATH T	/	/	/	/	/
9.	622121203009	BHAVADHARANI J P	/	/	/	/	/
10.	622121203010	CYRIL PRASANNA M	/	/	/	/	/
11.	622121203012	DEVATHA SRI D	AB	AB	AB	AB	AB
12.	622121203013	DHARSHINI K M	/	/	/	/	/
13.	622121203014	DHIVAKAR S	/	/	/	/	/
14.	622121203015	DINESHSURYA B	/	/	/	/	/
15.	622121203016	GAYATHRI M	/	/	/	/	/
16.	622121203017	GIJENDRAN M R	AB	AB	AB	AB	AB
17.	622121203018	GOWRI V	/	/	/	/	/
18.	622121203019	HARINI SUVETHA M	/	/	/	/	/
19.	622121203020	HARINI P	/	/	/	/	/
20.	622121203021	HEMASHREE P	/	/	/	/	/
21.	622121203022	INDHU M	/	/	/	/	/
22.	622121203023	JANANE T I	/	/	/	/	/
23.	622121203024	JANANI D	/	/	/	/	/
24.	622121203025	JAYASRI B	AB	AB	AB	AB	AB
25.	622121203026	JOEWIN S	/	/	/	/	/
26.	622121203027	KAMALESH S	/	/	/	/	/
27.	622121203028	KANISHKA K	/	/	/	/	/
28.	622121203029	KANISHKA K	/	/	/	/	/
29.	622121203030	KEERTHIKA M	/	/	/	/	/
30.	622121203031	KIRUTHIGA DEVI S	/	/	/	/	/
31.	622121203032	LOGANATHAN N	/	/	/	/	/

32.	622121203033	LOKESHWARI A	/	/	/	/	/
33.	622121203034	MANISHARMA T	/	/	/	/	/
34.	622121203035	MARIMUTHU N	/	/	/	/	/
35.	622121203036	MOGANA PRIYA R	/	/	/	/	/
36.	622121203037	MOHAMED RASHID K H	/	/	/	/	/
37.	622121203038	MONISH KUMAR K	/	/	/	/	/
38.	622121203039	MRUTHULA B	/	/	/	/	/
39.	622121203042	PAVITTRA SRI M	AB	AB	AB	AB	AB
40.	622121203044	PUSPHARAJ D	/	/	/	/	/
41.	622121203046	SABAPATHI S	/	/	/	/	/
42.	622121203048	SAKTHIVEL S	/	/	/	/	/
43.	622121203049	SERAN V	/	/	/	/	/
44.	622121203050	SINDHIYA P M	/	/	/	/	/
45.	622121203051	SIVA C	/	/	/	/	/
46.	622121203052	SOWNDARAYA A	/	/	/	/	/
47.	622121203054	THAMIZHMARAN D	/	/	/	/	/
48.	622121203055	VASANTH V	/	/	/	/	/
49.	622121203056	VENGATESH R	/	/	/	/	/
50.	622121203057	VIDHYA SAGAR V	/	/	/	/	/
51.	622121203058	VIGNESH A	/	/	/	/	/
52.	622121203062	VIZHIYATHAVAN R	/	/	/	/	/

G. Thamarai Selva.
Course Coordinator

S. Lilagh
HoD

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Food Technology

CERTIFICATE

This is to certify

AKSHAYA S

of Paavai Engineering College, studying in **Third Year** has successfully completed the **Cane Sugar Technology** course from **12/09/2023** to **16/09/2023.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Food Technology

CERTIFICATE

This is to certify

BARATH T

of Paavai Engineering College, studying in **Third Year** has successfully completed the **Cane Sugar Technology** course from **12/09/2023** to **16/09/2023.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Food Technology

CERTIFICATE

This is to certify

GOWRI V

of Paavai Engineering College, studying in **Third Year** has successfully completed the **Cane Sugar Technology** course from **12/09/2023** to **16/09/2023.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Food Technology

CERTIFICATE

This is to certify

HARINI P

of Paavai Engineering College, studying in **Third Year** has successfully completed the **Cane Sugar Technology** course from **12/09/2023** to **16/09/2023.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Food Technology

CERTIFICATE

This is to certify

INDHU M

of Paavai Engineering College, studying in **Third Year** has successfully completed the **Cane Sugar Technology** course from **12/09/2023** to **16/09/2023.**

Course Coordinator	HOD	Principal

23FTVC701 RICE AND PADDY PROCESSING TECHNOLOGY

COURSE OBJECTIVES

To enable the students to

- equip the students with basic concepts of various unit operations in processing of food materials.
- provide basic knowledge about milling techniques of rice.
- impart skills on the product and by-product development.

Unit I

Structure and Composition of paddy – Cleaning of paddy -Pre Cleaners, - Paddy Parboiling processes. Physicochemical changes during parboiling – effect of parboiling on cooking qualities - Parboiling methods - Methods of grain drying- LSU, rotary, columnar, recirculatory dryers

Unit II

Rice milling flow chart - Modern Rice Milling equipments– paddy milling - Dehuskingof paddy - Engelberg Huller, Under runner disc shellers, rubber roll sheller and Centrifugaldehusker- Paddy Separators – Satake and Schule Designs – Rice Polishers - Cone polishers and othertypes - Bran and Brokens separators - Rice mill yields and loss due to brokens at different stages of milling – milling efficiency.

Unit III

Value added products - Rice convenience foods- flattened rice, puffed rice, precooked rice, canned rice, expanded rice, rice based infant food formulas, rice puddings and breads, rice cakes, rice noodles and fermented foods. - Use of Rice Bran in Edible oil Industry - By-products of paddy processing - Paddy husk and its uses as husk ash, activated carbon, furfural and other by products

TOTAL PERIODS 30

COURSE OUTCOMES

At the end this course, students will be able to

- understand the various unit operations involved milling
- analyze and select suitable equipment for milling.
- apply the knowledge to process grains into value added products

TEXT BOOKS

1. Sahay, K.M. and K.K. Singh, 2006 Unit operations of Agricultural processing. Vikas publishing House

REFERENCES

1. Khatkar, B.S. (2010). Baking Science and Technology. Arihant Prakashan

PAAVAI ENGINEERING COLLEGE

(An Autonomous Institution affiliated to Anna university & AICTE, New Delhi)
Namakkal-637018

DEPARTMENT OF FOOD TECHNOLOGY

Announce value added course on

Rice and Paddy Processing Technology

on September 12th to 18th 2023 @ 10.00 am.

Venue: T205

R.Rajeswari
Course Coordinator

Dr. S. Kailash
Head of the Department

Dr. M. PremKumar
Principal

All Department Faculty Members & Students

Invite you one and all.

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF FOOD TECHNOLOGY

DATE: 04.09.2023

CIRCULAR

It is planned to conduct Five Days Training Course on "Rice and Paddy Processing Technology" for Seventh semester students from 12.09.2023 to 16.09.2023.The interested students are asked to enroll their name to the course coordinatorMs.R.Rajeswari/Foodon or before 07.09.2023.

Course Co-ordinator: 1.Ms.R.Rajeswari/Food

S. Leelath

HOD/FOOD

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(AUTONOMOUS)

DEPARTMENT OF FOOD TECHNOLOGY

VALUE ADDED COURSE ATTENDANCE SHEET

Year / Semester : IV / VII

Name of the Course : 23FTVC701 – RICE AND PADDY PROCESSING TECHNOLOGY

S.No	Register No	Student Name	12.09.23	13.09.23	14.09.23	15.09.23	16.09.23
1.	20203001	ABIN JOY MATHEW	/	/	/	/	/
2.	20203002	AGATHIYAN B	/	/	/	/	/
3.	20203003	AJAI M	/	/	/	/	/
4.	20203005	ANJASHA JUHI G	/	/	/	/	/
5.	20203006	BALAKUMAR K	/	/	/	/	/
6.	20203007	BOOPATHI	/	/	/	/	/
7.	20203008	CHANDRU A	/	/	/	/	/
8.	20203009	CHANDRU T	/	/	/	/	/
9.	20203010	DHARSHANI S M	/	/	/	/	/
10.	20203011	DINESH N	/	/	/	/	/
11.	20203012	GLADISH VINCY D	/	/	/	/	/
12.	20203013	GOBI G	/	/	/	/	/
13.	20203014	GOKULA PRIYA A	/	/	/	/	/
14.	20203015	GOPIKA SHREE C	/	/	/	/	/
15.	20203016	GOWTHAM R	/	/	/	/	/
16.	20203017	HARINI P A M	/	/	/	/	/
17.	20203018	HARIPRIYAN C	/	/	/	/	/
18.	20203019	HARIVISWARAJA S	/	/	/	/	/
19.	20203020	JAGADEESHWARI S	/	/	/	/	/
20.	20203021	JAGADHEESAN A V	AB	AB	AB	AB	AB
21.	20203022	JAINANDHINI S	/	/	/	/	/
22.	20203025	KIRUTHIKA M	/	/	/	/	/
23.	20203026	LAVANYA M	/	/	/	/	/
24.	20203027	MANOHARAN T	/	/	/	/	/
25.	20203028	MANOJ KUMAR B	/	/	/	/	/
26.	20203029	MEGHNA G	AB	AB	AB	AB	AB
27.	20203030	MOTHESH P	/	/	/	/	/
28.	20203031	NEELAVATHI U	/	/	/	/	/
29.	20203032	NESAN M	/	/	/	/	/
30.	20203033	PAVITHRA N	/	/	/	/	/
31.	20203034	PONMOZHI M	/	/	/	/	/

32.	20203035	PRASANTH S	/	/	/	/	/
33.	20203037	PRIYA A	/	/	/	/	/
34.	20203038	RAGUL R	/	/	/	/	/
35.	20203039	RAJARAJACHOLAN A	/	/	/	/	/
36.	20203040	RAJASHIMMAN S	/	/	/	/	/
37.	20203042	RAMACHANDRAN K	/	/	/	/	/
38.	20203043	RANJANA J	/	/	/	/	/
39.	20203044	SAISUDHARSANAN S R	/	/	/	/	/
40.	20203045	SHANTHINI P	/	/	/	/	/
41.	20203046	SHILESH S R	AB	AB	AB	AB	AB
42.	20203047	SILAMBARASAN P	/	/	/	/	/
43.	20203048	SRI GANESH V G	/	/	/	/	/
44.	20203049	SRI LAKSHMI NARAYANAN S	/	/	/	/	/
45.	20203050	SRI SOMADHARSHINI G	/	/	/	/	/
46.	20203051	SUMITHA V	/	/	/	/	/
47.	20203052	THIRISHA BHARATHI G K	/	/	/	/	/
48.	20203053	THIRUMURUGAN A	/	/	/	/	/
49.	20203055	VINOTHA G	/	/	/	/	/
50.	20203056	VINOTHA S	/	/	/	/	/
51.	20203057	VISHAALAAKSHI M	/	/	/	/	/

Course Coordinator

HoD

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Food Technology

CERTIFICATE

This is to certify

AJAI M

of Paavai Engineering College, studying in **Final Year** has successfully completed the **Rice and Paddy Processing Technology** course from **12/09/2023** to **16/09/2023.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Food Technology

CERTIFICATE

This is to certify

CHANDRU A

of Paavai Engineering College, studying in **Final Year** has successfully completed the **Rice and Paddy Processing Technology** course from **12/09/2023** to **16/09/2023.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Food Technology

CERTIFICATE

This is to certify

DINESH N

of Paavai Engineering College, studying in **Final Year** has successfully completed the **Rice and Paddy Processing Technology** course from **12/09/2023** to **16/09/2023.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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Department of Food Technology

CERTIFICATE

This is to certify

GOBI G

of Paavai Engineering College, studying in **Final Year** has successfully completed the **Rice and Paddy Processing Technology** course from **12/09/2023** to **16/09/2023.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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Department of Food Technology

CERTIFICATE

This is to certify

GOWTHAM R

of Paavai Engineering College, studying in **Final Year** has successfully completed the **Rice and Paddy Processing Technology** course from **12/09/2023** to **16/09/2023.**

Course Coordinator	HOD	Principal

23FTVC401 **BASICS OF BIOTECHNOLOGY**

COURSE OBJECTIVES

To enable the students to

- learn the foundations and principles of immunology.
- learn the foundations and principles of biotechnology, analytical tools.
- learn the foundations and principles of quantitative methods, and bioinformatics.

Unit I

History, scope, and significance of biotechnology. Applications of biotechnology in Plant, Animal, Industrial and Pharmaceutical sciences. Environmental Biotechnology – Bioremediation and Biofuels, Biofertilizers and Biopesticides. Genetic engineering – Gene manipulation using restriction enzymes and cloning vectors; Physical, chemical, and biological methods of gene transfer.

Unit II

Applications in forensics – PCR and DNA fingerprinting. Immunological techniques – Immunoblotting and ELISA. Monoclonal antibodies –Applications in diagnosis and therapy. Eugenics and Gene therapy

Unit III

Data collection and sampling. Measures of central tendency – Mean, Median, Mode. Measures of dispersion – range, standard deviation and variance. Probability and tests of significance. Introduction, Genomics, Proteomics, types of Biological data, biological databases- NCBI, EBI, Gen Bank; Protein 3D structures, Sequence alignment. . Accessing Nucleic Acid and Protein databases, NCBI Genome Workbench.

TOTAL PERIODS 30

COURSE OUTCOMES

At the end this course, students will be able to

- knowledge on biotechnology principles and its applications in food and medicine.
- outline the techniques, tools and their uses in diagnosis and therapy.
- demonstrate the bioinformatics and statistical tools in comprehending the complex

TEXT BOOKS

1. Gerard J., Tortora, Berdell R. Funke, Christine L. Case., 2016. Microbiology: An Introduction. 11th Edition. Pearson publications, London, England.

REFERENCES

1. Micale, J. Pelczar Jr., E.C.S. Chan., Noel R. Kraig., 2002. Pelczar Microbiology. 5th Edition. McGraw Education, New York, USA

PAAVAI ENGINEERING COLLEGE

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Namakkal-637018

DEPARTMENT OF FOOD TECHNOLOGY

Announce value added course on

BASICS OF BIOTECHNOLOGY

on March 18th to 22nd 2024 @ 10.00 am.

Venue: T203

M.D.S.Rajaruban
Course Coordinator

Dr. S. Kailash
Head of the Department

Dr. M. PremKumar
Principal

All Department Faculty Members & Students

Invite you one and all

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF FOOD TECHNOLOGY

DATE: 06.03.2024

CIRCULAR

It is planned to conduct Five Days Training Course on "Basics of Biotechnology" for Fourth semester students from 18.03.2024 to 22.03.2024.The interested students are asked to enroll their name to the course coordinator Mr.M.D.S.Rajaruban/Foodon or before 14.03.2024.

Course Co-ordinator: 1.Mr.M.D.S.Rajaruban/Food

S. Vielosh

HOD/FOOD

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PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF FOOD TECHNOLOGY

VALUE ADDED COURSE ATTENDANCE SHEET

Year / Semester : II / IV

Name of the Course : 23FTVC401 – BASICS OF BIOTECHNOLOGY

S.No	Register No	Student Name	19.09.22	20.09.22	21.09.22	22.09.22	23.09.22
1.	622122203001	ADITHYA.S	/	/	/	/	/
2.	622122203002	AKALYA.R	/	/	/	/	/
3.	622122203003	ANANYA.P.M	AB	AB	AB	AB	AB
4.	622122203004	ARVIND KUMAR.G .	/	/	/	/	/
5.	622122203005	DAKSHAYANI.M	/	/	/	/	/
6.	622122203006	DEEPIKA.S	/	/	/	/	/
7.	622122203007	DINESH KUMAR.R	/	/	/	/	/
8.	622122203008	ELAKKIYA.R	/	/	/	/	/
9.	622122203010	GOMATHI.P	/	/	/	/	/
10.	622122203011	GOWTHAM.P	/	/	/	/	/
11.	622122203012	HARSALYA.R	/	/	/	/	/
12.	622122203013	ILANCHEZHIYAN.S	/	/	/	/	/
13.	622122203014	JANANI.E	/	/	/	/	/
14.	622122203015	JEEVA.S	AB	AB	AB	AB	AB
15.	622122203016	JEGADEESH.S	/	/	/	/	/
16.	622122203017	KAVIN KUMAR.R	/	/	/	/	/
17.	622122203019	LALITH KUMAR.R	/	/	/	/	/
18.	622122203020	LISHA.T	/	/	/	/	/
19.	622122203021	MANSHRI.M	/	/	/	/	/
20.	622122203022	MATHIYAZHAGAN.M	/	/	/	/	/
21.	622122203023	MYTHLI PRIYA.S	/	/	/	/	/
22.	622122203024	NANDHA KUMAR.P	/	/	/	/	/
23.	622122203025	NETHAJI.R	/	/	/	/	/
24.	622122203026	NIKITHA.K.S	/	/	/	/	/
25.	622122203027	POORNIMA.S	/	/	/	/	/
26.	622122203028	PRAKASH.S	AB	AB	AB	AB	AB
27.	622122203029	PRASANTH.A.C	/	/	/	/	/
28.	622122203031	RASHIKA.S	/	/	/	/	/
29.	622122203032	RESHMA.S	/	/	/	/	/
30.	622122203034	SANJAY.S	/	/	/	/	/
31.	622122203035	SELVA KUMAR.R	/	/	/	/	/

32.	622122203036	SHIFANA MUHAMMAD	/	/	/	/	/
33.	622122203037	SIVASANKARI.S	/	/	/	/	/
34.	622122203038	SONU ROY	AB	AB	AB	AB	AB
35.	622122203039	THANGAMUTHU.S	/	/	/	/	/
36.	622122203040	UDHAYA.N	/	/	/	/	/
37.	622122203041	VIDHYA.C	/	/	/	/	/
38.	622122203042	VISHVA.R	/	/	/	/	/
39.	622122203501	VIJAYAVELAN.S	/	/	/	/	/

Course Coordinator

HoD

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Food Technology

CERTIFICATE

This is to certify

LISHA T

of Paavai Engineering College, studying in **Second Year** has successfully completed the **Basics of Biotechnology** course from **18/03/2024** to **22/03/2024.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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Department of Food Technology

CERTIFICATE

This is to certify

NETHAJI R

of Paavai Engineering College, studying in **Second Year** has successfully completed the **Basics of Biotechnology** course from **18/03/2024** to **22/03/2024.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Food Technology

CERTIFICATE

This is to certify

RASHIKA S

of Paavai Engineering College, studying in **Second Year** has successfully completed the **Basics of Biotechnology** course from **18/03/2024** to **22/03/2024.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Food Technology

CERTIFICATE

This is to certify

SELVA KUMAR R

of Paavai Engineering College, studying in **Second Year** has successfully completed the **Basics of Biotechnology** course from **18/03/2024** to **22/03/2024.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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Department of Food Technology

CERTIFICATE

This is to certify

VISHVA R

of Paavai Engineering College, studying in **Second Year** has successfully completed the **Basics of Biotechnology** course from **18/03/2024** to **22/03/2024.**

Course Coordinator	HOD	Principal

23FTVC601 **FOOD MATERIAL SCIENCE**

COURSE OBJECTIVES

To enable the students to

- introduce the students to the basics and important surface properties of food materials
- teach the importance of thermal properties of foods in different states
- describe the electric and dielectric properties applied in various novel processing techniques of foods

Unit I

Latent Heat, Specific Heat of Unfrozen and Frozen Foods, Thermal Conductivity of Unfrozen and Frozen Foods, Thermal Diffusivity of Unfrozen Foods and Frozen, Thermal Compression and Expansion, Glass and Phase Transition in Food Materials

Unit II

Viscosity and Deformation in Food Material, Flow Behavior, Viscous and Plastic Flow, Viscoelastic Behavior, Compression, Snapping-Bending, Cutting Shear, Puncture, Penetration, Texture Profile Properties Farinograph and Mixograph.

Unit III

Electrical Conductivity and Ohmic Heating of Food Material, Maxwell's Equations of Electromagnetics, Dielectric Constant and Dielectric Loss Factor of Foods, Radiofrequency and Microwave Heating of Food Material

TOTAL PERIODS 30

COURSE OUTCOMES

At the end this course, students will be able to

- understand various important and basic physical properties of food materials
- comprehend the engineering aspects of food properties
- understand the principle of electric and dielectric properties and their importance in food processing

TEXT BOOKS

1. Rao, M.A., Rizvi, S.S.H,. Dutta, A.K. and Ahmad, J. (2014). Engineering Properties of Foods (4th Edition). CRC Press

REFERENCES

1. Sahin, S. and Sumnu, S.G. (2006). Physical Properties of Foods. Springer

PAAVAI ENGINEERING COLLEGE

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Namakkal-637018

DEPARTMENT OF FOOD TECHNOLOGY

CORDIALLY INVITE YOU TO THE VALUE ADDED COURSE ON

FOOD MATERIAL SCIENCE

on March 18th to 22nd 2024 @ 10.00 am.

Venue: T204

S.Anita
Course Coordinator

Dr. S. Kailash
Head of the Department

Dr. M. PremKumar
Principal

All Department Faculty Members & Students

Invite you one and all

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF FOOD TECHNOLOGY

DATE: 06.03.2024

CIRCULAR

It is planned to conduct Five Days Training Course on "Food Material Science" for Sixth semester students from 18.03.2024 to 22.03.2024.The interested students are asked to enroll their name to the course coordinatorMs.S.Anita/Foodon or before 14.03.2024.

Course Co-ordinator: 1.Ms.S.Anita/Food

S. Vilash

HOD/FOOD

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(AUTONOMOUS)

DEPARTMENT OF FOOD TECHNOLOGY

VALUE ADDED COURSE ATTENDANCE SHEET

Year / Semester : III / VI

Name of the Course : 23FTVC601 – FOOD MATERIAL SCIENCE

S.No	Register No	Student Name	18.03.24	19.03.24	20.03.24	21.03.24	22.03.24
1.	622121203001	ABHIMANYU VINOD	/	/	/	/	/
2.	622121203002	ABISH CARMEL D	AB	AB	AB	AB	AB
3.	622121203003	AKSHAYA S	/	/	/	/	/
4.	622121203004	ANBU SELVAM H	/	/	/	/	/
5.	622121203005	ARAVINDHAN K	/	/	/	/	/
6.	622121203006	ARIVAZHAGAN G	/	/	/	/	/
7.	622121203007	ARUL JOTHI M S	/	/	/	/	/
8.	622121203008	BARATH T	AB	AB	AB	AB	AB
9.	622121203009	BHAVADHARANI J P	/	/	/	/	/
10.	622121203010	CYRIL PRASANNA M	/	/	/	/	/
11.	622121203012	DEVATHA SRI D	/	/	/	/	/
12.	622121203013	DHARSHINI K M	AB	AB	AB	AB	AB
13.	622121203014	DHIVAKAR S	/	/	/	/	/
14.	622121203015	DINESHSURYA B	/	/	/	/	/
15.	622121203016	GAYATHRI M	/	/	/	/	/
16.	622121203017	GIJENDRAN M R	AB	AB	AB	AB	AB
17.	622121203018	GOWRI V	/	/	/	/	/
18.	622121203019	HARINI SUVETHA M	/	/	/	/	/
19.	622121203020	HARINI P	/	/	/	/	/
20.	622121203021	HEMASHREE P	AB	AB	AB	AB	AB
21.	622121203022	INDHU M	/	/	/	/	/
22.	622121203023	JANANE T I	/	/	/	/	/
23.	622121203024	JANANI D	/	/	/	/	/
24.	622121203025	JAYASRI B	/	/	/	/	/
25.	622121203026	JOEWIN S	/	/	/	/	/
26.	622121203027	KAMALESH S	/	/	/	/	/
27.	622121203028	KANISHKA K	AB	AB	AB	AB	AB
28.	622121203029	KANISHKA K	/	/	/	/	/
29.	622121203030	KEERTHIKA M	/	/	/	/	/
30.	622121203031	KIRUTHIGA DEVI S	/	/	/	/	/
31.	622121203032	LOGANATHAN N	/	/	/	/	/

32.	622121203033	LOKESHWARI A	/	/	/	/	/
33.	622121203034	MANISHARMA T	/	/	/	/	/
34.	622121203035	MARIMUTHU N	/	/	/	/	/
35.	622121203036	MOGANA PRIYA R	/	/	/	/	/
36.	622121203037	MOHAMED RASHID K H	/	/	/	/	/
37.	622121203038	MONISH KUMAR K	/	/	/	/	/
38.	622121203039	MRUTHULA B	/	/	/	/	/
39.	622121203042	PAVITTRA SRI M	/	/	/	/	/
40.	622121203044	PUSPHARAJ D	AB	AB	AB	AB	AB
41.	622121203046	SABAPATHI S	/	/	/	/	/
42.	622121203048	SAKTHIVEL S	/	/	/	/	/
43.	622121203049	SERAN V	/	/	/	/	/
44.	622121203050	SINDHIYA P M	/	/	/	/	/
45.	622121203051	SIVA C	/	/	/	/	/
46.	622121203052	SOWNDARAYA A	/	/	/	/	/
47.	622121203054	THAMIZHMARAN D	/	/	/	/	/
48.	622121203055	VASANTH V	/	/	/	/	/
49.	622121203056	VENGATESH R	/	/	/	/	/
50.	622121203057	VIDHYA SAGAR V	/	/	/	/	/
51.	622121203058	VIGNESH A	/	/	/	/	/
52.	622121203062	VIZHIYATHAVAN R	AB	AB	AB	AB	AB

S. Anitha
Course Coordinator

S. Lekagh
HoD

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Food Technology

CERTIFICATE

This is to certify

JANANI D

of Paavai Engineering College, studying in **Third Year** has successfully completed the **Food Material Science** course from **18/03/2024** to **22/03/2024.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Food Technology

CERTIFICATE

This is to certify

JOEWIN S

of Paavai Engineering College, studying in **Third Year** has successfully completed the **Food Material Science** course from **18/03/2024** to **22/03/2024.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Food Technology

CERTIFICATE

This is to certify

MARIMUTHU N

of Paavai Engineering College, studying in **Third Year** has successfully completed the **Food Material Science** course from **18/03/2024** to **22/03/2024.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Food Technology

CERTIFICATE

This is to certify

MRUTHULA B

of Paavai Engineering College, studying in **Third Year** has successfully completed the **Food Material Science** course from **18/03/2024** to **22/03/2024.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Food Technology

CERTIFICATE

This is to certify

SERAN V

of Paavai Engineering College, studying in **Third Year** has successfully completed the **Food Material Science** course from **18/03/2024** to **22/03/2024.**

Course Coordinator	HOD	Principal

23FTVC801 **HACCP AND HALAL**

COURSE OBJECTIVES

To enable the students to

- provide fundamental theoretical concepts on food safety systems; technical knowledge for identifying food safety problems
- exposure and awareness on food safety systems in Food industries
- identify the sources for food standards, regulations and specifications prescribed by different certificate bodies.

Unit I

Concept and meaning of Food quality and food Safety, Importance of quality control and assurance, food laws and regulations. National and international food laws, Governing bodies. Application and specifications for food standards, food products, additives, preservatives, colouring agents, emulsifiers, stabilizers and antioxidants, Natural toxins..

Unit II

Methods/techniques for assessment of quality of different foods. Safety aspects of water and beverages such as soft drinks, tea, coffee, cocoa, Safety assessment of food contaminants and pesticide residues

Unit III

Quality assurance - Total quality management: GMP, GHP, GLP, GAP, sanitary and hygienic practices. Hazard analysis and critical control point: quality manuals, documentation and audits. Nutritional labeling, bar coding, meaning and importance

TOTAL PERIODS 30

COURSE OUTCOMES

At the end this course, students will be able to

- develop a HACCP plans for different food industries
- understand laws and regulations governing food safety principles
- understand industry food safety requirements and certifications: organic, halal, kosher etc

TEXT BOOKS

1. Handbook of Analysis and Quality Control for Fruit and Vegetable Products

REFERENCES

1. Quality Control in the Food Industry, Volume 2 edited by S Herschdoerfer.

PAAVAI ENGINEERING COLLEGE

(An Autonomous Institution affiliated to Anna university & AICTE, New Delhi)
Namakkal-637018

DEPARTMENT OF FOOD TECHNOLOGY

CORDIALLY INVITE YOU TO THE VALUE ADDED COURSE ON

HACCP AND HALAL

on March18th to 22nd 2024 @ 10.00 am.

Venue: T205

S. Gowtham Kumar
Course Coordinator

Dr. S. Kailash
Head of the Department

Dr. M. PremKumar
Principal

All Department Faculty Members & Students

Invite you one and all.

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF FOOD TECHNOLOGY

DATE: 06.03.2024

CIRCULAR

It is planned to conduct Five Days Training Course on "HACCP and HALAL" for Eighth semester students from 18.03.2024 to 22.03.2024. The interested students are asked to enroll their name to the course coordinatorMr.S.GowthamKumar/Foodon or before 14.03.2024.

Course Co-ordinator: 1.Mr.S.Gowtham Kumar/Food

HOD/FOOD

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PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF FOOD TECHNOLOGY

VALUE ADDED COURSE ATTENDANCE SHEET

Year / Semester : IV / VIII

Name of the Course : 23FTVC801 – HACCP AND HALAL

S.No	Register No	Student Name	18.03.24	19.03.24	20.03.24	21.03.24	22.03.24
1.	20203001	ABIN JOY MATHEW	/	/	/	/	/
2.	20203002	AGATHIYAN B	/	/	/	/	/
3.	20203003	AJAI M	/	/	/	/	/
4.	20203005	ANJASHA JUHI G	/	/	/	/	/
5.	20203006	BALAKUMAR K	AB	AB	AB	AB	AB
6.	20203007	BOOPATHI	/	/	/	/	/
7.	20203008	CHANDRU A	/	/	/	/	/
8.	20203009	CHANDRU T	/	/	/	/	/
9.	20203010	DHARSHANI S M	/	/	/	/	/
10.	20203011	DINESH N	/	/	/	/	/
11.	20203012	GLADISH VINCY D	/	/	/	/	/
12.	20203013	GOBI G	/	/	/	/	/
13.	20203014	GOKULA PRIYA A	AB	AB	AB	AB	AB
14.	20203015	GOPIKA SHREE C	/	/	/	/	/
15.	20203016	GOWTHAM R	/	/	/	/	/
16.	20203017	HARINI P A M	/	/	/	/	/
17.	20203018	HARIPRIYAN C	/	/	/	/	/
18.	20203019	HARIVISWARAJA S	/	/	/	/	/
19.	20203020	JAGADEESHWARI S	/	/	/	/	/
20.	20203021	JAGADHEESAN A V	AB	AB	AB	AB	AB
21.	20203022	JAINANDHINI S	/	/	/	/	/
22.	20203025	KIRUTHIKA M	/	/	/	/	/
23.	20203026	LAVANYA M	/	/	/	/	/
24.	20203027	MANOHARAN T	/	/	/	/	/
25.	20203028	MANOJ KUMAR B	/	/	/	/	/
26.	20203029	MEGHNA G	/	/	/	/	/
27.	20203030	MOTHESH P	/	/	/	/	/
28.	20203031	NEELAVATHI U	/	/	/	/	/
29.	20203032	NESAN M	/	/	/	/	/
30.	20203033	PAVITHRA N	/	/	/	/	/
31.	20203034	PONMOZHI M	/	/	/	/	/

32.	20203035	PRASANTH S	/	/	/	/	/
33.	20203037	PRIYA A	/	/	/	/	/
34.	20203038	RAGUL R	/	/	/	/	/
35.	20203039	RAJARAJACHOLAN A	/	/	/	/	/
36.	20203040	RAJASHIMMAN S	AB	AB	AB	AB	AB
37.	20203042	RAMACHANDRAN K	/	/	/	/	/
38.	20203043	RANJANA J	/	/	/	/	/
39.	20203044	SAISUDHARSANAN S R	/	/	/	/	/
40.	20203045	SHANTHINI P	/	/	/	/	/
41.	20203046	SHILESH S R	/	/	/	/	/
42.	20203047	SILAMBARASAN P	/	/	/	/	/
43.	20203048	SRI GANESH V G	/	/	/	/	/
44.	20203049	SRI LAKSHMI NARAYANAN S	/	/	/	/	/
45.	20203050	SRI SOMADHARSHINI G	AB	AB	AB	AB	AB
46.	20203051	SUMITHA V	/	/	/	/	/
47.	20203052	THIRISHA BHARATHI G K	/	/	/	/	/
48.	20203053	THIRUMURUGAN A	/	/	/	/	/
49.	20203055	VINOTHA G	AB	AB	AB	AB	AB
50.	20203056	VINOTHA S	/	/	/	/	/
51.	20203057	VISHAALAAKSHI M	/	/	/	/	/

Course Coordinator

HoD

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Food Technology

CERTIFICATE

This is to certify

HARIPRIYAN C

of Paavai Engineering College, studying in **Final Year** has successfully completed the **HACCP and HALAL** course from **18/03/2024** to **22/03/2024.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

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Department of Food Technology

CERTIFICATE

This is to certify

LAVANYA M

of Paavai Engineering College, studying in **Final Year** has successfully completed the **HACCP and HALAL** course from **18/03/2024** to **22/03/2024.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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Department of Food Technology

CERTIFICATE

This is to certify

PRIYA A

of Paavai Engineering College, studying in **Final Year** has successfully completed the **HACCP and HALAL** course from **18/03/2024** to **22/03/2024.**

Course Coordinator	HOD	Principal

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Department of Food Technology

CERTIFICATE

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RANJANA J

of Paavai Engineering College, studying in **Final Year** has successfully completed the **HACCP and HALAL** course from **18/03/2024** to **22/03/2024.**

Course Coordinator	HOD	Principal

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Department of Food Technology

CERTIFICATE

This is to certify

SUMITHA V

of Paavai Engineering College, studying in **Final Year** has successfully completed the **HACCP and HALAL** course from **18/03/2024** to **22/03/2024.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)

NAMAKKAL - 637 018

Affiliated to Anna University Chennai and approved by AICTE, New Delhi.

Accredited by NBA, New Delhi and NAAC with "A" Grade

DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

DATE: 10.09.2023

CIRCULAR

It is planned to conduct Training Course on **"Business Sustainability Management"** for MBA students from 12.09.2023 to 16.09.2023 date. The interested students are asked to enroll their name to the course coordinator

M. Bharani Eswari, Assistant Professor /MBA on or 12.09.2023. (Spot registration can also be permitted).

Course Co-ordinators: 1. **M. Bharani Eswari, Assistant Professor** /MBA

HOD/MBA

HEAD OF THE DEPARTMENT
Management Studies
PAAVAI ENGINEERING COLLEGE
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PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

VALUE ADDED COURSE

BUSINESS SUSTAINABILITY MANAGEMENT

Date: 12.09.2023 to 16.09.2023

Venue: classroom

COURSE INCHARGE

1. **M. BHARANI ESWARI, ASSISTANT PROFESSOR/MBA**

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23BAVC101 BUSINESS SUSTAINABILITY MANAGEMENT

Course Objectives:

1. To understand the key concepts of sustainability and their relevance to modern business practices.
2. To analyze the environmental, social, and economic impacts of business operations.
3. To develop strategies to integrate sustainability into business processes, ensuring long-term growth.

UNIT - I Introduction to Business Sustainability

Overview of sustainability, its importance in business, and global sustainability challenges.

UNIT – II Sustainability Frameworks and Standards

Introduction to sustainability frameworks: Global Reporting Initiative (GRI), ESG, and SDGs (Sustainable Development Goals).

UNIT – IV Environmental Sustainability in Business

Climate change, energy efficiency, resource management, waste reduction, and business's role in environmental stewardship.

UNIT – III Corporate Social Responsibility (CSR) and Social Sustainability

Human rights, ethical labor practices, diversity and inclusion, community engagement, and social sustainability. Profitability, circular economy, green innovation, sustainable business models, and financial performance.

UNIT – V Sustainability in the Supply Chain

Ethical sourcing, green supply chains, risk management in sustainable procurement.

Total hours : 30

Course Outcomes:

1. To Design and implement sustainability strategies that align with global business trends and sustainability standards.
2. To Evaluate business performance in terms of environmental, social, and economic impact, using established sustainability frameworks.
3. To Critically assess the risks and opportunities involved in adopting sustainable practices in business.

Textbooks : "Business Environment and Sustainable Development" by Dr. S. Rajasekaran

Reference Books : "Environmental Management: Text and Cases" by C.S. K. Rao (Prentice Hall India).

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DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

DATE: 10.09.2023

CIRCULAR

It is planned to conduct Training Course on **"CYBER SECURITY"** for MBA students from **12.09.2023 to 16.09.2023**. The interested students are asked to enroll their name to the course coordinator

M. Bharani Eswari, Assistant Professor /MBA on or 15.09.2023. (Spot registration can also be permitted).

Course Co-ordinators: 1. **M. Bharani Eswari, Assistant Professor**

HOD/MBA

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Management Studies
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PAAVAI ENGINEERING COLLEGE

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DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

VALUE ADDED COURSE

CYBER SECURITY

Date: 12.09.2023 to 16.09.2023.

Venue: classroom

COURSE INCHARGE

1. **M. BHARANI ESWARI,** ASSISTANT PROFESSOR/MBA

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23BAVC301 CYBER SECURITY

COURSE OBJECTIVES

- To exhibit knowledge to secure corrupted systems, protect personal data, and secure computer networks in an organization.
- To understand principles of web security
- To guarantee a secure network by monitoring and analyzing the nature of attacks through cyber/computer forensics software/tools.
- To understand cybercrime management standards, guidelines and procedures as well as the implementation and governance of these activities

UNIT I Definition – Crime, Cyber Crime, Information Security, Digital Forensics – Conventional Crime Vs. Cyber Crime - Uniqueness of Cyber Crime – History of Cyber Crimes.

UNIT II Forms of Cyber Crimes – Hacking – types of hacking, hackers, Cracking, Dos, DDos, Cyber Bullying, Cyber Stalking, Pornography, Phishing, Intellectual Property Theft, Data Theft, Dada diddling, malwares, stenography, salami attacks, ATM and Credit card frauds, Telecom Frauds

UNIT III Social Media – Definition, Types, advantages and disadvantages – Crimes through social media, victimization through social media – Do's and Don'ts in Social Media – Safe Surfing

UNIT IV Understanding **cyber-criminal behavior** – modus operandi - Criminological , Sociological and Psychological theories relating to cyber-crime behavior.

UNIT V Information Security - Fraud Triangle – Components of Information Security – Desktop Security – Email Security – Web Security – Threats to information security and counter measures

Total hours : 30

COURSE OUTCOMES

- To develop the basic information about cyber security
- To learn about the hacking and hackers
- To understand about Social media and its safe surfing
- To apply the knowledge of information security

Text books: "Cybersecurity in India: A Comprehensive Guide" by Dr. Dhanraj Bhagat

Reference Books: "Cybersecurity and Cyberwar: What Everyone Needs to Know" by P.W. Singer and Allan Friedman

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NAMAKKAL

DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

ACADAMIC YEAR 2023-2024
VALUE ADDED COURSE
ATTENDANCE SHEET

Year/ Semester: I/II

Name of the course: 23BAVC101, 23BAVC301 BUSINESS SUSTANBILITY MANAGEMENT, CYBER SECURITY

S.NO	REG.No	Student Name	12.09.23	13.09.23	14.09.23	15.09.23	16.09.23
1	622122501001	AKELA P	P	P	P	P	P
3	622122501002	ANANDHAKUMAR K	P	A	P	P	P
4	622122501003	ANIK SARAKI L	P	P	P	P	P
5	622122501005	ARULMOZHI S	P	P	P	P	P
6	622122501006	ARUN S	P	P	P	P	P
7	622122501007	ARUNKUMAR K S	P	P	P	A	P
8	622122501008	ARUNKUMAR M	P	P	P	P	P
9	622122501009	BARATHKUMAR S	P	P	P	P	P
10	622122501010	DEVAROOBA A D	P	P	P	P	P
11	622122501011	DHINAKARAN S	A	P	P	P	P
12	622122501012	DILIBABU S	P	P	P	P	P
13	622122501013	DINESHKARTHICK P	P	P	P	P	P
14	622122501014	DURGADEVI S	P	P	P	A	P
15	622122501015	ESAKKIMUTHU M	P	P	P	P	P
16	622122501016	EZHIL MUKIL S	A	P	P	P	P
17	622122501018	GOWTHAM S	P	P	P	P	P
18	622122501019	GOWTHAMAN R	P	P	A	P	A
19	622122501020	GURUSARAN S	P	P	P	P	P
20	622122501021	KALPANA T	A	P	P	P	P
21	622122501022	KAMIL J	P	P	P	A	P
22	622122501023	KARTHICK T	P	P	P	P	P
23	622122501024	KHAMHALEE S K	P	P	P	P	P

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24	622122501025	KISHOR S	P	P	P	P	P
25	622122501026	MANIVASAN V	P	P	P	P	P
26	622122501027	MATHISURYA S	a	P	P	P	P
27	622122501028	MOHAMMED MUSHRAF S	P	P	P	P	P
28	622122501029	MOHANASUNDHARAM C	P	P	P	P	P
29	622122501030	MURALI T	P	P	P	P	P
30	622122501031	NIJANDHAN A	P	P	P	P	P
31	622122501032	NITHYA J	P	P	P	a	P
32	622122501033	POOJA R	P	P	P	P	P
33	622122501034	PRABHAVATHI S	P	P	P	P	P
34	622122501035	PRASANNA VENKATESH T	P	P	P	P	P
35	622122501037	SABARISH N	P	P	P	P	P
36	622122501038	SANGA SIVARAMAIAH	a	P	P	P	P
37	622122501039	SANTHOSH KUMAR R	P	P	P	P	P
38	622122501040	SARANRAJ A	P	P	P	P	P
39	622122501041	SATHYAPRIYA K	P	P	P	a	P
40	622122501042	SELVAKARTHICK S	P	P	P	P	P
41	622122501043	SELVARANI K	P	P	P	P	P
42	622122501044	SEVVANTHI S	P	P	P	P	P
43	622122501045	SHAMITHA DHARSHINI R	a	P	P	P	P
44	622122501046	SHARMILA D	P	P	P	P	P
45	622122501047	SHRAVYA LAKSHMI S	P	P	P	P	P
46	622122501048	SINDHUJA R	a	P	P	a	P
47	622122501049	SOWMYA G	P	P	P	P	P
48	622122501050	SRINIVASAN P	P	P	P	P	P
49	622122501052	SURYAKUMAR M	a	P	P	a	P
50	622122501053	SWETHA G	P	P	P	P	P
51	622122501054	TAMIL SELVAN M	a	P	P	a	P
52	622122501055	THANGASATHIYAKALA A	P	P	P	P	P
53	622122501056	THARUN M	P	P	P	P	P
54	622122501057	UDHAYANIDHI S	P	P	P	P	P

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55	622122501058	VARSHA T	P	P	P	P	P
56	622122501059	VENKATESH M	P	P	P	P	P
57	622122501060	VISHNU M	a	P	P	P	P
58	622122501501	MAJITHA M	P	P	P	P	P
59	622122501701	DEEPIKA M	P	P	P	P	P
1.	622123501001	ABIMANI P	P	P	P	P	P
2.	622123501002	ABINAYA S	P	P	P	P	P
3.	622123501003	ABIRAMI V S	P	P	a	P	P
4.	622123501004	ABISHEK M	P	P	P	P	P
5.	622123501005	AISHWARYA B	P	P	P	P	P
6.	622123501006	AJITHA R	P	P	a	P	P
7.	622123501007	ANBARASAN L	P	P	P	P	P
8.	622123501008	ARAVIND SINGH S P	P	P	P	P	P
9.	622123501009	ARUN R	a	P	P	P	P
10	622123501010	BAGKIYA PRIYA M	P	P	P	P	P
11	622123501011	DEEPA S	P	P	P	P	P
12	622123501012	DEEPIKA K	P	P	a	P	P
13	622123501013	DEEPIKA R	P	P	P	P	P
14	622123501014	DEVADHARSHINI S	P	P	P	P	P
15	622123501015	DHANUSH M V	P	P	P	P	P
16	622123501016	GAYATHRI S	a	P	P	P	P
17	622123501017	GOKUL S	P	P	P	P	P
18	622123501018	GOPINATH R M	P	P	a	P	P
19	622123501019	HAJIRA PARVEEN R	P	P	P	P	P
20	622123501020	HUMERA PARVEEN R	P	P	P	P	P
21	622123501021	ISWARYA S	a	P	P	P	P
22	622123501022	JAYA PREETHI S	P	P	P	P	P
23	622123501023	JEEVITHA K	P	P	P	P	P
24	622123501025	KAVIPRIYA V	P	P	P	P	P
25	622123501026	KAVIRAJAN S	P	P	P	P	P
26	622123501027	KAVIYA G	P	P	P	P	P

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27	622123501028	KISHORE R	P	P	P	P	P
28	622123501029	KOUSIKA A	P	P	P	P	P
29	622123501030	LINGESHWARAN V M	P	P	P	P	P
30	622123501031	MANIBHARATHI R	P	P	P	P	P
31	622123501032	MANOJ R	P	P	P	P	P
32	622123501033	MAVISHA M	P	P	P	P	P
33	622123501034	MURALITHARAN R	P	P	P	P	P
34	622123501035	NAGA SREE KIRAN A	P	a	P	P	P
35	622123501036	NITHISH G	P	P	P	P	P
36	622123501037	PRATHIP R	P	P	P	P	P
37	622123501039	PRIYA DARSHINI S	P	P	P	P	P
38	622123501040	RAM KUMAR P	P	P	a	P	P
39	622123501041	SADHANA P	P	P	P	P	P
40	622123501042	SANGEETHA S	P	P	P	P	P
41	622123501043	SANTHIYA S	P	P	P	P	P
42	622123501044	SANTHOSHKUMAR M	P	P	P	P	P
43	622123501045	SANTHOSHKUMAR S	P	a	P	P	P
44	622123501046	SARAVANAKUMAR M	P	P	P	P	P
45	622123501047	SHA NAWAS SHARIF N	P	P	P	P	P
46	622123501048	SILAMBARASAN M	a	P	P	P	P
47	622123501049	SIVA S	P	P	P	P	P
48	622123501050	SIVANESAN T	P	P	P	P	P
49	622123501053	SURYAPRAKASH P	P	P	P	a	P
50	622123501054	SWETHA D	P	P	P	P	P
51	622123501055	THASLIM J	P	P	P	P	P
52	622123501056	VAISHNAVI T	P	P	P	P	P
53	622123501057	VENKATSRIRAM G	P	P	P	P	P
54	622123501058	VIKNESH V	P	P	P	P	P

COURSE INCHARGE

H.O.D

HEAD OF THE DEPARTMENT
Management Studies
PAAVAI ENGINEERING COLLEGE
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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

CERTIFICATE

This is to certify that

Hajira Parveen

of Paavai Engineering College, studying in first year has successfully completed the value added course Cyber Security . The duration of the course is 30 hours from

12/09/2023 - 16/09/2023

M. Bharani Sonai

Course Incharge

HOD

Principal

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DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

CERTIFICATE

This is to certify that

Dhanush M V

of Paavai Engineering College, studying in first year has successfully completed the value added course Cyber Security . The duration of the course is 30 hours from

12/09/2023-16/9/2023

Course Incharge	HOD	Principal

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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

CERTIFICATE

This is to certify that

Bharath Kumar V

of Paavai Engineering College, studying in second year has successfully completed the value added course Business sustainability management. The duration of the course is 30 hours from

12/09/2023 - 16/09/2023

M. Bharani Sonai

Course Incharge

HOD

Principal

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DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

CERTIFICATE

This is to certify that

Tharun M

of Paavai Engineering College, studying in second year has successfully completed the value added course Business sustainability management. The duration of the course is 30 hours from

12/09/2023 - 16/09/2023

Course Incharge

HOD

Principal

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DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

CERTIFICATE

This is to certify that

Jayapreethi S

of Paavai Engineering College, studying in first year has successfully completed the value added course Women and management concepts. The duration of the course is 30 hours from

12/09/2023 - 16/09/2023

M. Bharani Sonai

Course Incharge

HOD

Principal

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PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)

NAMAKKAL -637 018

Affiliated to Anna University Chennai and approved by AICTE, New Delhi.

Accredited by NBA, New Delhi and NAAC with "A" Grade

DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

DATE: 16.03.2024

CIRCULAR

It is planned to conduct Training Course on **"Women and Management Concepts"** for MBA students from **18.03.2024 to 22.03.2024** date. The interested students are asked to enroll their name to the course coordinator

M. Bharani Eswari, Assistant Professor /MBA on or 10.09.2023. (Spot registration can also be permitted).

Course Co-ordinators: 1. **M. Bharani Eswari, Assistant Professor** /MBA

HOD/MBA

HEAD OF THE DEPARTMENT
Management Studies
PAAVAI ENGINEERING COLLEGE
NH-7, PACHAL (Po) Namakkal - 637018.

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PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

VALUE ADDED COURSE

WOMEN AND MANAGEMENT CONCEPTS

Date: **18.03.2024 to 22.03.2024**

Venue: **classroom**

COURSE INCHARGE

1. **M. BHARANI ESWARI, ASSISTANT** PROFESSOR

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23BAVC201 WOMEN AND MANAGEMENT CONCEPTS

Course Objectives:

1. To understand the role of women in management and leadership in various concepts
2. To explore the challenges and opportunities.
3. To provide insights into gender diversity, equality and inclusity in work places

UNIT 1: MANAGEMENT: Science – Theory – Practice - Evolution of Management Thought and the patterns of Management Analysis - The External Environment Social Responsibility and Ethics.

UNIT II: PLANNING: Nature and Purpose of Planning - Objectives, strategies, Policies, Planning Premises, Decision Making.

UNIT III: ORGANIZING : Nature of Organizing and Entrepreneuring - Organizational structure - Line/Staff Authority, Decentralization - Effective organizing and Organizational Culture - Human Resources Management and Selection - Performance Appraisal

UNIT IV: LEADING : Human Factors – Motivation – Leadership - Committees and Group Decision making.

UNIT V: CONTROLLING: The System and Process of Controlling - Control Techniques and information technology -Productivity - Operations Management - Overall control and toward the Future though Preventive Control - Global aspects in Planning – organizing – Staffing – Leading - Controlling, Cases Studies of Indian Companies in Various aspects of management.

Total hours : 30

Course Outcomes:

- To analyse the contribution of women
- To evaluate the impact of gender diversity
- To identify the barriers to women's advancement concepts and environment

Text books: Management Perspective – A Global Heinz Weilhrich Harold Koontz, McGraw Hill.

Reference Books : Management – Boone and Koontz, McGraw Hill.

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DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

DATE: 16.03.2024

CIRCULAR

It is planned to conduct Training Course on **"Gender Development and Gobalization"** for MBA students from **18.03.2024 to 22.03.2024**. The interested students are asked to enroll their name to the course coordinator

M. Bharani Eswari, Assistant Professor /MBA on or **16.03.2024.** (Spot registration can also be permitted).

Course Co-ordinators: 1. **M. Bharani Eswari, Assistant Professor** /MBA

HOD/MBA

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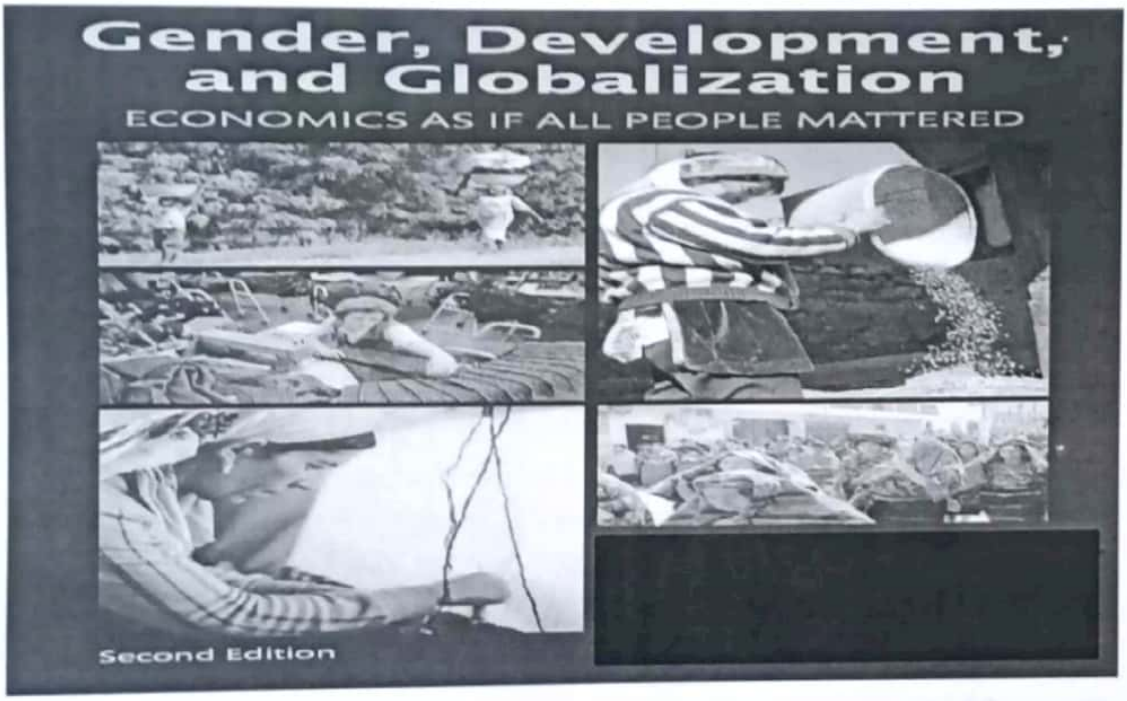
PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

VALUE ADDED COURSE

GENDER, DEVELOPMENT AND GLOBAILIZATION



Date: **18.03.2024 to 22.03.2024.**

Venue: classroom

COURSE INCHARGE

M. BHARANI ESWARI, ASSISTANT PROFESSOR/MBA

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23BAVC401 GENDER, DEVELOPMENT AND GLOBAILIZATION

Course Objectives:

1. To understand the interconncections between gender, development and globalisation
2. To analyse the impact of globalisation on gender roles, opportunities, and in equalitites
3. To study the role of gender in shaping development policies and procedures

UNIT I: GENDER AND DEVELOPMENT: Development - changing concept – from growth to development - concept of human development - Women's role in Development - Different approaches to development: WID - WAD and GAD

UNIT II: GLOBALIZATION : Economic and social Aspects - Impact of Globalization in the light of multiple roles of women - Structural Adjustment Program and Employment of Women.

UNIT III: WOMEN'S EMPOWERMENT : PROGRAMMES & POLICIES

Concept of women empowerment – Women development and empowerment – Programmes

Central and State Government - IRDP – DWACRA – SGSY – Shreeshakti, MGNREGA

UNIT IV: SUPPORT SERVICES TO WOMEN EMPLOYMENT

Employment Generation Schemes - Approaches and Access to Credit (from traditional form of credit to microcredit), Microfinance revolution - SHGs and Economic Empowerment.

UNIT V GENDER PLANNING : Human Development Index – Methods of Activity at Gender Based Analysis – Gender Related Development Index - Gender Empowerment Measures – Mainstreaming Gender development policies – Paradigm shift from women well-being to Women's Empowerment; Gender needs – practical and strategic.

Total hours : 30

Course Outcomes:

- To analyse the key concepts of gender, development and globalization and their interrelations
- To assess the development policies and practices through a gender lens
- To propose the solutions to promote gender equality

Text Books: IAWS, Feminist Approaches to Economic Theories A Report, IAWS, New Delhi,

References: Promilla Kapur (ed), Empowering Indian Women, Publication Division, Government of India,New Delhi, 2000.

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PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)
NAMAKKAL

DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

ACADAMIC YEAR 2023-2024

VALUE ADDED COURSE

ATTENDANCE SHEET

Year/ Semester: I/II

Name of the course: 24BAVC201, 23BAVC401 Women and Management Concepts, Gender Development and Gobalisation

S.NO	REG.No	Student Name	18.03.24	19.03.24	20.03.24	21.03.24	22.03.24
1.	622123501001	ABIMANI P	a	P	P	P	P
2.	622123501002	ABINAYA S	P	P	P	P	P
3.	622123501003	ABIRAMI V S	P	P	P	P	P
4.	622123501004	ABISHEK M	P	P	P	P	P
5.	622123501005	AISHWARYA B	P	P	P	P	P
6.	622123501006	AJITHA R	P	P	a	P	P
7.	622123501007	ANBARASAN L	P	P	P	P	P
8.	622123501008	ARAVIND SINGH S P	P	P	P	P	P
9.	622123501009	ARUN R	P	P	P	P	P
10.	622123501010	BAGKIYA PRIYA M	a	P	P	P	P
11.	622123501011	DEEPA S	P	P	P	P	P
12.	622123501012	DEEPIKA K	P	P	P	a	P
13.	622123501013	DEEPIKA R	P	P	P	P	P
14.	622123501014	DEVADHARSHINI S	P	P	P	P	P
15.	622123501015	DHANUSH M V	P	P	P	P	P
16.	622123501016	GAYATHRI S	a	P	P	P	P
17.	622123501017	GOKUL S	P	P	P	a	P
18.	622123501018	GOPINATH R M	P	P	P	P	P
19.	622123501019	HAJIRA PARVEEN R	P	P	P	P	P

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20.	622123501020	HUMERA PARVEEN R	P	P	P	P	P
21.	622123501021	ISWARYA S	P	P	a	P	P
22.	622123501022	JAYA PREETHI S	P	P	P	P	P
23.	622123501023	JEEVITHA K	P	P	P	P	P
24.	622123501025	KAVIPRIYA V	P	P	P	P	P
25.	622123501026	KAVIRAJAN S	P	P	P	P	P
26.	622123501027	KAVIYA G	P	P	P	P	P
27.	622123501028	KISHORE R	P	P	P	P	P
28.	622123501029	KOUSIKA A	a	P	P	P	P
29.	622123501030	LINGESHWARAN V M	P	P	P	P	P
30.	622123501031	MANIBHARATHI R	P	P	a	P	P
31.	622123501032	MANOJ R	P	P	P	P	P
32.	622123501033	MAVISHA M	P	P	P	P	P
33.	622123501034	MURALITHARAN R	P	P	P	a	P
34.	622123501035	NAGA SREE KIRAN A	P	P	P	P	P
35.	622123501036	NITHISH G	P	P	P	P	P
36.	622123501037	PRATHIP R	a	P	P	P	P
37.	622123501039	PRIYA DARSHINI S	P	P	P	P	P
38.	622123501040	RAM KUMAR P	P	P	P	a	P
39.	622123501041	SADHANA P	P	P	P	P	P
40.	622123501042	SANGEETHA S	P	P	P	P	P
41.	622123501043	SANTHIYA S	P	P	P	P	P
42.	622123501044	SANTHOSHKUMAR M	a	P	P	P	P
43.	622123501045	SANTHOSHKUMAR S	P	P	P	P	P
44.	622123501046	SARAVANAKUMAR M	P	P	P	a	P
45.	622123501047	SHA NAWAS SHARIF N	P	P	P	P	P

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	622123501048	SILAMBARASAN M	a	P	P	P	P
47.	622123501049	SIVA S	P	P	P	P	P
48.	622123501050	SIVANESAN T	P	P	P	P	P
49.	622123501053	SURYAPRAKASH P	P	P	a	P	P
50.	622123501054	SWETHA D	P	P	P	P	P
51.	622123501055	THASLIM J	P	P	P	P	P
52.	622123501056	VAISHNAVI T	a	P	P	P	P
53.	622123501057	VENKATSRIRAM G	P	P	P	P	P
54.	622123501058	VIKNESH V	P	P	P	a	P

COURSE INCHARGE

H.O.D

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Management Studies
PAAVAI ENGINEERING COLLEGE
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PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

CERTIFICATE

This is to certify that

Jayapreethi S

of Paavai Engineering College, studying in first year has successfully completed the value added course Women and management concepts. The duration of the course is 30 hours from

18/3/2024- 22/3/2024

Course Incharge HOD Principal

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DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

CERTIFICATE

This is to certify that

Mavisha M

of Paavai Engineering College, studying in first year has successfully completed the value added course Gender development and globalization .The duration of the course is 30 hours from

18/03/2024 - 22/03/2024

Course Incharge

HOD

Principal

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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

CERTIFICATE

This is to certify that

Santhoshkumar M

of Paavai Engineering College, studying in first year has successfully completed the value added course Women and management concepts. The duration of the course is 30 hours from

18/03/2024 - 22/03/2024

Course Incharge

HOD

Principal

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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

CERTIFICATE

This is to certify that

Lingeshwaran V M

of Paavai Engineering College, studying in first year has successfully completed the value added course Gender development and globalization .The duration of the course is 30 hours from

18/03/2024 - 22/03/2024

Course Incharge

HOD

Principal

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23CAVC101 WEB SERVICES AND ITS API

COURSE OBJECTIVES

To enable the students to

- understand the concept of web services
- impart the knowledge of Restful web services
- know the functionality of SOAP web services

NIT I Introduction to Web Services

Understanding the concept of Web Services - Overview of SOAP and REST - Benefits and drawbacks of different web service architectures

UNIT II RESTful Web Services

Principles of RESTful Architecture - Designing RESTful APIs - Implementing RESTful APIs using frameworks - Consuming RESTful APIs using client libraries

UNIT III SOAP Web Services

SOAP protocol and message structure - Building SOAP-based web services - Working with XML and XSD - Consuming SOAP services in various programming languages

TOTAL PERIODS 30

COURSE OUTCOMES

At the end this course, students will be able to

- design the working level of service architecture
- implement the practice attention to RESTful detail
- analyze the SOAP services

EXT BOOKS

1. Designing Web APIs: Building APIs That Developers Love, Brenda Jin, Saurabh Sahni, and Amir Shevat

REFERENCES

1. Web Services: Principles and Technology, Michael P. Papazoglou

PAAVAI ENGINEERING COLLGE
(AUTONOMOUS)
DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

VALUE ADDED COURSE

WEB SERVICES AND ITS API

ABOUT THE COURSE:

- A **web service** is a set of open protocols and standards that allow data to be exchanged between different applications or systems. Web services can be used by software programs written in a variety of programming languages and running on a variety of platforms to exchange data via computer networks.
- The client invoking the **web service** should be aware of the location of the web service. Second, the client application must understand what the web service does in order to invoke the correct web service.
- **SOAP** stands for "Simple Object Access Protocol." It is a transport-independent messaging protocol. **SOAP** is built on sending XML data in the form of **SOAP** Messages. A document known as an XML document is attached to each message.

COURSE OUTCOMES:

At the end this course, students will be able to

- design the working level of service architecture
- implement the practice attention to RESTful detail
- analyze the SOAP services

DATE &VENUE :

12.09.2023 to 16.09.2023, MCA Laboratory, Paavai Engineering College

COURSE COORDINATOR:

Mrs.R.Deepika, AP/MCA

PAAVAI ENGINEERING COLLEGE

(Autonomous)
Pachal, Namakkal - 637 018.

DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

Date : 08.09.2023

CIRCULAR

It is planned to conduct **Five Days Value Added Course** on **WEB APPLICATIONS AND ITS API** for third semester students from 12.09.2023 to 16.09.2023. The interested students are asked to enroll their names to the course coordinator **Mrs.R.Deepika, AP/MCA** on or before 11.09.2023. (spot registration can also be permitted)

HOD/MCA

Copt to

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PAAVAI ENGINEERING COLLEGE

(Autonomous)

Pachal, Namakkal - 637 018.

DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

Academic Year : 2023-2024

VALUE ADDED COURSE ATTENDANCE SHEET

Year / Sem : II / III

Name of the Course : 23CAVC101 WEB SERVICES AND ITS API

S.No	Reg. Number	Name of thhe Student	12.09.23	13.09.23	14.09.23	15.09.23	16.09.23
1	622122601001	AAFREEN S	/	/	/	/	/
2	622122601002	ABINAYA N	/	/	/	/	/
3	622122601003	ABINAYA T	/	/	/	/	/
4	622122601004	ABISHEK D	/	/	/	/	/
5	622122601005	ANITHA S	/	/	/	/	/
6	622122601006	ARAVIND M	/	/	/	/	/
7	622122601008	ARULSELVAM R	/	/	/	/	/
8	622122601009	ARUNPANDIAN P	/	/	/	/	/
9	622122601010	ASHOK RAJ L	/	/	/	/	/
10	622122601011	ASHRAF A	/	/	/	/	/
11	622122601012	BOOPATHI N	/	/	/	/	/
12	622122601013	BRINDHA V	/	/	/	/	/
13	622122601014	CHRISTOPHER B	/	/	/	/	/
14	622122601015	DAYALI HARIKRISHNA R	AB	AB	AB	AB	AB
15	622122601016	DEEPIKA A	/	/	/	/	/
16	622122601017	DHARANI M	/	/	/	/	/
17	622122601018	DHIVAKAR S	/	/	/	/	/
18	622122601019	DINAKARAN P	/	/	/	/	/
19	622122601020	DINESH S	/	/	/	/	/
20	622122601021	DIVYASRI M	/	/	/	/	/
21	622122601022	DLIP R	/	/	/	/	/
22	622122601023	ELAVARASAN G	/	/	/	/	/
23	622122601024	ELLAPPAN S	/	/	/	/	/
24	622122601026	GANDHISELVAN R	/	/	/	/	/
25	622122601027	GAUTHAMAN S	/	/	/	/	/

26	622122601028	GOKUL C					
27	622122601029	GOKUL G					
28	622122601030	GOKUL K					
29	622122601031	GOKUL S					
30	622122601032	GOKULRAJ R					
31	622122601033	GOWRI R					
32	622122601034	GUNAL S					
33	622122601035	GURUPRASAD A K					
34	622122601036	HARIKRISHNA P					
35	622122601037	HEMA S					
36	622122601038	JAGADEESH S					
37	622122601039	JAYANTHINATHAN V					
38	622122601040	JAYAPRAKASAM A					
39	622122601041	JAYASREE O					
40	622122601042	JEETHESH P					
41	622122601043	JEEVITHA S					
42	622122601044	JEEVITHA S					
43	622122601045	JONES S					
44	622122601046	JOSHYA M					
45	622122601047	KALPANA V					
46	622122601048	KARTHIKEYAN S					
47	622122601050	KRISHNAKUMAR S	AB	AB	AB	AB	AB
48	622122601051	LAVANYA M					
49	622122601052	MADDASANI VENKATA LOKESH KUMAR					
50	622122601053	MAHADEVAN G					
51	622122601054	MAMURUGAN C					
52	622122601055	MOHAMMED ASHIK S	AB	AB	AB	AB	AB
53	622122601056	MOHAN RAJ M					
54	622122601057	NAVALADIYAN M					
55	622122601058	NEGHA R					
56	622122601059	NIROSHA R					
57	622122601060	POOJA K					
58	622122601061	PRADEEP P					

59	622122601062	PRAVEEN S					
60	622122601063	PRIYADARSHINI R					
61	622122601064	PUSHPARAGINI R					
62	622122601065	RAGUL P					
63	622122601067	RAMJI M					
64	622122601068	RAMKUMAR R					
65	622122601069	RAMKUMAR S					
66	622122601071	RITHU C					
67	622122601072	SANDHIYA R					
68	622122601073	SANTHOSH C					
69	622122601074	SARAN S P					
70	622122601075	SARANKUMAR C					
74	622122601076	SARANYA G J					
72	622122601077	SASI V					
73	622122601078	SASIDHARMA T					
74	622122601080	SATHISHKUMAR C					
75	622122601081	SHALINI J					
76	622122601082	SHARMILA M					
77	622122601083	SHARUNITHI D					
78	622122601084	SINDHU S					
79	622122601085	SIVAPRASATH P					
80	622122601086	SNEHA G					
81	622122601087	SNEHA M					
82	622122601088	SNEHA S					
83	622122601089	SNEHASRI S					
84	622122601090	SOWMIYA PRIYA S					
85	622122601091	SOWMIYA R					
86	622122601092	SRIDHARSON E M					
87	622122601093	SRINATH S					
88	622122601094	SUGISIVAM K					
89	622122601095	SWETHA D					
90	622122601096	TAMILZHALAGAN P					
91	622122601097	THETCHINAMOORTHY G					
92	622122601098	VARADHARAJAN M					

93	622122601099	VASANTHKUMAR M	/	/	/	/	/
94	622122601100	VASANTHRAJ V	/	/	/	/	/
95	622122601101	VEERAKUMAR A	/	/	/	/	/
96	622122601102	VELMURUGAN K	/	/	/	/	/
97	622122601103	VELUMANI T	/	/	/	/	/
98	622122601104	VENKADESWARAN B	/	/	/	/	/
99	622122601106	VIJAYDHINAKARAN N P	/	/	/	/	/
100	622122601107	VIMALA V	/	/	/	/	/
101	622122601108	VISHNUPRIYA S	/	/	/	/	/
102	622122601109	VISHWA S	/	/	/	/	/

Course Coordinator

(R. Deepika)

HoD/MCA

HEAD OF THE DEPARTMENT
Master of Computer Application
PAAVAI ENGINEERING COLLEGE
NH-7, PACHAL (Po) Namakkal - 637 018

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of MCA

CERTIFICATE OF PARTICIPATION

This is to certify that

Divyasri.M

of **Paavai Engineering College,** studying in First Year has successfully completed the Value added Course **"Web Services and its API"** The duration of the course is 30 hours **(12.09.2023 to 16.09.2023)**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of MCA

CERTIFICATE OF PARTICIPATION

This is to certify that

Jayanthinathan.V

of **Paavai Engineering College,** studying in First Year has successfully completed the Value added Course **"Web Services and its API"** The duration of the course is 30 hours **(12.09.2023 to 16.09.2023)**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of MCA

CERTIFICATE OF PARTICIPATION

This is to certify that

Kalpana.V

of **Paavai Engineering College,** studying in First Year has successfully completed the Value added Course **"Web Services and its API"** The duration of the course is 30 hours **(12.09.2023 to 16.09.2023)**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of MCA

CERTIFICATE OF PARTICIPATION

This is to certify that

Santhosh.C

of **Paavai Engineering College,** studying in First Year has successfully completed the Value added Course **"Web Services and its API"** The duration of the course is 30 hours **(12.09.2023 to 16.09.2023)**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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Department of MCA

CERTIFICATE OF PARTICIPATION

This is to certify that

Vishnupriya.S

of **Paavai Engineering College,** studying in First Year has successfully completed the Value added Course **"Web Services and its API"** The duration of the course is 30 hours **(12.09.2023 to 16.09.2023)**

Course Coordinator	HOD	Principal

23CAVC201 INTRODUCTION TO MICROSOFT AZURE

COURSE OBJECTIVES

To enable the students to

- learn the concept of Microsoft Azure
- understand the concept of Virtual Machines
- understand the concept of Azure App

UNIT I Introduction to Microsoft Azure

Overview of Microsoft Azure and its services - Setting up an Azure account and subscription -Azure portal and management tools

UNIT II Virtual Machines in Azure

Creating and managing Azure VMs - Virtual networks and network security groups - VM backups and recovery options

UNIT III Azure App Services

Deploying web applications on Azure - App Service plans and scaling - Monitoring and troubleshooting web apps

TOTAL PERIODS 30

COURSE OUTCOMES

At the end this course, students will be able to

- use Microsoft Azure and to Know the basic concepts
- know the Virtual Networks
- deploying the Web Applications

TEXT BOOKS

1. Microsoft Azure For Dummies, Author: Jack A. Hyman

REFERENCES

1. Microsoft Azure Essentials – Fundamentals of Azure, Michael Collier and Robin Shahan

PAAVAI ENGINEERING COLLGE

(AUTONOMOUS)

DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

VALUE ADDED COURSE

INTRODUCTION TO MICROSOFT AZURE

ABOUT THE COURSE:

- **Azure** is a cloud computing platform with an ever-expanding set of services that help you build solutions to meet your business goals. Azure services range from simple web services for hosting your business presence in the cloud to running virtualized computers to run your custom software solutions.
- **Azure virtual machines** (VMs) are one of several types of on-demand, scalable computing resources that Azure offers. Typically, you choose a virtual machine when you need more control over the computing environment than the other choices offer.
- **Azure App Service** enables you to build and host web apps, mobile back ends, and RESTful APIs in the programming language of your choice without managing infrastructure. It supports both Windows and Linux, and enables automated deployments from GitHub, Azure DevOps, or any Git repo..

COURSE OUTCOMES:

At the end this course, students will be able to

- use Microsoft Azure and to Know the basic concepts
- know the Virtual Networks
- deploying the Web Applications

DATE &VENUE :

18.03.2024 to 22.03.2024, MCA Laboratory, Paavai Engineering College

COURSE COORDINATOR:

Mrs.M.Maheswari, AP/MCA

PAAVAI ENGINEERING COLLEGE

(Autonomous)
Pachal, Namakkal - 637 018.

DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

Date : 12.03.2024

CIRCULAR

It is planned to conduct **Five Days Value Added Course** on **INTRODUCTION TO MICROSOFT AZURE** for third semester students from 18.03.2024 to 22.03.2024. The interested students are asked to enroll their names to the course coordinator **Mrs.M.Maheswari, AP/MCA** on or before 16.03.2024. (spot registration can also be permitted)

HOD/MCA

HEAD OF THE DEPARTMENT
Master of Computer Application
PAAVAI ENGINEERING COLLEGE
NH-7, PACHAL (Po) Namakkal - 637 018.

Copt to

Notice Board

PAAVAI ENGINEERING COLLEGE

(Autonomous)
Pachal, Namakkal - 637 018.

DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

Academic Year : 2023-2024

VALUE ADDED COURSE ATTENDANCE SHEET

Year / Sem : I / II

Name of the Course : 23CAVC201 INTRODUCTION TO MICROSOFT AZURE

S.No	Reg. Number	Name of thhe Student	18.03.24	19.03.24	20.03.24	21.03.24	22.03.24
1	622123601001	AADHAVAN R	/	/	/	/	/
2	622123601002	AARTHI P	/	/	/	/	/
3	622123601003	ABARNA G	/	/	/	/	/
4	622123601004	AJAY A	/	/	/	/	/
5	622123601005	ARAVINDH S	/	/	/	/	/
6	622123601006	ARULKUMAR M	/	/	/	/	/
7	622123601007	BHARATHI K	/	/	/	/	/
8	622123601008	BHARATHRAJ G	/	/	/	/	/
9	622123601009	BHAVANEESWARAN S	/	/	/	/	/
10	622123601010	BRINDHA R	/	/	/	/	/
11	622123601011	DEEPIKA E	/	/	/	/	/
12	622123601012	DESIYAN R	/	/	/	/	/
13	622123601013	DHARANI K	/	/	/	/	/
14	622123601014	DHAVANITHI A P	/	/	/	/	/
15	622123601015	DHILEEP T	/	/	/	/	/
16	622123601016	DHIVAHAR U	/	/	/	/	/
17	622123601017	DHONIGURUS S	/	/	/	/	/
18	622123601018	DIVYA N	/	/	/	/	/
19	622123601019	ENIYA R	/	/	/	/	/
20	622123601020	GANESAN.M	/	/	/	/	/
21	622123601021	GOKULAKANNAN P	/	/	/	/	/
22	622123601022	GOMATHI P	/	/	/	/	/
23	622123601023	GOWTHAM M	/	/	/	/	/
24	622123601024	HAFEEFA M	/	/	/	/	/
25	622123601025	HARIHARAN B	/	/	/	/	/

26	622123601026	ILAIYARAJA S					
27	622123601027	IRLA SRIRAMULU	AB	AB	AB	AB	AB
28	622123601028	JAGANATHAN A R					
29	622123601029	JANANI P					
30	622123601030	JANANI S					
31	622123601032	JEEVEETHA AMMU R					
32	622123601033	KALAIVANI C					
33	622123601034	KARTHICK P					
34	622123601035	KAVIYA S					
35	622123601036	KAVYASRI M					
36	622123601037	KEERTHANA S					
37	622123601038	KEERTHI V					
38	622123601039	KIRAN M S	AB	AB	AB	AB	AB
39	622123601040	KRISHNAPRIYA S					
40	622123601041	LATHA M					
41	622123601042	LOGESHWARAN B					
42	622123601043	MOHITHA G					
43	622123601044	MONIKA M					
44	622123601045	MONIKA P					
45	622123601046	MONIKA S					
46	622123601047	NAVADHARSHINI S					
47	622123601048	NAVIN KUMAR D					
48	622123601050	NISHANTH V					
49	622123601051	NITHESH KUMAR R					
50	622123601052	NITHILA S					
51	622123601053	NITHISRI N K					
52	622123601054	NIVEDHA R					
53	622123601055	NIVETHA N					
54	622123601056	PRABHAKAR V C					
55	622123601057	PRASANNA K					
56	622123601058	PRASANTH K					
57	622123601059	PRIYADHARSHINI P					
58	622123601060	PRIYADHARSHINI S					
59	622123601061	RAJKANNAN R					

60	622123601062	RANJITHKUMAR S M	/	/	/	/	/
61	622123601063	RENUGA K	/	/	/	/	/
62	622123601064	RUBALI R	/	/	/	/	/
63	622123601065	RUBIKA L	/	/	/	/	/
64	622123601066	SABARISH M N	/	/	/	/	/
65	622123601067	SANDHIYA B	/	/	/	/	/
66	622123601068	SANDHIYA S	/	/	/	/	/
67	622123601069	SANTHIYA G	/	/	/	/	/
68	622123601070	SANTHOSH M	/	/	/	/	/
69	622123601071	SARAVANAKUMAR S	/	/	/	/	/
70	622123601072	SATHIYAPRIYA B	/	/	/	/	/
71	622123601073	SELVAVARSHINI S	/	/	/	/	/
72	622123601074	SHAGINA GRACE P	/	/	/	/	/
73	622123601075	SHANTHINI D	/	/	/	/	/
74	622123601076	SHEELA S	/	/	/	/	/
75	622123601078	SNEGA K	/	/	/	/	/
76	622123601079	SNEHA C	/	/	/	/	/
77	622123601080	SNEKA B	/	/	/	/	/
78	622123601081	SOWMIYA B	/	/	/	/	/
79	622123601082	SRIRAM R	AB	AB	AB	AB	AB
80	622123601083	SUSITRA S	/	/	/	/	/
81	622123601084	SWETHA T	/	/	/	/	/
82	622123601085	VASANTHAN M	/	/	/	/	/
83	622123601086	VASUKI S	/	/	/	/	/
84	622123601087	VIDHYASHRI B	/	/	/	/	/
85	622123601088	VISHNUPRIYA M	/	/	/	/	/
86	622123601089	VISUWESWAR R	/	/	/	/	/
87	622123601090	YUVASRI G	/	/	/	/	/

M.Mahi

Course Coordinator

[M.MAHESWARI]

HoD/MCA

HEAD OF THE DEPARTMENT
Master of Computer Application
BHAVAI ENGINEERING COLLEGE
P.T. PACHAL (Po) Namakkal - 637 018

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of MCA

CERTIFICATE OF PARTICIPATION

This is to certify that

Aarthi.P

of **Paavai Engineering College,** studying in First Year has successfully completed the Value added Course **"Introduction to Microsoft Azure"** The duration of the course is 30 hours **(18.03.2024 to 23.03.2024)**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of MCA

CERTIFICATE OF PARTICIPATION

This is to certify that

Bhavaneeshwaran.S

of **Paavai Engineering College,** studying in First Year has successfully completed the Value added Course **"Introduction to Microsoft Azure"** The duration of the course is 30 hours **(18.03.2024 to 23.03.2024)**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of MCA

CERTIFICATE OF PARTICIPATION

This is to certify that

Mohitha.G

of **Paavai Engineering College,** studying in First Year has successfully completed the Value added Course **"Introduction to Microsoft Azure"** The duration of the course is 30 hours **(18.03.2024 to 23.03.2024)**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of MCA

CERTIFICATE OF PARTICIPATION

This is to certify that

Nishanth.V

of **Paavai Engineering College,** studying in First Year has successfully completed the Value added Course **"Introduction to Microsoft Azure"** The duration of the course is 30 hours **(18.03.2024 to 23.03.2024)**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of MCA

CERTIFICATE OF PARTICIPATION

This is to certify that

Sneha.C

of **Paavai Engineering College,** studying in First Year has successfully completed the Value added Course **"Introduction to Microsoft Azure"** The duration of the course is 30 hours **(18.03.2024 to 23.03.2024)**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MEDICAL ELECTRONICS

DATE: 25.08.2023

CIRCULAR

It is planned to conduct Five days training course on "**21MDVC301 - EMBEDDED PROGRAMMING USING ARDUINO"** for 7th semester students from 12.09.2023 to 16.09.2023. The interested students are asked to enrol their name to the course coordinator Mr.S.JOTHEESHWARAN, AP/MDE on or before 08.09.2023.

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HOD

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MEDICAL ELECTRONICS

VALUE ADDED COURSE

20MDVC301- Embedded programming using Arduino

COURSE CONTENT

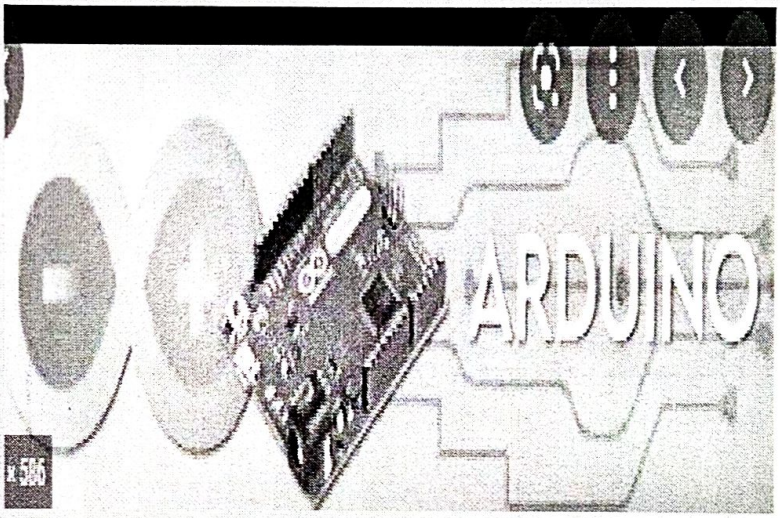
Module 1: Arduino Basics

Module 2: Arduino Function Libraries

Module 3: Arduino Sensors And Interfacing

Module 4: Arduino Interfacing And Real Time Projects

Module 5: Programming



DATE: 18.03.2024 - 22.03.2024

VENUE: BIOMEDICAL SIGNAL PROCESSING LABORATORY

COURSE COORDINATOR: Mr. S.JOTHEESWARAN.,AP/MDE.

21MDVC301 EMBEDDED PROGRAMMING USING ARDUINO 0 0 2 1

COURSE OBJECTIVES

To enable the students to

- learn the basic of arduino and the programming language
- acquire knowledge on arduino function libraries
- understand the real time projects using arduino and the interfacing modules

UNIT I ARDUINO BASICS **6**

Basics of Arduino –Overview, Board Description, Installation, Program Structure, Data types, Variables & Constants, operators, Control Statements, Loops, Functions, Strings, String Object, Time, Arrays

UNIT II ARDUINO FUNCTION LIBRARIES **6**

Function Libraries- I/O Functions, Advanced I/O Functions, Character Functions, Math Library, Trigonometric Functions, Due & Zero, Pulse width Modulation, Random Numbers, Interrupts, Communication, Inter Integrated Circuits, Serial Peripheral Interface, Arduino UART,

UNIT III ARDUINO SENSORS AND INTERFACING **9**

Sensors – Humidity Sensor, Temperature Sensor, Water Detector/Sensor, PIR Sensor, Ultrasonic Sensor; Connecting switches (Magnetic Relay Switches- Types of Relay, Controlling electrical appliances with electromagnetic relays, working as a matrix keypad,

UNIT IV ARDUINO INTERFACING AND REAL TIME PROJECTS **9**

Arduino Interfacing - Using the keypad library to interface with Arduino, Interfacing servo motors with Arduino, Using a buzzer as an alarm unit, GSM/GPRS arduino interfacing, Intelligent home locking system, intelligent water level management system, home automation using RFID, Automatic hand sanitizer

TOTALPERIODS 30

COURSE OUTCOMES

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

- learn the basic of arduino and the programming language
- acquire knowledge on arduino function libraries
- understand the real time projects using arduino and the interfacing modules

TEXT BOOKS

Simon Monk, "Programming Arduino Getting Started with Sketches", January 2012

PAAVAI ENGINEERING COLLEGE (AUTONOMUS)

DEPARTMENT OF MEDICAL ELECTRONICS

VALUE ADDED COURSE ATTENDANCE SHEET

ACADEMIC YEAR: 2023-2024 DATE: 12.09.2023 to 16.09.2023

NAME OF THE COURSE: 21MDVC301 - EMBEDDED PROGRAMMING USING ARDUINO

S.NO	NAME OF THE STUDENT	REGISTER NUMBER	12/9	13/9	14/9	15/9	16/9.
1	AKASH.M	622121110001	1	1	1	1	1
2	AKASHPRATHAP.A	622121110002	1	1	1	1	1
3	ARTHI.K	622121110003	1	1	1	1	1
4	DEIVANAI.M	622121110005	1	1	1	1	1
5	DHIVAKAR.S	622121110007	1	9	1	1	1
6	GEETHANJALI.C	622121110008	1	1	1	1	1
7	HARINI.K	622121110009	1	1	1	1	1
8	JAGADEESHWARAN.V	622121110010	1	1	1	1	1
9	KABILAN.P	622121110011	9	1	1	1	1
10	KAVINILAVU.S	622121110013	1	1	1	1	1
11	KEERTHIKA.K	622121110014	1	9	1	1	1
12	KEERTHI.R	622121110015	1	1	1	1	1
13	KIRIJA.S	622121110016	1	1	1	1	1
14	MADHUMITHA.T	622121110017	1	1	1	1	9
15	MAHESHWARI.G	622121110018	1	1	1	1	1
16	MANIKANDAN.S	622121110019	1	1	1	1	1
17	MANOBHARATHI.P	622121110020	1	1	1	1	1
18	MURUGANANTHAM.M	622121110021	1	1	1	1	1
19	NAGESHWARI.S	622121110022	1	1	1	1	1
20	PANDIMEENA.B	622121110023	1	1	1	1	1
21	PRATHAP.M	622121110024	9	1	1	1	9
22	RADHIKA.R	622121110025	1	1	1	1	1
23	RAJA.K	622121110026	1	1	1	1	1
24	RUDHRESH.J	622121110028	1	1	1	1	1
25	SANTHIYA.C	622121110031	1	1	1	1	1
26	SATHYA.C	622121110032	1	1	1	1	1
27	SIVASEELAN.P	622121110033	1	1	1	1	1
28	SUGANRAJ.P	622121110034	1	1	1	1	1
29	TAMILZHARASU.S	622121110036	1	1	1	1	1
30	THEJASRI.K	622121110037	1	1	1	1	1
31	THIRUMOORTHY.M	622121110038	1	1	1	1	1
32	VANITHA.M	622121110039	1	1	1	1	1

33	VIVETHA.M	622121110040	1	1	1	1	1
34	YOGANANTHAN.S	622121110041	1	1	1	1	1

COURSE COORDINATOR

HOD

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Medical Electronics

CERTIFICATE

This is to certify

PANDIMEENA.B

of Paavai Engineering College, studying in **THIRD Year** has successfully completed the **EMBEDDDED PROGRAMMING USING ARUDINO** course from 18.3.2024 to 22.03.2024

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Medical Electronics

CERTIFICATE

This is to certify

DEIVANAI.M

of Paavai Engineering College, studying in THIRD Year has successfully completed the **EMBEDDDED PROGRAMMING USING ARUDINO** course from 18.3.2024 to 22.03.2024

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Medical Electronics

CERTIFICATE

This is to certify

SATHYA.C

of Paavai Engineering College, studying in THIRD Year has successfully completed the **EMBEDDDED PROGRAMMING USING ARUDINO** course from 18.3.2024 to 22.03.2024

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MEDICAL ELECTRONICS

DATE: 08.03.2024

CIRCULAR

It is planned to conduct Five days training course on "**21MDVC401 - LabVIEW Programming**" for 8th semester students from 25.3.2024 to 30.03.2024. The interested students are asked to enrol their name to the course coordinator Ms. M. ABINAYA, AP/MDE on or before 16.03.2024

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HOD

21MDVC401 **LABVIEW PROGRAMMING** **0 0 2 1**

COURSE OBJECTIVES

To enable the students to

- learn the basic of LABVIEW
- acquire the knowledge on DAQ using LABVIEW
- acquire the knowledge on embedded device using LABVIEW

UNIT I BASICS OF LABVIEW **8**

Basics of LABVIEW - Numericals, Booleans and comparators, Loops, For loops, while loops, Flat sequence, Structures, Case structure, Event structure, Formula node, Local and global variable, Data handling instruction, Strings, Matrix, File IO, Clusters, Waveform and wavechart, Final Module test

UNIT II LABVIEW WITH DAQ-USB-6009 **10**

Theory of DAQ card; Hardware Interfaces- Acquiring and generation of Digital signals, Acquiring analog values in DE and RSE method, Generating analog output, Integration of DAQ card with embedded devices

UNIT III EMBEDDED DEVICE WITH LABVIEW **12**

Standalone file and installer development, web server, Remote panel creation and testing, Webserver monitoring with LabVIEW, Hardware interfacing with LabVIEW, UART-Communication, Simplex, Half Duplex, Full Duplex, Led with switch, Lm35 sensor, RFID, Bluetooth, Zigbee, Glucose Level Monitoring, Heart beat detection

TOTAL PERIODS 30

COURSE OUTCOMES

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

- learn the tools involved in the LABVIEW
- apply the knowledge on DAQ using LABVIEW
- apply the knowledge on embedded device using LABVIEW

TEXT BOOKS

1. National Instruments Inc.http://www.ni.com/academic/students/learn-labview

NAME OF THE COURSE: 21MDVC401 - LabVIEW Programming

S.NO	NAME OF THE STUDENT	REGISTER NUMBER	25.3.24	27.3.24	28.3.24	29.3.24	30.3.24
1	AKASH.M	622121110001	1	1	a	1	1
2	AKASHPRATHAP.A	622121110002	1	1	a	1	1
3	ARTHI.K	622121110003	1	1	a	1	1
4	DEIVANAI.M	622121110005	1	a	1	1	1
5	DHIVAKAR.S	622121110007	1	1	1	1	1
6	GEETHANJALI.C	622121110008	1	1	1	1	a
7	HARINI.K	622121110009	1	1	1	a	1
8	JAGADEESHWARAN.V	622121110010	1	1	1	1	a
9	KABILAN.P	622121110011	1	1	1	1	1
10	KAVINILAVU.S	622121110013	1	1	1	1	a
11	KEERTHIKA.K	622121110014	1	1	1	1	1
12	KEERTHI.R	622121110015	1	a	1	1	1
13	KIRIJA.S	622121110016	1	1	1	1	1
14	MADHUMITHA.T	622121110017	1	1	1	1	1
15	MAHESHWARI.G	622121110018	1	1	1	1	1
16	MANIKANDAN.S	622121110019	1	1	a	1	1
17	MANOBHARATHI.P	622121110020	a	1	1	a	1
18	MURUGANANTHAM.M	622121110021	1	1	1	1	1
19	NAGESHWARI.S	622121110022	1	1	1	1	1
20	PANDIMEENA.B	622121110023	a	a	1	1	1
21	PRATHAP.M	622121110024	1	1	1	1	1
22	RADHIKA.R	622121110025	1	1	1	1	1
23	RAJA.K	622121110026	1	1	1	1	1
24	RUDHRESH.J	622121110028	a	1	a	1	1
25	SANTHIYA.C	622121110031	1	1	1	1	1
26	SATHYA.C	622121110032	1	1	1	1	1
27	SIVASEELAN.P	622121110033	1	1	1	1	a
28	SUGANRAJ.P	622121110034	1	1	1	a	1
29	TAMILZHARASU.S	622121110036	1	a	1	1	1
30	THEJASRI.K	622121110037	1	1	1	1	1
31	THIRUMOORTHY.M	622121110038	1	1	1	1	1
32	VANITHA.M	622121110039	1	1	1	1	a
33	VIVETHA.M	622121110040	1	1	a	a	a
34	YOGANANTHAN.S	622121110041	1	a	1	1	1

COURSE COORDINATOR

HOD

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Medical Electronics

CERTIFICATE

This is to certify

ARTHI.K

of Paavai Engineering College, studying in third Year has successfully completed the LabVIEW PROGRAMMING course from **12.09.2023 to 16.09.2023**

Course Coordinator | HOD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Medical Electronics

CERTIFICATE

This is to certify

HARINI.K

of Paavai Engineering College, studying in third Year has successfully completed the LabVIEW PROGRAMMING course from **12.09.2023 to 16.09.2023**

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Medical Electronics

CERTIFICATE

This is to certify

PRATHAP.M

of Paavai Engineering College, studying in **third Year** has successfully completed the LabVIEW PROGRAMMING course from **12.09.2023 to 16.09.2023**

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MEDICAL ELECTRONICS

DATE: 25.08.2023

CIRCULAR

It is planned to conduct Five days training course on "**20MDVC301 – OPEN SOURCE PROGRAMMING USING LINUX**" for 5th semester students from 12.09.2023 to 16.09.2023. The interested students are asked to enrol their name to the course coordinator Ms.B.NIRANJANA DEVI, AP/MDE on or before 09.09.2022.

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PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MEDICAL ELECTRONICS

VALUE ADDED COURSE

20MDVC301- OPEN SOURCE PROGRAMMING USING LINUX

COURSE CONTENT

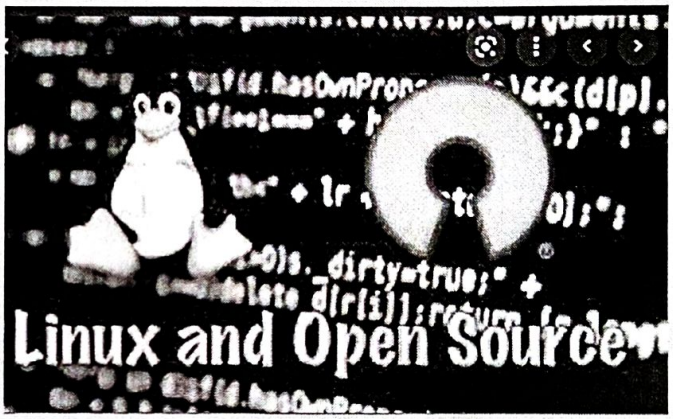
Module 1: Introduction to LINUX

Module 2: Basics in Web Design

Module 3: Introduction to Open source

Module 4: Tagging Elements

Module 5: Applications



DATE: 12.09.2023 - 16.09.2023

VENUE: BIOMEDICAL SIGNAL PROCESSING LABORATORY

COURSE COORDINATOR: Ms.R.SUGANYA, AP/MDE

20MDVC301 OPEN SOURCE PROGRAMMING USING LINUX 1 0 0 1

COURSE OBJECTIVES

To enable the students to

- learn the basic of LINUX
- learn the system components of Text editor
- understand the system administration and management

UNIT I LINUX ORIENTATION 4

Linux Orientation – Kernel vs. Operating System and Tools, History of Linux, UNIX and LINUX, Linux Distributions, GUI, KDE Desktop, GNOME and KDE, Linux Standard Base, Software Environment, sudo, workspaces,

UNIT II SYSTEM COMPONENTS 4

Introduction to Text Editors, Vi Editors, emacs Editor, Development of shells, Introduction to filesystems, using fdisk, partitioning considerations

UNIT III COMMAND DETAILS 4

File transfer Tools, Graphical Monitoring tools, System Monitoring, Kernel Modules, Device Management, using udev, using systemctl, Basic Commands and Utilities, Monitoring and Performance Utilities, Installing and Running ksysguard

UNIT IV SYSTEM ADMININSTRATION AND MANAGEMENT 3

System Installation, Using Graphical Package Management, Software management and packaging

TOTAL PERIODS 15

COURSE OUTCOMES

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

- learn the basic of LINUX
- learn the system components of Text editor
- understand the system administration and management

TEXT BOOKS

Paul Cobbaut, "The Ultimate Linux Newbie Guide", PHI publications, 2015

PAAVAI ENGINEERING COLLEGE (AUTONOMUS)

DEPARTMENT OF MEDICAL ELECTRONICS

VALUE ADDED COURSE ATTENDANCE SHEET

ACADEMIC YEAR: 2023-2024 DATE: 12.09.2023 to 16.09.2023

NAME OF THE COURSE: 20MDVC301- OPEN SOURCE PROGRAMMING USING LINUX

S.No	Register Number	Student Name	12/9	13/9	14/9	15/9	16/9.
1	20110002	ELAMUGILAN M	✓	✓	✓	✓	✓
2	20110003	ELAVARASAN V	✓	✓	✓	✓	✓
3	20110004	INITHA S	✓	✓	✓	✓	✓
4	20110005	JAISONPRABHU S	✓	✓	✓	✓	✓
5	20110006	JANA P	✓	✓	✓	✓	✓
6	20110007	JANANI J	✓	✓	✓	✓	✓
7	20110008	JOTHIPRAKASH P	✓	✓	✓	✓	✓
8	20110009	KAVIYA R	✓	✓	✓	✓	✓
9	20110010	KIRUTHIKA S	✓	✓	✓	✓	✓
10	20110011	MAIYALAGAN D	✓	✓	✓	✓	✓
11	20110012	MAKILNATH M	✓	✓	✓	✓	✓
12	20110013	NIVETHA D	✓	✓	✓	✓	✓
13	20110014	PICHANDI R	✓	✓	✓	✓	✓
14	20110015	POUNKUMAR R	✓	✓	✓	✓	✓
15	20110017	RANJITH M	✓	✓	✓	✓	✓
16	20110018	RAVICHANDRAN R	✓	✓	✓	✓	✓
17	20110019	SHARAN M	✓	✓	✓	✓	✓
18	20110020	SUNILGAVASKAR R	✓	✓	✓	✓	✓
19	20110021	SURYAPRAKASH G	✓	✓	✓	✓	✓
20	20110022	VASUDEVAN R	✓	✓	✓	✓	✓
21	20110023	VIGNESHWAR S	✓	✓	✓	✓	✓
22	20110024	YUVASRI M	✓	✓	✓	✓	✓
23	20110025	YUVASRI V	✓	✓	✓	✓	✓

COURSE COORDINATOR

HOD

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Medical Electronics

CERTIFICATE

This is to certify

ELAVARASAN V

of Paavai Engineering College, studying in final Year has successfully completed the OPEN SOURCE PROGRAMMING USING LINUX course from 12.09.2023 to 16.09.2023

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Medical Electronics

CERTIFICATE

This is to certify

JANA P

of Paavai Engineering College, studying in final Year has successfully completed the OPEN SOURCE PROGRAMMING USING LINUX course from 12.09.2023 to 16.09.2023

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Medical Electronics

CERTIFICATE

This is to certify

YUVASRI M

of Paavai Engineering College, studying in final Year has successfully completed the OPEN SOURCE PROGRAMMING USING LINUX course from 12.09.2023 to 16.09.2023

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MEDICAL ELECTRONICS

DATE: 08.03.2024

CIRCULAR

It is planned to conduct Five days training course on "**20MDVC401 - MATLAB programming**" for 6th semester students from 25.3.2024 to 30.03.2024. The interested students are asked to enrol their name to the course coordinator Dr. S.Rajasekeran, AP/BME on or before 16.03.2024.

COPY TO: NOTICE BOARD

HOD

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF BIOMEDICAL ENGINEERING

VALUE ADDED COURSE

20MDVC401- MATLAB PROGRAMMING

COURSE CONTENT

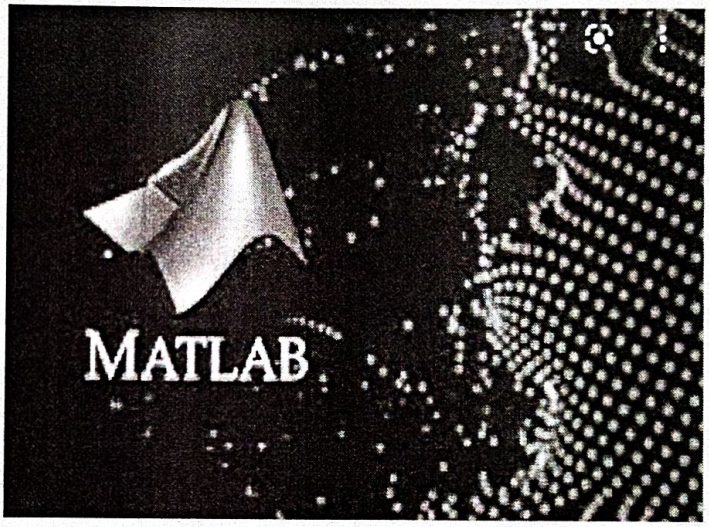
Module 1: Basics of MATLAB

Module 2: Root Finding and Plotting

Module 3: Vectors, Fractals and Chaos

Module 4: Biomedical Signal and Image Processing

Module 5: Graphical User Interface



DATE: 18.03.2024 – 22.03.2024

VENUE: BIOMEDICAL SIGNAL PROCESSING LABORATORY

COURSE COORDINATOR: Dr. S.RAJASEKERAN, AP/BME

20MDVC401 MATLAB PROGRAMMING 0 0 2 1

COURSE OBJECTIVES

To enable the students to

- learn the basic of MATLAB programming
- analyze the biomedical signals and images using matlab programming
- implement the programming in GUI

UNIT I BASICS OF MATLAB PROGRAMMING 4

Basics of MATLAB - Introduction to programming, Command prompt and expressions, List, Vectors, and Matrices, Variables

UNIT II ROOT FINDING AND PLOTTING 4

Root Finding- Newton's Method, The Secant Method, More Sub-Indexing; Plotting – Basics of Attraction

UNIT III VECTORS, FRACTALS AND CHAOS 4

Vectors – Complex Numbers, User defined functions, Scope ; Fractals – Logistic Equation, Loops, Break and Continue, Truth Statements and Logical Indexing ; Debugging with Matlab, Files I/O

UNIT IV BIOMEDICAL SIGNAL AND IMAGE PROCESSING 9

One-dimensional signal and images, Two-dimensional or even three- or four-dimensional data, filtering and convolution, image-processing algorithms

UNIT V GRAPHICAL USER INTERFACE 9

GUI – Create, Design, Add Components; User Interactions – Trigger Event, Callback functions

TOTAL PERIODS 30

COURSE OUTCOMES

Upon the completion of the course, students will be able

- to learn the tools involved in the MATLAB
- analyze the biomedical signals and images using matlab programming
- implement the programming in GUI

TEXT BOOKS

1. MATLAB® Programming for Biomedical Engineers and Scientists, Andrew P.King, Paul Aljabar,
2. https://ocw.mit.edu/courses/mathematics/18-s997-introduction-to-matlab-programming-fall2011/index.htm

PAAVAI ENGINEERING COLLEGE (AUTONOMUS)

DEPARTMENT OF MEDICAL ELECTRONICS

VALUE ADDED COURSE ATTENDANCE SHEET

ACADEMIC YEAR: 2022-2023 DATE: 18.03.2024 to 22.03.2024

NAME OF THE COURSE: 20MDVC401- MATLAB PROGRAMMING

S.No	Register Number	Student Name	18/3	19/3	20/3	21/3	22/3
1	20110002	ELAMUGILAN M	✓	✓	✓	✓	✓
2	20110003	ELAVARASAN V	✓	✓	✓	✓	✓
3	20110004	INITHA S	✓	✓	✓	✓	✓
4	20110005	JAISONPRABHU S	✓	✓	✓	✓	✓
5	20110006	JANA P	✓	✓	✓	✓	✓
6	20110007	JANANI J	✓	✓	✓	✓	✓
7	20110008	JOTHIPRAKASH P	✓	✓	✓	✓	✓
8	20110009	KAVIYA R	✓	✓	✓	✓	✓
9	20110010	KIRUTHIKA S	✓	✓	✓	✓	✓
10	20110011	MAIYALAGAN D	✓	✓	✓	✓	✓
11	20110012	MAKILNATH M	✓	✓	✓	✓	✓
12	20110013	NIVETHA D	✓	✓	✓	✓	✓
13	20110014	PICHANDI R	✓	✓	✓	✓	✓
14	20110015	POUNKUMAR R	✓	✓	✓	✓	✓
15	20110017	RANJITH M	✓	✓	✓	✓	✓
16	20110018	RAVICHANDRAN R	✓	✓	✓	✓	✓
17	20110019	SHARAN M	✓	✓	✓	✓	✓
18	20110020	SUNILGAVASKAR R	✓	✓	✓	✓	✓
19	20110021	SURYAPRAKASH G	✓	✓	✓	✓	✓
20	20110022	VASUDEVAN R	✓	✓	✓	✓	✓
21	20110023	VIGNESHWAR S	✓	✓	✓	✓	✓
22	20110024	YUVASRI M	✓	✓	✓	✓	✓
23	20110025	YUVASRI V	✓	✓	✓	✓	✓

COURSE COORDINATOR

HOD

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Medical Electronics

CERTIFICATE

This is to certify

NIVETHA D

of Paavai Engineering College, studying in **FINAL Year** has successfully completed the **MATLAB PROGRAMMING** course from 18.3.2024 to 22.03.2024

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Medical Electronics

CERTIFICATE

This is to certify

JANANI.J

of Paavai Engineering College, studying in **FINAL Year** has successfully completed the **MATLAB PROGRAMMING** course from 18.3.2024 to 22.03.2024

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Medical Electronics

CERTIFICATE

This is to certify

YUVASRI V

of Paavai Engineering College, studying in **THIRD Year** has successfully completed the **MATLAB PROGRAMMING course** from 18.3.2024 to 22.03.2024

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

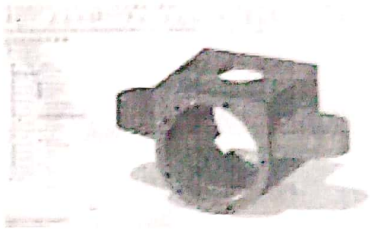
(AUTONOMOUS)

DEPARTMENT OF MECHANICAL ENGINEERING

23MEVC301- CREO

ABOUT THE COURSE:

This course aims to help product designers and engineers in developing a product design virtually. Creo is equipped with all the capabilities that are required for completing a product design. This course in Creo will help in sketching, modeling, validation of design, and visualize the product design



INTENDED AUDIENCE:

- II-, III- and IV-year students those who were interested in product design.
- Students those interested to know modelling and assembly of components of a product.
- One who wants to know the specific need of CREO mechanical field.

DURATION OF THE COURSE:

Period: 12.09.2023 to 16.09.2023

Total hours: 30 Hours (6 Hours /day)

COURSE OUTCOMES:

At the end of this course students can be able to

- Apply/develop solutions or to do research in the areas of Design and simulation in Mechanical Engineering.
- developing and applying computer software and hardware to mechanical design and manufacturing fields.
- Review and document the knowledge developed by scholarly predecessors.
- Design and validate technological solutions to defined problems and communicate clearly and effectively for the practical application of their work.

COURSE IN CHARGE:

1. Mr.R.MEIYAZHAGAN,AP/MECH, PEC
2. Mr.T.THANGAVEL, AP/MECH, PEC

VENUE:

CAD/CAM LAB,

PAAVAI ENGINEERING COLLEGE

Note: Interested students enroll their name to the course in charge on or before 03.09.2023.

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PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MECHANICAL ENGINEERING

Date: 29.08.2023

CIRCULAR

In our department it is planned to conduct the course on "**23MEVC301-CREO"** for our student's from12.09.2023 to 16.09.2023. The students who are interested to improve their knowledge in designing of product using modelling software can register their name to the course in charge "**Mr.R.MEIYAZHAGAN, AP/MECH, PEC, AP/MECH,"** on or before **03.09.2023.**

COURSE IN CHARGE:

1. **Mr.R.MEIYAZHAGAN,AP/MECH, PEC**
2. **Mr.T.THANGAVEL, AP/MECH, PEC**

Head of the Department

Department of Mechanical Engineering

Copy to:

1. All Class rooms.
2. Department Notice board

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23MEVC301 CREO

COURSE OBJECTIVES

To enable the students to

- how to organize the drawing within the printing area.
- Write the single text and multi-line text in the drawing.
- make the hatching to provide the sectioning area.

1. **Drawing Templates**

   Using Template Files (.dwt) to Make New Drawing Exploring what Settings and Elements are saved with Templates?

2. **Organizing Your Drawing with Layer and Advanced Object Types**

   Layer States Properties by Layer Layer Tools. Polylines ,Arcs ,Polygons, Ellipses

3. **Advanced Editing Commands and Inserting Blocks**

   Trim and Extend, Fillet and Chamfer, Polyline Edit and Spline, Offset and Explode Join, The Insert Block Command Inserting Blocks with Tool Palettes Dynamic Blocs Migrating Blocks and other Elements between Drawings with Design Center.

4. **Text**

   The Multiline Text Tool the Single Line Text Tool Editing Text Text in Model Space vs. Paper Space the Multilayer Tool

5. **Hatching**

   The Hatch Command The Hatch Editor Ribbon Tab Saving and Applying Hatches with Tool Palettes.

TOTAL PERIODS 30

COURSE OUTCOMES

At the end this course, students will be able to

- Create the drawing within the printing zone.
- Write the text and hatching in the drawing zone.
- Create the drawing by using advanced tools.

TEXT BOOKS

1.CAD Exercises, Sachidanand Jha

REFERENCES

1. AutoCAD 2020 Beginning and Intermediate, Munir Hamad.

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PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR: 2023 -2024

ATTENDANCE SHEET

Year/Semester : II / III

Name of the course: 23MEVC301- CREO

Date: 12.09.23

Sl.No	Register Number	Name of the student	12.09.23	13.09.23	14.09.23	15.09.23	16.09.23
1.	622122107001	ADITHYA DEV	/	/	/	/	/
2.	622122107002	AMARNATH M	/	/	/	/	/
3.	622122107003	ANANDHARAJ A	/	/	/	/	/
4.	622122107004	ANBURAJ A	/	/	/	/	/
5.	622122107005	ARJUN K	/	/	/	/	/
6.	622122107007	BALAJI K	/	/	/	/	/
7.	622122107008	BHARATH KUMAR R	/	/	/	/	/
8.	622122107009	DEEPAKARAN P	/	/	/	/	/
9.	622122107010	DEEPAKKUMAR K	/	/	/	/	/
10.	622122107011	DEEPAKRAJ M (*Sports*)	/	/	/	/	/
11.	622122107012	DEGARASAN R	/	/	/	/	/
12.	622122107013	DEVADHARSHAN M	a	a	a	a	a
13.	622122107015	DHANUSH M	/	/	/	/	/
14.	622122107016	DHANUSH S	/	/	/	/	/
15.	622122107017	DHARSAN T	/	/	/	/	/
16.	622122107018	DINESH V	/	/	/	/	/
17.	622122107019	DIVAKAR C	/	/	/	/	/
18.	622122107020	ELUMALAI P	/	/	a	/	/
19.	622122107021	GOKUL M K	/	/	/	/	/
20.	622122107022	GOKULPRASATH R	/	/	/	/	/
21.	622122107023	HARIHARAN S	/	/	/	/	/
22.	622122107024	IYAPPAN G	/	/	/	/	/
23.	622122107025	JAYACHANDHIRAN J	/	/	/	/	/
24.	622122107026	JEEVA AKASH S	/	/	/	/	/

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Sl.No	Register Number	Name of the student	12.09.23	13.09.23	14.09.23	15.09.23	16.09.23
25.	622122107027	JEEVABHARATHI R	/	/	/	/	/
26.	622122107028	JEGATHISH R	/	/	/	/	/
27.	622122107029	KARTHICK S ***(Sports)***	/	/	/	/	/
28.	622122107030	KRISHNA PRASATH P	/	a	/	/	/
29.	622122107031	LOGAPRIYAN G	/	/	/	/	/
30.	622122107032	LOGESHWARAN S	/	/	/	/	/
31.	622122107033	MADHAN A	/	/	/	/	/
32.	622122107034	MADHINESH K	/	/	/	/	/
33.	622122107035	MANEES B	/	/	/	/	/
34.	622122107036	MANOJ L	/	/	/	/	/
35.	622122107037	MOHAMED ASHIK ALI M	/	/	/	/	/
36.	622122107038	MOHAMED YEHIYA S **(Sports)**	/	/	/	/	/
37.	622122107039	MOHAN R	/	/	/	/	/
38.	622122107040	MOHANRAJ K	/	/	/	/	/
39.	622122107041	NAVEENKUMAR J	/	/	/	/	/
40.	622122107042	NITHISHKUMAR N	/	/	/	/	/
41.	622122107043	PRATHAP J	/	/	/	/	/
42.	622122107044	RAGUL G	/	/	/	/	/
43.	622122107045	RAGULNATH J	/	/	/	/	/
44.	622122107047	RAMKUMAR S ***(Sports)***	/	/	/	/	/
45.	622122107048	SABARIVIGNESH M	/	/	/	/	/
46.	622122107049	SANTHOSH KUMAR M D	/	/	/	/	/
47.	622122107050	SATHISH KUMAR P	/	/	/	/	/
48.	622122107051	SHAMKUMAR M	/	/	/	/	/
49.	622122107052	SHANMUGAVELAN D	/	/	/	/	/
50.	622122107053	SUGANDHAN S	/	/	/	/	/
51.	622122107054	TAMILVANAN T	/	/	/	/	/
52.	622122107055	THAVASIMAGIZHAN M	/	/	/	/	/
53.	622122107056	THENATHIAYALAN C **(Sports)**	/	/	a	/	/
54.	622122107058	VASANTH K	/	/	/	/	/
55.	622122107059	VIGNESH B	/	/	/	/	/
56.	622122107060	VIJAY R	/	/	/	/	/
57.	622122107062	YOGESH K	/	/	/	/	/

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Sl.No	Register Number	Name of the student	12.09.23	13.09.23	14.09.23	15.09.23	16.09.23
58.	622122107301	AARISH P	/	/	/	/	/
59.	622122107302	CHERI PRAVEEN	/	/	/	/	/
60.	622122107304	DHIVAGAR S	/	/	/	/	/
61.	622122107305	MATHIVANAN S	/	/	/	/	/
62.	622122107306	NAVEENKUMAR B	/	/	/	/	/
63.	622122107307	VINITHKUMAR S	/	/	/	/	/
64.	622122115001	ABIMANYU S	/	/	/	/	/
65.	622122115002	ANBU SELVAN S	/	/	/	/	/
66.	622122115003	ASHWIN R	/	/	/	/	/
67.	622122115004	DENIS AUSTEEN F	/	/	/	/	/
68.	622122115005	GOWTHAM G	/	/	/	/	/
69.	622122115006	HARIHARAN G	/	/	/	/	/
70.	622122115007	RAJESH R	/	/	/	/	/
71.	622122115008	RAVIKUMAR P	/	/	/	/	/
72.	622122115009	SACHIN M R	/	/	/	/	/
73.	622122115010	SANTHOSHKUMAR G	/	/	/	/	/
74.	622122115011	SIVAMANI M	/	/	/	/	/
75.	622122115012	TAMILVANAN KS	/	/	/	/	/
76.	622122115013	VIGNESH E	/	/	/	/	/
77.	622122115014	VIMALRAJ M	/	/	/	/	/
78.	622122115015	VINAYAK M	/	/	/	/	/

COURSE IN CHARGE:

1. Mr.R.MEIYAZHAGAN,AP/MECH, PEC.
2. Mr.T.THANGAVEL, AP/MECH, PEC

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PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechanical Engineering

CERTIFICATE

This is to certify that

MOHANRAJ K

of Paavai Engineering College, studying in Second Year has successfully completed the value added course 23MEVC301-CREO. The duration of the course is 30 hours from 12.09.2023 to 16.09.2023.

Course Coordinator	HOD	Principal

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PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechanical Engineering

CERTIFICATE

This is to certify that

SUGANDHAN S

of Paavai Engineering College, studying in Second Year has successfully completed the value added course 23MEVC301-CREO. The duration of the course is 30 hours from 12.09.2023 to 16.09.2023.

Course Coordinator	HOD	Principal

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PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechanical Engineering

CERTIFICATE

This is to certify that

BHARATH KUMAR R

of Paavai Engineering College, studying in Second Year has successfully completed the value added course 23MEVC301-CREO. The duration of the course is 30 hours from 12.09.2023 to 16.09.2023.

Course Coordinator	HOD	Principal

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PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechanical Engineering

CERTIFICATE

This is to certify that

ANBUSELVAN S

of Paavai Engineering College, studying in Second Year has successfully completed the value added course 23MEVC301-CREO. The duration of the course is 30 hours from 12.09.2023 to 16.09.2023.

Course Coordinator	HOD	Principal

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PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MECHANICAL ENGINEERING

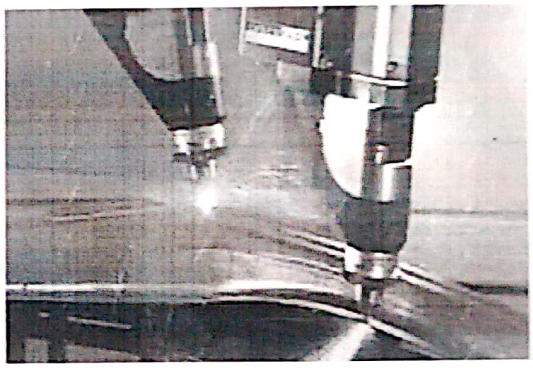
23MEVC401- ADVANCED WELDING PROCESS

ABOUT THE COURSE:

This course is primarily designed from fundamental understanding to the most recent advances in welding and joining technologies. The syllabus is oriented to the advancement of the joining technologies which is different from conventional welding and joining processes. The modules cover almost all the direction of joining technologies and it is blended with fundamental development to the recent technologies. Audience will be able to develop fundamental understanding on different perspective and recent development in this field through the lectures and reinforce their knowledge by solving assignments.

INTENDED AUDIENCE:

- II-, III- and IV-year students those who were interested in product design.
- Students those interested to know about the advanced welding process.
- One who wants to apply the welding process for assemble the elements.



DURATION OF THE COURSE:

Period: 18.03.24 to 22.03.24

Total hours: 30 Hours (6 Hours /day)

COURSE OUTCOMES:

At the end of this course students can be able to

- explain metal transfer mechanism and classify different types of welding process on the basis of heat sources.
- explain the mechanism of modern welding process and their Parameters and control.
- explain different Non Destructive Testing methods for welds.
- explain different Inspection codes for weldments.

COURSE IN CHARGE:

1. Mr.K.ANAND AP/MECH, PEC
2. Mr.P.SELVAKUMAR, AP/MECH, PEC

VENUE:

ENGINEERING PRACTICES LAB,
PAAVAI ENGINEERING COLLEGE

Note: Interested students enroll their name to the course in charge on or before 14.03.24.

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PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MECHANICAL ENGINEERING

Date: 09.03.24

CIRCULAR

In our department it is planned to conduct the course on "**23MEVC401- ADVANCED WELDING PROCESS**" for our students from 18.03.24 to 22.03.24. The students who are interested to improve their knowledge in welding process can register their name to the course in charge "**Mr. Mr.K.ANAND, AP/MECH, PEC,**" on or before **14.03.24**.

COURSE IN CHARGE:

1. **Mr.K.ANAND AP/MECH, PEC**
2. **Mr.P.SELVAKUMAR, AP/MECH, PEC**

Head of the Department

Department of Mechanical Engineering

Copy to:

1. All Class rooms.
2. Department Notice board

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23MCVC401 ADVANCED WELDING PROCESS

COURSE OBJECTIVES

To enable the students to

1. Elucidate the concepts of continuity, mechanism, physics, and design elements in welding process
2. Comprehend the characteristics of weldable materials and welding technologies
3. Demonstrate the importance of modelling and simulation of welding process
4. Elucidate the concepts of continuity, mechanism, physics, and design elements in welding process

UNIT I INTRODUCTION

Overview of welding processes and their classification, types of joints, edge preparation, weld symbols, weld nomenclature, bead geometry, power density, heat sources – Gaussian distribution of heat flux, welding techniques – linear and orbital. Arc characteristics. Voltage-current characteristics. Types of welding manipulators and their applications.

UNIT II ADVANCED WELDING PROCESSESS 9

Advanced welding processes: submerged arc, TIG, MIG, electro-slag, ultrasonic, electron beam and laser beam welding. Case studies and applications – industrial, automotive and aerospace.

UNIT III DESIGN OF ADVANCED WELDING PROCESS 9

Thermal modelling and simulation of welding processes – governing heat transfer equations and boundary conditions for various types of welding processes. Estimation of cooling rates. Prediction of mechanical properties, micro/macro-structures of weldments and heat-affected zone.

UNIT IV DEFECT ANALYSIS 9

Prediction of weld defects such a crack, segregation, lack of fusion. Modelling and simulation of pulsed arc processes. Use of software for simulation .Solidification behaviour of fusion weld: structural zones, epitaxial growth, weld pool shape and columnar grain structures. Weldability of metals- steels, stainless steels, aluminium, copper, nickel and titanium alloys.

UNIT V TESTS IN WELDING

Weldability tests. Welding defects – causes and remedies. Methods of testing weldments – mechanical, pressure and leak testing. Inspection methods – visual, penetrant, magnetic, ultrasonic, x-ray and gamma radiography. Use of imaging techniques for online monitoring.

TOTAL PERIODS: 30

COURSE OUTCOMES

At the end of the course, the students will be able to

- Describe welding processes, welding symbols, joint configurations, and heat source characteristics
- Formulate governing equations and boundary conditions to simulate the thermal phenomenon in the course of a welding process
- Evaluate the microstructural evolution on the properties of weldments
- Identify appropriate techniques for detecting the welding defects.

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PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR: 2023 -2024

ATTENDANCE SHEET

Year/Semester : II / IV

Name of the course: 23MEVC401- ADVANCED WELDING PROCESS Date: 18.03.24

Sl.No	Register Number	Name of the student	18.03.24	19.03.24	20.03.24	21.03.24	22.03.24
1.	622122107001	ADITHYA DEV	/	/	/	/	/
2.	622122107002	AMARNATH M	/	/	/	/	/
3.	622122107003	ANANDHARAJ A	/	/	/	/	/
4.	622122107004	ANBURAJ A	/	/	/	/	/
5.	622122107005	ARJUN K	/	/	/	/	/
6.	622122107007	BALAJI K	/	/	/	/	/
7.	622122107008	BHARATH KUMAR R	/	/	/	/	/
8.	622122107009	DEEPAKARAN P	a	a	a	a	a
9.	622122107010	DEEPAKKUMAR K	/	/	/	/	/
10.	622122107011	DEEPAKRAJ M (*Sports*)	/	/	/	/	/
11.	622122107012	DEGARASAN R	/	/	a	/	/
12.	622122107013	DEVADHARSHAN M	/	/	/	/	/
13.	622122107015	DHANUSH M	/	/	/	/	/
14.	622122107016	DHANUSH S	/	/	/	/	/
15.	622122107017	DHARSAN T	/	/	/	/	/
16.	622122107018	DINESH V	/	/	/	/	/
17.	622122107019	DIVAKAR C	/	/	/	/	/
18.	622122107020	ELUMALAI P	/	/	/	/	/
19.	622122107021	GOKUL M K	/	/	/	/	/
20.	622122107022	GOKULPRASATH R	/	/	/	/	/
21.	622122107023	HARIHARAN S	/	/	/	/	/
22.	622122107024	IYAPPAN G	/	/	/	/	/
23.	622122107025	JAYACHANDHIRAN J	/	/	/	/	/
24.	622122107026	JEEVA AKASH S	/	/	/	/	/

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Sl.No	Register Number	Name of the student	18.03.24	19.03.24	20.03.24	21.03.24	22.03.24
25.	622122107027	JEEVABHARATHI R	/	/	/	/	/
26.	622122107028	JEGATHISH R	/	/	/	/	/
27.	622122107029	KARTHICK S *(Sports)*	/	/	/	/	/
28.	622122107030	KRISHNA PRASATH P	/	/	/	/	/
29.	622122107031	LOGAPRIYAN G	/	/	/	/	/
30.	622122107032	LOGESHWARAN S	/	/	/	/	/
31.	622122107033	MADHAN A	/	/	/	/	/
32.	622122107034	MADHINESH K	/	/	/	/	/
33.	622122107035	MANEES B	/	/	/	/	/
34.	622122107036	MANOJ L	/	/	/	/	/
35.	622122107037	MOHAMED ASHIK ALI M	/	/	a	/	/
36.	622122107038	MOHAMED YEHIYA S **(Sports)**	/	/	/	/	/
37.	622122107039	MOHAN R	/	/	/	/	/
38.	622122107040	MOHANRAJ K	/	/	/	/	/
39.	622122107041	NAVEENKUMAR J	/	/	/	/	/
40.	622122107042	NITHISHKUMAR N	/	/	/	/	/
41.	622122107043	PRATHAP J	/	/	/	/	/
42	622122107044	RAGUL G	/	/	/	/	/
43.	622122107045	RAGULNATH J	/	/	/	/	/
44.	622122107047	RAMKUMAR S *(Sports)*	/	/	/	/	/
45.	622122107048	SABARIVIGNESH M	/	/	/	/	/
46.	622122107049	SANTHOSH KUMAR M D	/	/	/	/	/
47.	622122107050	SATHISH KUMAR P	/	/	/	/	/
48.	622122107051	SHAMKUMAR M	/	/	/	/	/
49	622122107052	SHANMUGAVELAN D	/	/	/	/	/
50.	622122107053	SUGANDHAN S	/	/	/	/	/
51.	622122107054	TAMILVANAN T	/	/	/	/	/
52.	622122107055	THAVASIMAGIZHAN M	a	a	a	a	a
53.	622122107056	THENATHAYALAN C **(Sports)**	/	/	/	/	/
54.	622122107058	VASANTH K	/	/	/	/	/
55	622122107059	VIGNESH B	/	/	/	/	/
56.	622122107060	VIJAY R	/	/	/	/	/
57.	622122107062	YOGESH K	/	/	/	/	/

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Sl.No	Register Number	Name of the student	12.09.23	13.09.23	14.09.23	15.09.23	16.09.23
58.	622122107301	AARISH P	/	/	a	/	/
59.	622122107302	CHERI PRAVEEN	/	/	/	/	/
60.	622122107304	DHIVAGAR S	/	/	/	/	/
61.	622122107305	MATHIVANAN S	/	/	/	/	/
62.	622122107306	NAVEENKUMAR B	/	/	/	/	/
63.	622122107307	VINITHKUMAR S	/	/	/	/	/
64.	622122115001	ABIMANYU S	/	/	/	/	/
65.	622122115002	ANBU SELVAN S	/	/	/	/	/
66.	622122115003	ASHWIN R	/	/	/	/	/
67.	622122115004	DENIS AUSTEEN F	/	/	/	/	/
68.	622122115005	GOWTHAM G	/	/	/	/	/
69.	622122115006	HARIHARAN G	/	/	/	/	/
70.	622122115007	RAJESH R	/	/	/	/	/
71.	622122115008	RAVIKUMAR P	/	/	/	/	/
72.	622122115009	SACHIN M R	/	/	/	/	/
73.	622122115010	SANTHOSHKUMAR G	/	/	/	/	/
74.	622122115011	SIVAMANI M	/	/	/	/	/
75.	622122115012	TAMILVANAN KS	/	/	/	/	/
76.	622122115013	VIGNESH E	/	/	/	/	/
77.	622122115014	VIMALRAJ M	/	/	/	/	/
78.	622122115015	VINAYAK M	/	/	/	/	/

COURSE IN CHARGE:

1. Mr.K.ANAND AP/MECH, PEC
2. Mr.P.SELVAKUMAR, AP/MECH, PEC

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PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechanical Engineering

CERTIFICATE

This is to certify that

ADITHYA DEV

of Paavai Engineering College, studying in Second Year has successfully completed the value added course 23MEVC401 -ADVANCED WELDING PROCESS . The duration of the course is 30 hours from 18.03.2024 to 22.03.2024.

Course Coordinator	HOD	Principal

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PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechanical Engineering

CERTIFICATE

This is to certify that

LOGESHWARAN S

of Paavai Engineering College, studying in Second Year has successfully completed the value added course 23MEVC401 -ADVANCED WELDING PROCESS . The duration of the course is 30 hours from 18.03.2024 to 22.03.2024.

Course Coordinator	HOD	Principal

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PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechanical Engineering

CERTIFICATE

This is to certify that

NAVEEN KUMAR J

of Paavai Engineering College, studying in Second Year has successfully completed the value added course 23MEVC401 -ADVANCED WELDING PROCESS . The duration of the course is 30 hours from 18.03.2024 to 22.03.2024.

Course Coordinator	HOD	Principal

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PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechanical Engineering

CERTIFICATE

This is to certify that

VIMAL RAJ M

of Paavai Engineering College, studying in Second Year has successfully completed the value added course 23MEVC401 -ADVANCED WELDING PROCESS . The duration of the course is 30 hours from 18.03.2024 to 22.03.2024.

Course Coordinator	HOD	Principal

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PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MECHANICAL ENGINEERING

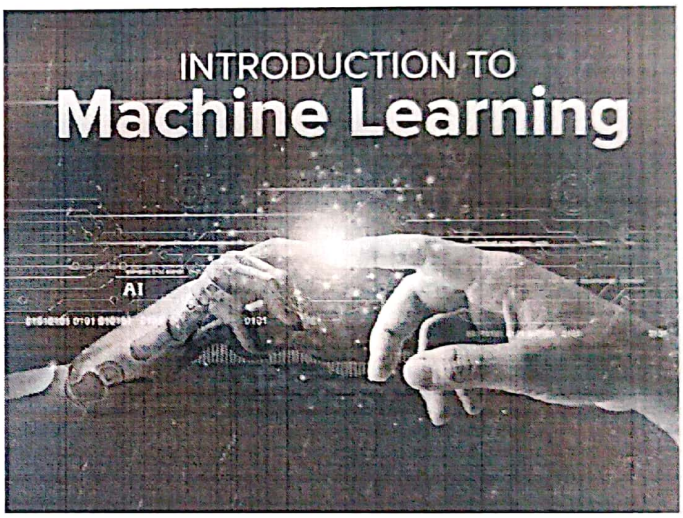
23MEVC501- INTRODUCTION TO MACHINE LEARNING

ABOUT THE COURSE:

This course will provide you a foundational understanding of machine learning models (logistic regression, multilayer perceptron's, convolutional neural networks, natural language processing, etc.) as well as demonstrate how these models can solve complex problems in a variety of industries, from medical diagnostics to image recognition to text prediction.

INTENDED AUDIENCE:

- II-, III- and IV-year students those who were interested in product design.
- Students those interested to know about the advanced welding process.
- One who wants to apply the welding process for assemble the elements.



DURATION OF THE COURSE:

Period: 12.09.2023 to 16.09.2023

Total hours: 30 Hours (6 Hours /day)

COURSE OUTCOMES:

At the end of this course students can be able to

- apply structured thinking to unstructured problems Understand a very broad collection of machine learning algorithms and problems.
- learn algorithmic topics of machine learning and mathematically deep enough to introduce the required theory

COURSE IN CHARGE:

1. Mr.S.PRABHAKARAN, ASP/MECH, PEC
2. Mr.N.LOKESWARAN, AP/MECH, PEC

VENUE:

CAD/CAM LAB,

PAAVAI ENGINEERING COLLEGE

Note: Interested students enroll their name to the course in charge on or before 03.09.2023.

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PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MECHANICAL ENGINEERING

Date: 29.08.2023

CIRCULAR

In our department it is planned to conduct the course on **"23MEVC501- INTRODUCTION TO MACHINE LEARNING"** for our students from 12.09.2023 to 16.09.2023. The students who are interested to improve their knowledge in machine learning concepts can register their name to the course in charge **"Mr. S.PRABHAKARAN, ASP/MECH, PEC, "** on or before **03.09.2023.**

COURSE IN CHARGE:

1. **Mr.S.PRABHAKARAN, ASP/MECH, PEC**
2. **Mr.N.LOKESWARAN, AP/MECH, PEC**

Head of the Department

Department of Mechanical Engineering

Copy to:

1. All Class rooms.
2. Department Notice board

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23MCVC501 INTRIDUCTION TO MACHINE LEARNING

COURSE OBJECTIVES

To enable the students to

1. understand the basic theory underlying machine learning
2. formulate machine learning problems corresponding to different applications
3. understand a range of machine learning algorithms along with their strengths and weaknesses.
4. apply machine learning algorithms to solve problems of moderate complexity.

UNIT I INTRODUCTION

Introduction: Basic definitions, types of learning, hypothesis space and inductive bias, evaluation, cross-validation, Linear regression, Decision trees, overfitting

UNIT II BASICS OF MODEL LEARNING 9

Instance based learning, Feature reduction, Collaborative filtering based recommendation.

UNIT III IMAGE ANALYSIS TECHNIQUE 9

Logistic Regression, Support Vector Machine, Kernel function and Kernel SVM

UNIT IV FUNDAMENTALS OF NEURAL NETWORK 9

Neural network: Perceptron, multilayer network, backpropagation, introduction to deep neural network

TOTAL PERIODS: 30

COURSE OUTCOMES

At the end of the course, the students will be able to

- apply structured thinking to unstructured problems Understand a very broad collection of machine learning algorithms and problems.
- Learn algorithmic topics of machine learning and mathematically deep enough to introduce the required theory

TEXT BOOKS

1. The Elements of Statistical Learning, by Trevor Hastie, Robert Tibshirani, Jerome H. Friedman
2. Pattern Recognition and Machine Learning, by Christopher Bishop .

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PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR: 2023 -2024

ATTENDANCE SHEET

Year/Semester : II / IV

Name of the course: 23MEVC501-INTRODUCTION TO MACHINE LEARNING Date: 12.09.23

Sl.No	Register Number	Name of the student	12.09.23	13.09.23	14.09.23	15.09.23	16.09.23
1.	622121107001	ABINAYASREE K	/	/	/	/	/
2.	622121107002	ABINESH S	/	/	/	/	/
3.	622121107003	ABISHEK A	/	/	/	/	/
4.	622121107004	AKASH E	/	/	/	/	/
5.	622121107005	ANBUMANI K	/	/	/	/	/
6.	622121107006	ARUN G	/	/	/	/	/
7.	622121107007	ARUSAMY S	/	/	/	/	/
8.	622121107008	BALAJI B	/	/	/	/	/
9.	622121107009	BHARANI K	/	/	/	/	/
10.	622121107010	BHARATH P	/	/	/	/	/
11.	622121107012	BOOPATHI P	/	/	/	/	/
12.	622121107015	GOKUL KRISHNAN A	/	/	a	/	/
13.	622121107017	GOKULRAJ V	/	/	/	/	/
14.	622121107018	HARIHARAN M	/	/	/	/	/
15.	622121107019	HEMAHARIDHA J	/	/	/	/	/
16.	622121107021	JOTHI KRISHNA S J	/	/	/	/	/
17.	622121107022	KALAISELVAN K	/	/	/	/	/
18.	622121107025	KAVIYARASAN S	/	/	/	/	/
19.	622121107026	KISHORE M	/	/	/	/	/
20.	622121107027	KISHORE R	/	/	/	/	/
21.	622121107029	MANOJKUMAR P	/	/	/	/	/
22.	622121107030	MOHAN A	/	/	/	/	/
23.	622121107031	MUGILRAJ M	/	/	/	/	/
24.	622121107032	MUGUNTHAN A	/	/	/	/	/

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Sl.No	Register Number	Name of the student	12.09.23	13.09.23	14.09.23	15.09.23	16.09.23
25.	622121107033	MUHESH BHARATHI R	/	/	/	/	/
26.	622121107034	MUTHU M	/	/	/	/	/
27.	622121107035	NALIN T	/	/	/	/	/
28.	622121107036	NANDHAKUMAR S	/	/	/	/	/
29.	622121107037	PALANI A	/	/	/	/	/
30.	622121107038	PITCHAI MANI A	/	/	/	/	/
31.	622121107039	POOVARASAN V	/	/	/	/	/
32.	622121107040	PRABHU M	/	/	/	/	/
33.	622121107041	PRADEEPKUMAR S	/	/	/	/	/
34.	622121107043	PRIYADHARSHINI P	/	/	/	/	/
35.	622121107045	SANJAI ADHITHYA R	/	/	/	/	/
36.	622121107047	SATHISHKUMAR V	a	a	a	a	a
37.	622121107048	SATHRIYAN C	/	/	/	/	/
38.	622121107049	SETHU RAJ R	/	/	/	/	/
39.	622121107050	SHARAN D	/	/	/	/	/
40.	622121107051	SINGADURAI A	/	/	/	/	/
41.	622121107052	SIVANESH G	/	/	/	/	/
42.	622121107053	SIVASAKTHI M	/	/	/	/	/
43.	622121107055	SUDHARSAN M	/	/	/	/	/
44.	622121107056	SURYA S	/	/	/	/	/
45.	622121107057	THIRUMURUGAN N	/	/	/	/	/
46.	622121107058	THIRUSELVAN V	/	/	/	/	/
47.	622121107059	VIGNESH NAGARATHINAM N	/	/	/	/	/
48.	622121107060	VIGNESHWARAN S	/	/	/	/	/
49.	622121107061	VIKRAM S	/	/	/	/	/
50.	622121107302	GNANESH P	/	/	/	/	/
51.	622121107303	GOWTHAM S	/	a	/	/	/
52.	622121107304	JAWAHAR V B	/	/	/	/	/
53.	622121107305	JAYASURYA S	/	/	/	/	/
54.	622121107306	MATHIVANAN R	/	/	/	/	/
55.	622121107308	NAVEENKUMAR K	/	/	/	/	/
56.	622121107309	RAJPRAKASAM P	/	/	/	/	/
57.	622121107310	SUJITH M	/	/	/	/	/

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Sl.No	Register Number	Name of the student	12.09.23	13.09.23	14.09.23	15.09.23	16.09.23
58.	622121107501	ABDUL RAHMAN N	/	/	/	/	/
59.	622121107502	SIVABALAJI	/	a	/	/	/

COURSE IN CHARGE:

1. Mr.S.PRABHAKARAN, ASP/MECH, PEC
2. Mr.N.LOKESWARAN, AP/MECH, PEC

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PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechanical Engineering

CERTIFICATE

This is to certify that

ABINAYA SHREE K

of Paavai Engineering College, studying in Third Year has successfully completed the value added course 23MEVC501 -INTRODUCTION TO MACHINE LEARNING . The duration of the course is 30 hours from 12.09.2023 to 16.09.2023.

Course Coordinator	HOD	Principal

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PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechanical Engineering

CERTIFICATE

This is to certify that

KISHORE R

of Paavai Engineering College, studying in Third Year has successfully completed the value added course 23MEVC501 -INTRODUCTION TO MACHINE LEARNING . The duration of the course is 30 hours from 12.09.2023 to 16.09.2023.

Course Coordinator	HOD	Principal

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PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechanical Engineering

CERTIFICATE

This is to certify that

RAJAPRAKASAM P

of Paavai Engineering College, studying in Third Year has successfully completed the value added course 23MEVC501 -INTRODUCTION TO MACHINE LEARNING . The duration of the course is 30 hours from 12.09.2023 to 16.09.2023.

Course Coordinator	HOD	Principal

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PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechanical Engineering

CERTIFICATE

This is to certify that

SUJITH M

of Paavai Engineering College, studying in Third Year has successfully completed the value added course 23MEVC501 -INTRODUCTION TO MACHINE LEARNING . The duration of the course is 30 hours from 12.09.2023 to 16.09.2023.

Course Coordinator	HOD	Principal

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PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MECHANICAL ENGINEERING

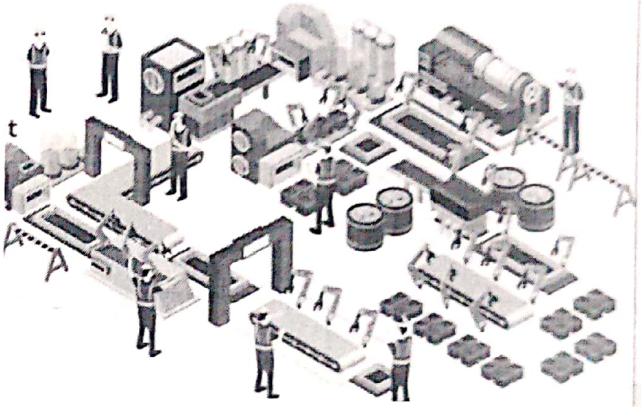
23MEVC601- PLANT LAYOUT

ABOUT THE COURSE:

Plant layout in industrial engineering provides a comprehensive guide on how to select a site, the purpose of plant layout, and the types of plant layout. Learn about the different methods of site selection, factors affecting site selection, how to design product layouts, as well as the organization of facility and material handling. Begin this course today and improve your engineering knowledge

INTENDED AUDIENCE:

- II-, III- and IV-year students those who were interested in product design.
- Students those interested to develop the layout process in industry.
- One who wants to apply the layout concepts in industry and other areas.



DURATION OF THE COURSE:

Period: 18.03.24 to 22.03.24

Total hours: 30 Hours (6 Hours /day)

COURSE OUTCOMES:

At the end of this course students can be able to

- get the basics of process layout & product layout
- apply knowledge in Industrial management
- apply the plant layout concept in various industries

COURSE IN CHARGE:

1. Dr.S.MANIRAJ, ASP/MECH, PEC
2. Mr.N.MANIGANDAN, AP/MECH, PEC

VENUE:

PRESTIGE HALL,

PAAVAI ENGINEERING COLLEGE

Note: Interested students enroll their name to the course in charge on or before 14.03.24.

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PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MECHANICAL ENGINEERING

Date: 09.03.24

CIRCULAR

In our department it is planned to conduct the course on "**23MEVC601- PLANT LAYOUT**" for our students from 18.03.24 to 22.03.24. The students who are interested to improve their ideas in layout for industry concepts can register their name to the course in charge "**Dr.S.MANIRAJ, ASP/MECH, PEC,**" on or before 14.03.24.

COURSE IN CHARGE:

1. **Dr.S.MANIRAJ, ASP/MECH, PEC**
2. **Mr.N.MANIGANDAN, AP/MECH, PEC**

Head of the Department

Department of Mechanical Engineering

Copy to:

1. All Class rooms.
2. Department Notice board

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23MEVC601 PLANT LAYOUT

COURSE OBJECTIVES

To enable the students to

- get the basics of process layout & product layout .
- get the knowledge in Industrial management
- know the application of plant layout concept in various industries
- get the knowledge in working conditions in plant layout.

1 PLANT LOCATION

Selection of plant locations, territorial parameters, considerations of land, water, electricity, location for waste treatment and disposal, further expansions, Safe location of chemical storages, LPG, LNG, CNG, acetylene, ammonia, chlorine, explosives and propellants.

2 DESIGN OF LAYOUT

Safe layout, equipment layout, safety system, fire hydrant locations, fire service rooms, facilities for safe effluent disposal and treatment tanks, site considerations, approach roads, plant railway lines, security towers.

3 PLANT LAYOUT

Safe layout for process industries, engineering industry, construction sites, pharmaceuticals, pesticides, fertilizers, refineries, food processing, nuclear power stations, thermal power stations, metal powders manufacturing, fireworks and match works.

4 WORKING CONDITIONS

Principles of good ventilation, purpose, physiological and comfort level types, local and exhaust ventilation, hood and duct design, air conditioning, ventilation standards, application. Purpose of lighting, types, advantages of good illumination, glare and its effect, lighting requirements for various work, standards- Housekeeping, principles of 5S.

TOTAL PERIODS 30

COURSE OUTCOMES

At the end this course, students will be able to

- get the basics of process layout & product layout

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PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR: 2023 -2024

ATTENDANCE SHEET

Year/Semester : III / VI

Name of the course: 23MEVC601-PLANT LAYOUT Date: 18.03.24

Sl.No	Register Number	Name of the student	18.03.24	19.03.24	20.03.24	21.03.24	22.03.24
1.	622121107001	ABINAYASREE K	/	/	/	/	/
2.	622121107002	ABINESH S	/	/	/	/	/
3.	622121107003	ABISHEK A	/	/	/	/	/
4.	622121107004	AKASH E	/	/	/	/	/
5.	622121107005	ANBUMANI K	/	/	/	/	/
6.	622121107006	ARUN G	/	/	/	/	/
7.	622121107007	ARUSAMY S	/	/	/	/	/
8.	622121107008	BALAJI B	/	/	/	/	/
9.	622121107009	BHARANI K	/	/	/	/	/
10.	622121107010	BHARATH P	/	/	/	/	/
11.	622121107012	BOOPATHI P	a	a	a	a	a
12.	622121107015	GOKUL KRISHNAN A	/	/	/	/	/
13.	622121107017	GOKULRAJ V	/	/	/	/	/
14.	622121107018	HARIHARAN M	/	/	/	/	/
15.	622121107019	HEMAHARIDHA J	/	/	/	/	/
16.	622121107021	JOTHI KRISHNA S J	/	/	/	/	/
17.	622121107022	KALAISELVAN K	/	/	/	/	/
18.	622121107025	KAVIYARASAN S	/	/	/	/	/
19.	622121107026	KISHORE M	/	/	/	/	/
20.	622121107027	KISHORE R	/	/	/	/	/
21.	622121107029	MANOJKUMAR P	/	/	/	/	/
22.	622121107030	MOHAN A	/	/	/	/	/
23.	622121107031	MUGILRAJ M	/	/	/	/	/
24.	622121107032	MUGUNTHAN A	/	/	/	/	/

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Sl.No	Register Number	Name of the student	18.03.24	19.03.24	20.03.24	21.03.24	22.03.24
25.	622121107033	MUHESH BHARATHI R	/	/	/	/	/
26.	622121107034	MUTHU M	/	/	/	/	/
27.	622121107035	NALIN T	/	/	/	/	/
28.	622121107036	NANDHAKUMAR S	/	/	/	/	/
29.	622121107037	PALANI A	/	/	/	/	/
30.	622121107038	PITCHAI MANI A	/	/	/	a	/
31.	622121107039	POOVARASAN V	/	/	/	/	/
32.	622121107040	PRABHU M	/	/	/	/	/
33.	622121107041	PRADEEPKUMAR S	/	/	/	/	/
34.	622121107043	PRIYADHARSHINI P	/	/	/	/	/
35.	622121107045	SANJAI ADHITHYA R	/	/	/	/	/
36.	622121107047	SATHISHKUMAR V	/	/	/	/	/
37.	622121107048	SATHRIYAN C	a	a	a	a	a
38.	622121107049	SETHU RAJ R	/	/	/	/	/
39.	622121107050	SHARAN D	/	/	/	/	/
40.	622121107051	SINGADURAI A	/	/	/	/	/
41.	622121107052	SIVANESH G	/	/	/	/	/
42.	622121107053	SIVASAKTHI M	/	/	/	/	/
43.	622121107055	SUDHARSAN M	/	/	/	/	/
44.	622121107056	SURYA S	/	/	/	/	/
45.	622121107057	THIRUMURUGAN N	/	/	/	/	/
46.	622121107058	THIRUSELVAN V	/	/	/	/	/
47.	622121107059	VIGNESH NAGARATHINAM N	/	/	/	/	/
48.	622121107060	VIGNESHWARAN S	/	/	/	/	/
49.	622121107061	VIKRAM S	/	/	/	/	/
50.	622121107302	GNANESH P	/	/	/	/	/
51.	622121107303	GOWTHAM S	/	/	/	/	/
52.	622121107304	JAWAHAR V B	/	/	/	/	/
53.	622121107305	JAYASURYA S	/	/	/	/	/
54.	622121107306	MATHIVANAN R	/	/	/	/	/
55.	622121107308	NAVEENKUMAR K	/	/	/	/	/
56.	622121107309	RAJPRAKASAM P	/	/	/	/	/
57.	622121107310	SUJITH M	/	/	/	/	/

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Sl.No	Register Number	Name of the student	18.03.24	19.03.24	20.03.24	21.03.24	22.03.24
58.	622121107501	ABDUL RAHMAN N	/	/	/	/	a
59.	622121107502	SIVABALAJI	/	/	a	/	/

COURSE IN CHARGE:

1. Dr.S.MANIRAJ, ASP/MECH, PEC
2. Mr.N.MANIGANDAN, AP/MECH, PEC

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PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechanical Engineering

CERTIFICATE

This is to certify that

ABINESH S

of Paavai Engineering College, studying in Third Year has successfully completed the value added course 23MEVC601 -PLANT LAYOUT. The duration of the course is 30 hours from 18.03.2024 to 22.03.2024.

Course Coordinator	HOD	Principal

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PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechanical Engineering

CERTIFICATE

This is to certify that

HEMAHARIDHA J

of Paavai Engineering College, studying in Third Year has successfully completed the value added course 23MEVC601 -PLANT LAYOUT. The duration of the course is 30 hours from 18.03.2024 to 22.03.2024.

Course Coordinator	HOD	Principal

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PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechanical Engineering

CERTIFICATE

This is to certify that

SHARAN D

of Paavai Engineering College, studying in Third Year has successfully completed the value added course 23MEVC601 -PLANT LAYOUT. The duration of the course is 30 hours from 18.03.2024 to 22.03.2024.

Course Coordinator	HOD	Principal

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PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechanical Engineering

CERTIFICATE

This is to certify that

MATHIVANAN R

of Paavai Engineering College, studying in Third Year has successfully completed the value added course 23MEVC601 -PLANT LAYOUT. The duration of the course is 30 hours from 18.03.2024 to 22.03.2024.

Course Coordinator	HOD	Principal

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PAAVAI ENGINEERING COLLEGE

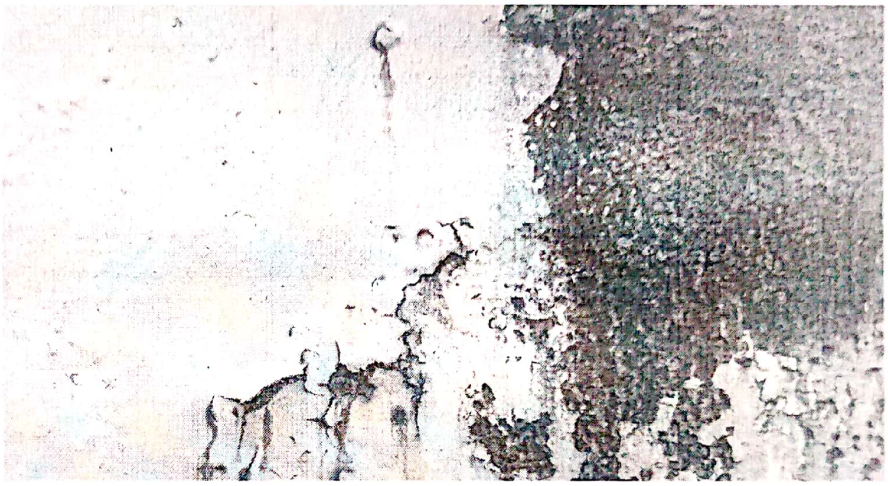
(AUTONOMOUS)

DEPARTMENT OF MECHANICAL ENGINEERING

23MEVC701- CORROSION AND SURFACE ENGINEERING

ABOUT THE COURSE:

The goal of this course, "Corrosion and Surface Engineering," is to give students a thorough understanding of the science and engineering of surface degradation, with a primary focus on corrosion and environmental degradation of materials. It also teaches students how to use surface engineering to mitigate these processes. The principles of surface degradation mechanisms, control and preventive strategies, and the effects of environmental conditions on material deterioration are covered.



INTENDED AUDIENCE:

- II-, III- and IV-year students those who were interested in product design.
- Students those interested to develop the layout process in industry.
- One who wants to apply the layout concepts in industry and other areas.

DURATION OF THE COURSE:

Period: 12.09.2023 to 16.09.2023

Total hours: 30 Hours (6 Hours /day)

COURSE OUTCOMES:

At the end of this course students can be able to

- get the basics of process layout & product layout.
- apply knowledge in Industrial management.
- apply the plant layout concept in various industries.

COURSE IN CHARGE:

1. Dr.P.PUGALENTHI, ASP/MECH, PEC
2. Mr.R.MOHANRAJ, AP/MECH, PEC

VENUE:

SEMINAR HALL 1,

PAAVAI ENGINEERING COLLEGE

Note: Interested students enroll their name to the course in charge on or before 03.09.2023.

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PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MECHANICAL ENGINEERING

Date: 29.08.2023

CIRCULAR

In our department it is planned to conduct the course on **"23MEVC701- CORROSION AND SURFACE ENGINEERING"** for our students from 12.09.2023 to 16.09.2023. The students who are interested to improve their ideas in layout for industry concepts can register their name to the course in charge **"Dr.P.PUGALENTHI, ASP/MECH, PEC,"** on or before **03.09.2023.**

COURSE IN CHARGE:

1. **Dr.P.PUGALENTHI, ASP/MECH, PEC**
2. **Mr.R.MOHANRAJ, AP/MECH, PEC**

Head of the Department

Department of Mechanical Engineering

Copy to:

1. All Class rooms.
2. Department Notice board

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23MEVC701 CORROSION AND SURFACE ENGINEERING

COURSE OBJECTIVES

To enable the students to

- know about the various types of corrosion.
- identify the different testing methods of corroded surface.
- know about the behaviour of material under corrosion.

1 MECHANISMS AND TYPES OF CORROSION

Principles of direct and Electro chemical Corrosion, Hydrogen evolution and Oxygen absorption mechanisms – Galvanic corrosion, Galvanic series-specific types of corrosion such as uniform, Pitting, Intergranular, Cavitations, Crevice Fretting, Erosion and Stress Corrosion –Factors influencing corrosion.

2 TESTING AND PREVENTION OF CORROSION

Corrosion testing techniques and procedures- Corrosion Testing ASTM Standards, Pitting CorrosionTest,HydrogenInducedCracking(HIC)Test,SulphideStressCorrosionCracking (SSCC) Test-Prevention of Corrosion-Design against corrosion –Modifications of corrosive environment –Inhibitors – Cathodic Protection –Protective surface coatings

3 CORROSION BEHAVIOR OF MATERIALS

Corrosion of steels, stainless steel, Aluminum alloys, copper alloys, Nickel and Titanium alloys-corrosion of Polymers, Ceramics and Composite materials.

4 SURFACE ENGINEERING FOR WEAR ANDCORROSIONRESISTANCE

Diffusion coatings –Electro and Electroless Plating –Hot dip coating –Hard facing-Metal spraying, Flame and Arc processes- Conversion coating –Selection of coating for wear and Corrosion resistance.

TOTAL PERIODS 30

COURSE OUTCOMES

At the end this course, students will be able to

- know the different types of corrosion and their mechanism.
- estimate corrosion resistance by different tests.
- understand corrosion behavior of different metals at different conditions.
- define different forms of processing techniques of surface engineering materials.

TEXT BOOKS

1. Michael PycraftInrushes, "Nano Electro Mechanics in Engineering & biology '', CRC press New York, 2011.

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PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR: 2023 -2024

ATTENDANCE SHEET

Year/Semester : IV /VIII

Name of the course: 23MEVC701- CORROSION AND SURFACE ENGINEERING Date: 12.09.23

Sl.No	Register Number	Name of the student	12.09.23	13.09.23	14.09.23	15.09.23	16.09.23
1.	20107001	AAKASH.S	/	/	/	/	/
2.	20107002	AAKESH KUMAR.S	/	/	/	/	/
3.	20107006	AKASH.G	/	/	/	/	/
4.	20107008	ANBARASAN .A	/	/	/	/	/
5.	20107010	BHARANI SHAKTHI DHARAN.D.S	/	/	/	/	/
6.	20107012	DEEPESH.M	/	/	/	/	/
7.	20107013	GOPALAKANNAN.M	/	/	/	/	/
8.	20107015	JANARTHANAN.K	/	/	/	/	/
9.	20107017	KAVIN.S	/	/	/	/	/
10.	20107018	KODIYARASAN.T	/	/	/	/	/
11.	20107019	MAHENDRAN.G	/	/	/	/	/
12.	20107020	MOHAMED NASAR.R	/	a	/	/	/
13.	20107021	MOORTHI.S	/	/	/	/	/
14.	20107022	NAVEENKUMAR.J	/	/	/	/	/
15.	20107023	NAVEENKUMAR.S	/	/	/	/	/
16.	20107024	NITHESH.T	/	/	/	/	/
17.	20107025	PARTHIBAN.T.A	/	/	/	/	/
18.	20107028	RAJENDRA PRASATH.V	/	/	/	/	/
19.	20107029	RAJKUMAR.K	/	/	/	/	/
20.	20107030	RAJKUMAR.T	/	/	/	/	/
21.	20107031	RANJITH KUMAR.V	/	/	/	/	/
22.	20107032	SARAN RAJ.T	/	/	/	/	/
23.	20107033	SARATHI.C	/	/	/	/	/
24.	20107034	SARATHI.S	/	/	/	/	/

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Sl.No	Register Number	Name of the student	12.09.23	13.09.23	14.09.23	15.09.23	16.09.23
25.	20107036	SATHISH.S	/	/	/	/	/
26.	20107039	SIVACHANDIRAN.C	/	/	/	/	/
27.	20107040	SIVASURYA.S	/	/	/	/	/
28.	20107041	SRINATH.D	/	/	/	/	/
29.	20107042	SUMITH.S	/	/	/	/	/
30.	20107043	THINESHKUMAR.M	/	/	a	/	/
31.	20107044	VENGATESAN.R	a	a	a	a	a
32.	20107045	VETRIVEL.P	/	/	/	/	/
33.	20107047	VISHU.D	/	/	/	/	/
34.	20107302	ASHIF ALI. M	/	/	/	/	/
35.	20107303	BIMAL BAIJU	/	/	/	/	/
36.	20107305	DHARUN. M. S	/	/	/	/	/
37.	20107306	DINESHKUMAR. S	/	/	/	/	/
38.	20107307	GOKUL M	/	/	/	/	/
39.	20107308	GOKUL. V	/	/	/	/	/
40.	20107309	GOUSHIK PRABHU	/	/	/	/	/
41.	20107310	GUNALAN M	/	/	/	/	/
42.	20107311	GUNASEKARAN. M	/	/	/	/	/
43.	20107312	HARIPRASATH. V	/	/	/	/	/
44.	20107314	KARTHICK. K. K	/	/	/	/	/
45.	20107315	KARTHICK R	/	/	/	/	/
46.	20107316	KARTHIKEYAN. K	/	/	a	/	/
47.	20107318	KIRANKUMAR. M	/	/	/	/	/
48.	20107320	KIRUBAKARAN. T	/	/	/	/	/
49.	20107321	LEOSONU I	/	/	/	/	/
50.	20107322	LOGESH.S	/	/	/	/	/
51.	20107323	MANOJKUMAR. V	/	/	/	/	/
52.	20107325	MOHAMMED RIYAS. A	/	/	/	/	/
53.	20107326	MOHAMMED RIYAS. E	/	/	/	/	/
54.	20107328	NISHANTH. R	/	/	/	/	/
55.	20107329	PRAVEENKUMAR. S	/	/	/	/	/
56.	20107330	PREMNATH. L. G	/	/	/	/	/
57.	20107036	SATHISH.S	/	/	/	/	/

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Sl.No	Register Number	Name of the student	12.09.23	13.09.23	14.09.23	15.09.23	16.09.23
58.	20107331	RAGUVARAN. P	/	/	/	/	/
59.	20107332	RAJAMURUGAN. A	/	/	/	/	/
60.	20107333	RAJESHWARAN. S. M. R	/	/	/	/	/
61.	20107334	RAMBOJITH.V	/	/	/	/	/
62.	20107335	RISHIKESAVAN. C. M	/	/	/	/	/
63.	20107336	SARAVANAN. K. S	/	/	/	/	/
64.	20107337	SUDARMANI. V	/	/	/	/	/
65.	20107338	SUDHARSAN. P	/	/	/	/	/
66.	20107341	TAMILMANI. R	/	/	/	/	/
67.	20107342	TAMIZHARASU. S	/	/	/	/	/
68.	20107343	THANGAMANIKANDAN. R	/	/	/	/	/
69.	20107345	YOKESH. S	/	/	/	/	/
70.	20107501	MADHANKUMAR .M	/	/	/	/	/
71.	622122304001	JAISRI A	/	/	/	/	/
72.	622122304002	PRAVIN R B	/	/	/	/	/
73.	622122304005	SATHISH V	/	/	/	/	/
74.	622123304001	ARNAGIRI.A	/	/	/	/	/
75.	622123304002	SUBASH.S	/	/	/	/	/
76.	622123304003	VIGHNESHWARAN.B	/	/	/	/	/

COURSE IN CHARGE:

1. **Dr.P.PUGALENTHI, ASP/MECH, PEC**
2. **Mr.R.MOHANRAJ, AP/MECH, PEC**

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PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechanical Engineering

CERTIFICATE

This is to certify that

MAHENDRAN G

of Paavai Engineering College, studying in Final Year has successfully completed the value added course 23MEVC701 -CORROSION AND SURFACE ENGINEERING. The duration of the course is 30 hours from 12.09.2023 to 16.09.2023.

Course Coordinator	HOD	Principal

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PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechanical Engineering

CERTIFICATE

This is to certify that

LEO SONU I

of Paavai Engineering College, studying in Final Year has successfully completed the value added course 23MEVC701 -CORROSION AND SURFACE ENGINEERING. The duration of the course is 30 hours from 12.09.2023 to 16.09.2023.

Course Coordinator	HOD	Principal

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PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechanical Engineering

CERTIFICATE

This is to certify that

SUDARMANI V

of Paavai Engineering College, studying in Final Year has successfully completed the value added course 23MEVC701 -CORROSION AND SURFACE ENGINEERING. The duration of the course is 30 hours from 12.09.2023 to 16.09.2023.

Course Coordinator	HOD	Principal

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PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechanical Engineering

CERTIFICATE

This is to certify that

SATHISH S

of Paavai Engineering College, studying in Final Year has successfully completed the value added course 23MEVC701 -CORROSION AND SURFACE ENGINEERING. The duration of the course is 30 hours from 12.09.2023 to 16.09.2023.

Course Coordinator	HOD	Principal

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PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MECHANICAL ENGINEERING

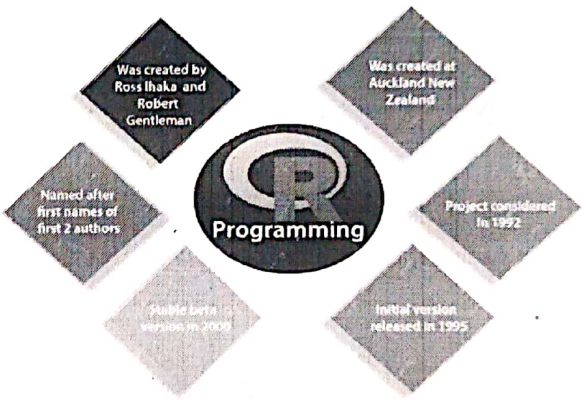
23MEVC801- INTRODUCTION TO R PROGRAMMING

ABOUT THE COURSE:

The R Language stands out as a powerful tool in the modern era of statistical computing and data analysis. Widely embraced by statisticians, data scientists, and researchers, the R Language offers an extensive suite of packages and libraries tailored for data manipulation, statistical modeling, and visualization. In this article, we explore the features, benefits, and applications of the R Programming Language, shedding light on why it has become an indispensable asset for data-driven professionals across various industries.

INTENDED AUDIENCE:

- II-, III- and IV-year students those who were interested in programming techniques.
- Students those interested to develop the concepts using R programming.
- One who wants to apply the R programming concepts in design of product.



DURATION OF THE COURSE:

Period: 18.03.24 to 22.03.24

Total hours: 30 Hours (6 Hours /day)

COURSE OUTCOMES:

At the end of this course students can be able to

- explain the use of data structure and loop functions
- analyse data and generate reports based on the data
- apply various concepts to write programs in R

COURSE IN CHARGE:

1. Dr.M.MAKESH, ASP/MECH, PEC
2. Mr.T.SATHEES, AP/MECH, PEC

VENUE:

COMPUTER LAB 1,

PAAVAI ENGINEERING COLLEGE

Note: Interested students enroll their name to the course in charge on or before 14.03.24.

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PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MECHANICAL ENGINEERING

Date: 09.03.24

CIRCULAR

In our department it is planned to conduct the course on "**23MEVC801- INTRODUCTION TO R PROGRAMMING**" for our students from 18.03.24 to 22.03.24. The students who are interested to improve their knowledge in programming concepts can register their name to the course in charge "**Dr.M.MAKESH, ASP/MECH, PEC,**" on or before **14.03.24**.

COURSE IN CHARGE:

1. **Dr.M.MAKESH, ASP/MECH, PEC**
2. **Mr.T.SATHEES, AP/MECH, PEC**

Head of the Department
Department of Mechanical Engineering

Copy to:

1. All Class rooms.
2. Department Notice board

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23MEVC801 INTRODUCTION R PROGRAMMING LANGUAGE

COURSE OBJECTIVES

To enable the students to

- know the basics concept R programming.
- know the various data types in R programming
- know the various functions in R programming

1. **Introduction**:

   Introduction to Algorithm and programming concepts. What is R? – Why R? – Advantages of R over Other Programming Languages - R Studio: R command Prompt, R script file, comments – Handling Packages in R: Installing a R Package, Few commands to get started: installed. Packages (), package Description (), help (), find. Package (), library () - Input and Output – Entering Data from keyboard – Printing fewer digits or more digits – Special Values functions: NA, Inf and –inf.

   Production system, Inference engine, Working memory, Knowledge base, Pattern matching,

2. R Data Types

   Vectors, Lists, Matrices, Arrays, Factors, Data Frame – R - Variables: Variable assignment, Data types of Variable, Finding Variable ls (), Deleting Variables - R Operators: Arithmetic Operators, Relational Operators, Logical Operator, Assignment Operators, Miscellaneous Operators - R Decision Making: if statement, if – else statement, if – else if statement, switch statement – R Loops: repeat loop, while loop, for loop - Loop control statement: break statement, next statement. Solving problems from Assignment sheet.

3. Functions in R-Language

   R-Function : function definition, Built in functions: mean(), paste(), sum(), min(), max(), seq(), user-defined function, calling a function, calling a function without an argument, calling a function with argument values - R-Strings – Manipulating - R Vectors – Sequence vector, rep function, vector access, vector names, vector math, vector recycling, vector element sorting - R List - Creating a List, List Tags and Values, Add/Delete Element to or from a List, Size of List, Merging Lists, Converting List to Vector - R Matrices – Accessing Elements of a Matrix, Matrix Computations: Addition, subtraction, Multiplication and Division- R Arrays: Naming Columns and Rows, Accessing Array Elements, Manipulating Array Elements, Calculation Across Array Elements - R Factors –creating factors, generating factor levels gl().

TOTAL PERIODS 30

COURSE OUTCOMES

At the end this course, students will be able to

- explain basics concept R programming.
- apply the concepts data types in R programming.

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PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR: 2023 -2024

ATTENDANCE SHEET

Year/Semester : IV / VIII

Name of the course: 23MEVC801- INTRODUCTION TO R PROGRAMMING Date: 22.03.24

Sl.No	Register Number	Name of the student	18.03.24	19.03.24	20.03.24	21.03.24	22.03.24
1.	20107001	AAKASH.S	/	/	/	/	/
2.	20107002	AAKESH KUMAR.S	/	/	/	/	/
3.	20107006	AKASH.G	/	/	/	/	/
4.	20107008	ANBARASAN .A	/	/	/	/	/
5.	20107010	BHARANI SHAKTHI DHARAN.D.S	/	/	/	/	/
6.	20107012	DEEPESH.M	/	/	/	/	/
7.	20107013	GOPALAKANNAN.M	/	/	a	/	/
8.	20107015	JANARTHANAN.K	/	/	/	/	/
9.	20107017	KAVIN.S	/	/	/	/	/
10.	20107018	KODIYARASAN.T	/	/	/	/	/
11.	20107019	MAHENDRAN.G	/	/	/	/	/
12.	20107020	MOHAMED NASAR.R	/	/	/	/	/
13.	20107021	MOORTHI.S	/	/	/	/	/
14.	20107022	NAVEENKUMAR.J	/	/	/	/	/
15.	20107023	NAVEENKUMAR.S	/	/	/	/	/
16.	20107024	NITHESH.T	/	/	/	/	/
17.	20107025	PARTHIBAN.T.A	/	/	/	/	/
18.	20107028	RAJENDRA PRASATH.V	/	/	/	/	/
19.	20107029	RAJKUMAR.K	/	/	/	/	/
20.	20107030	RAJKUMAR.T	/	/	/	/	/
21.	20107031	RANJITH KUMAR.V	/	/	/	/	/
22.	20107032	SARAN RAJ.T	/	/	/	/	/
23.	20107033	SARATHI.C	/	/	/	/	/
24.	20107034	SARATHI.S	/	/	/	/	/

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Sl.No	Register Number	Name of the student	18.03.24	19.03.24	20.03.24	21.03.24	22.03.24
25.	20107036	SATHISH.S	/	/	/	/	/
26.	20107039	SIVACHANDIRAN.C	/	/	/	/	/
27.	20107040	SIVASURYA.S	/	/	/	/	/
28.	20107041	SRINATH.D	/	/	/	/	/
29.	20107042	SUMITH.S	/	/	/	a	/
30.	20107043	THINESHKUMAR.M	/	/	/	/	/
31.	20107044	VENGATESAN.R	/	/	/	/	/
32.	20107045	VETRIVEL.P	/	/	/	/	/
33.	20107047	VISHU.D	/	/	/	/	/
34.	20107302	ASHIF ALI. M	/	/	/	/	/
35.	20107303	BIMAL BAIJU	/	/	/	/	/
36.	20107305	DHARUN. M. S	/	/	/	/	/
37.	20107306	DINESHKUMAR. S	/	/	/	/	/
38.	20107307	GOKUL M	/	/	/	/	/
39.	20107308	GOKUL. V	a	a	a	a	a
40.	20107309	GOUSHIK PRABHU	/	/	/	/	/
41.	20107310	GUNALAN M	/	/	/	/	/
42.	20107311	GUNASEKARAN. M	/	/	/	/	/
43.	20107312	HARIPRASATH. V	/	/	/	/	/
44.	20107314	KARTHICK. K. K	/	/	/	/	/
45.	20107315	KARTHICK R	/	/	/	/	/
46.	20107316	KARTHIKEYAN. K	/	/	/	/	/
47.	20107318	KIRANKUMAR. M	/	/	/	/	/
48.	20107320	KIRUBAKARAN. T	/	/	/	/	/
49.	20107321	LEOSONU I	/	a	/	/	/
50.	20107322	LOGESH.S	/	/	/	/	/
51.	20107323	MANOJKUMAR. V	/	/	/	/	/
52.	20107325	MOHAMMED RIYAS. A	/	/	/	/	/
53.	20107326	MOHAMMED RIYAS. E	/	/	/	/	/
54.	20107328	NISHANTH. R	/	/	/	/	/
55.	20107329	PRAVEENKUMAR. S	/	/	/	/	/
56.	20107330	PREMNATH. L. G	/	/	/	/	/
57.	20107036	SATHISH.S	/	/	/	/	/

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Sl.No	Register Number	Name of the student	12.09.23	13.09.23	14.09.23	15.09.23	16.09.23
58.	20107331	RAGUVARAN. P	/	/	/	/	/
59.	20107332	RAJAMURUGAN. A	/	/	/	/	/
60.	20107333	RAJESHWARAN. S. M. R	/	/	/	/	/
61.	20107334	RAMBOJITH.V	/	/	/	/	/
62.	20107335	RISHIKESAVAN. C. M	/	/	/	/	/
63.	20107336	SARAVANAN. K. S	/	/	/	/	/
64.	20107337	SUDARMANI. V	/	/	/	/	/
65.	20107338	SUDHARSAN. P	/	/	/	/	/
66.	20107341	TAMILMANI. R	/	/	/	/	/
67.	20107342	TAMIZHARASU. S	/	/	/	/	/
68.	20107343	THANGAMANIKANDAN. R	/	/	/	/	/
69.	20107345	YOKESH. S	/	/	/	/	/
70.	20107501	MADHANKUMAR .M	/	/	/	/	/
71.	622122304001	JAISRI A	/	/	/	/	/
72.	622122304002	PRAVIN R B	/	/	/	/	/
73.	622122304005	SATHISH V	/	/	/	/	/
74.	622123304001	ARNAGIRI.A	/	/	/	/	/
75.	622123304002	SUBASH.S	/	/	/	/	/
76.	622123304003	VIGHNESHWARAN.B	/	/	/	/	/

COURSE IN CHARGE:

1. **Dr.M.MAKESH, ASP/MECH, PEC**
2. **Mr.T.SATHEES, AP/MECH, PEC**

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PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechanical Engineering

CERTIFICATE

This is to certify that

SUDARMANI V

of Paavai Engineering College, studying in Final Year has successfully completed the value added course 23MEVC801 -INTRODUCTION TO R PROGRAMMING. The duration of the course is 30 hours from 18.03.2024 to 22.03.2024.

Course Coordinator	HOD	Principal

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PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechanical Engineering

CERTIFICATE

This is to certify that

ANBARASAN A

of Paavai Engineering College, studying in Final Year has successfully completed the value added course 23MEVC801 -INTRODUCTION TO R PROGRAMMING. The duration of the course is 30 hours from 18.03.2024 to 22.03.2024.

Course Coordinator	HOD	Principal

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PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechanical Engineering

CERTIFICATE

This is to certify that

KODIYARASAN T

of Paavai Engineering College, studying in Final Year has successfully completed the value added course 23MEVC801 -INTRODUCTION TO R PROGRAMMING. The duration of the course is 30 hours from 18.03.2024 to 22.03.2024.

Course Coordinator	HOD	Principal

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PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechanical Engineering

CERTIFICATE

This is to certify that

NISHANTH R

of Paavai Engineering College, studying in Final Year has successfully completed the value added course 23MEVC801 -INTRODUCTION TO R PROGRAMMING. The duration of the course is 30 hours from 18.03.2024 to 22.03.2024.

Course Coordinator	HOD	Principal

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23PTVC301 MANUFACTURING AND EVALUATION OF TABLETS

COURSE OBJECTIVES

To enable the students to

- know the formulation of tablets
- know the methods of preparation of tablets
- know the various evaluation tests for tablets

Unit I

Classification of tablets compressed tablets, chewable tablets, sugar coated tablets, film coated tablets, controlled release tablets, delayed release tablets (enteric coated), buccal and sublingual tablets, dental cones, effervescent tablets, vaginal tablets

Unit II

Tablet compression machine, compression machine tooling description of equipment. Defects of tablets during processing capping and lamination, picking and sticking, mottling, weight variation, hardness variation, double impression.

Unit III

Tablet compression machine, compression machine tooling description of equipment. Defects of tablets during processing capping and lamination, picking and sticking, mottling, weight variation, hardness variation, double impression.

TOTAL PERIODS 30

COURSE OUTCOMES

At the end this course, students will be able to

- demonstrate the tablet formulation
- asses the importance of manufacturing of tablets
- know the various techniques involved in evaluation of tablets.

TEXT BOOKS

1. Rostagno, M. A., & Prado, J. M. (Eds.). (2013). Natural product extraction: principles and applications (No. 21). Royal Society of Chemistry.

REFERENCES

1. Eyjolfsson, R. (2014). Design and manufacture of pharmaceutical tablets. Academic Press.

PAAVAI ENGINEERING COLLEGE

(An Autonomous Institution affiliated to Anna university & AICTE, New Delhi)
Namakkal-637018

DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY

CORDIALLY INVITE YOU TO THE VALUE ADDED COURSE ON

MANUFACTURING AND EVALUATION OF TABLETS

on September 12th to 16th 2023 @ 10.00 am.

Venue: AB303

S. Pragathi
Course Coordinator

Dr. R. Praveen Cumar
Head of the Department

Dr. M. PremKumar
Principal

All Department Faculty Members & Students

Invite you one and all

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY

DATE: 04.09.2023

CIRCULAR

It is planned to conduct Five Days Training Course on "Manufacturing and Evaluation of Tablets" for Third semester students from 12.09.2023 to 16.09.2023. The interested students are asked to enroll their name to the course coordinator Ms. S.Pragathi/Pharma on or before 07.09.2022.

Course Co-ordinator: 1. Ms. S. Pragathi/Pharma

HOD/PHARMA

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PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY

VALUE ADDED COURSE ATTENDANCE SHEET

Year / Semester : II / III

Name of the Course : 23PTVC301 – MANUFACTURING AND EVALUATION OF TABLETS

S.No	Register No	Student Name	12.09.23	13.09.23	14.09.23	15.09.23	16.09.23
1.	622122204002	ARIVUKARASAN.R	/	/	/	/	/
2.	622122204003	ASWINTH AJAY.G	/	/	/	/	/
3.	622122204005	CHANDRU.S	/	/	/	/	/
4.	622122204006	DHANUSHKUMAR.R	/	/	/	/	/
5.	622122204007	GOBIKA.A	/	/	/	/	/
6.	622122204008	GOKULRAJ.M	/	/	/	/	/
7.	622122204009	GURUNATH.V	/	/	/	/	/
8.	622122204010	HARIHARAN.C	/	/	/	/	/
9.	622122204011	ILAVARASI.S	/	/	/	/	/
10.	622122204012	IRFAN ALI.I	AB	AB	AB	AB	AB
11.	622122204013	KABILAN.S	/	/	/	/	/
12.	622122204014	KESAVAN.K	/	/	/	/	/
13.	622122204015	KIRUTHIKA.R	/	/	/	/	/
14.	622122204016	KOWSALYA.R	/	/	/	/	/
15.	622122204017	LEKHA SHREE.A.U	/	/	/	/	/
16.	622122204018	LOGESHWARAN.K	/	/	/	/	/
17.	622122204019	MAHESHWARAN.D	/	/	/	/	/
18.	622122204020	NAREN.A	/	/	/	/	/
19.	622122204021	NAVEENKUMAR.V	/	/	/	/	/
20.	622122204022	NECHIKA.R	/	/	/	/	/
21.	622122204023	PRASANTH.S	/	/	/	/	/
22.	622122204024	PRIYADHARSHINI.M	AB	AB	AB	AB	AB
23.	622122204026	RAMANA.M	/	/	/	/	/
24.	622122204027	SANDHIYA.V	/	/	/	/	/
25.	622122204028	SARAVANAKANTH.R	/	/	/	/	/
26.	622122204029	SATHYA SRI.M	/	/	/	/	/
27.	622122204030	SIVARANJANI.N	/	/	/	/	/
28.	622122204031	VELMURUGAN.K	/	/	/	/	/

S. Pragathi
Course Coordinator

HoD

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Pharmaceutical Technology

CERTIFICATE

This is to certify

DHANUSHKUMAR R

of Paavai Engineering College, studying in **Second Year** has successfully completed the **Manufacturing and Evaluation of Tablets** course from **12/09/2023** to **22/09/2023.**

S. Pragathi

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Pharmaceutical Technology

CERTIFICATE

This is to certify

ILAVARASI S

of Paavai Engineering College, studying in **Second Year** has successfully completed the **Manufacturing and Evaluation of Tablets** course from **12/09/2023** to **22/09/2023.**

S. Pragathi

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Pharmaceutical Technology

CERTIFICATE

This is to certify

KIRUTHIKA R

of Paavai Engineering College, studying in **Second Year** has successfully completed the **Manufacturing and Evaluation of Tablets** course from **12/09/2023** to **22/09/2023.**

S. Pragathi

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Pharmaceutical Technology

CERTIFICATE

This is to certify

KOWSALYA R

of Paavai Engineering College, studying in **Second Year** has successfully completed the **Manufacturing and Evaluation of Tablets** course from **12/09/2023** to **22/09/2023.**

S. Pragathi

Course Coordinator

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Pharmaceutical Technology

CERTIFICATE

This is to certify

LOGESHWARAN K

of Paavai Engineering College, studying in **Second Year** has successfully completed the **Manufacturing and Evaluation of Tablets** course from **12/09/2023** to **22/09/2023.**

S. Pragathi

Course Coordinator

HOD

Principal

23PTVC501 MEDICINAL PLANTS CULTIVATION TECHNOLOGY

COURSE OBJECTIVES

To enable the students to

- understand the fundamentals of Medicinal Plants Cultivation
- understand the general Management and cultivation techniques pertaining species to species
- aims to provide knowledge and promotion of Medicinal plants cultivation in scientific guidelines

Unit I

Medicinal Plant: Meaning, definition, concept, importance and properties. Medicinal plants of Thar Desert: Types, Properties and utility. Principle and Technique for Herbs Identification. Herbal medicines, Pharmacopoeia, non-pharmacopoeia or synthetic drugs. Spices with special to India, and Medicinal value of Spices.

Unit II

Improved cultivation techniques of economically important medicinal plants with their economics. Endangered plant species of medicinal values and their cultivation. Crop rotation & intercropping. Greenhouse, Poly house and glass house in the cultivation of medicinal plants. Harvest of Medicinal and Aromatic Plant crops, Diseases Protection.

Unit III

Post-harvest processing techniques and various methods of distillation of herbal plants, Technique of storage of essential oils and medicinal herbs. Use of aromatic oils – description, fragrance in cosmetics, extraction from plant parts – processing – methodologies and procedures, use of Aroma chemicals for value addition, Marketing aspects of essential oils, medicinal herbs and their global status, Weeding, their preservation, package and sale.

TOTAL PERIODS 30

COURSE OUTCOMES

At the end this course, students will be able to

- identify, classify and implement the knowledge of medicinal plants in their daily life.
- understand essential parameters has to be taken as prerequisite of cultivation.
- selection the medicinal plants according toclimate and handle marketing aspects & services.

TEXT BOOKS

1. Ahmad, I., Aqil, F., & Owais, M. (Eds.). (2006). Modern phytomedicine: Turning medicinal plants into drugs. John Wiley & Sons.

REFERENCES

1. Bhattacharjee, S. K. (2000). Handbook of medicinal plants. Aavishkar Publishers

PAAVAI ENGINEERING COLLEGE

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Namakkal-637018

DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY

CORDIALLY INVITE YOU TO THE VALUE ADDED COURSE ON

MEDICINAL PLANTS CULTIVATION TECHNOLOGY

on September 12th to 16th 2023 @ 10.00 am.

Venue: AB304

M.G. Karthih
Course Coordinator

Dr. R. Praveen Cumar
Head of the Department

Dr. M. PremKumar
Principal

All Department Faculty Members & Students

Invite you one and all

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY

DATE: 04.09.2023

CIRCULAR

It is planned to conduct Five Days Training Course on "Medicinal Plants Cultivation Technology" for Fifth semester students from 12.09.2023 to 16.09.2023. The interested students are asked to enroll their name to the course coordinator Mr.M.G.Karthih/Pharma on or before 07.09.2023.

Course Co-ordinator: 1. Mr.M.G.Karthih/Pharma

HOD/PHARMA

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PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY

VALUE ADDED COURSE ATTENDANCE SHEET

Year / Semester : III / V

Name of the Course : 23PTVC501 – MEDICINAL PLANTS CULTIVATION TECHNOLOGY

S.No	Register No	Student Name	12.09.23	13.09.23	14.09.23	15.09.23	16.09.23
1.	622121204001	ABI.A	/	/	/	/	/
2.	622121204002	ABIKOIL.V	/	/	/	/	/
3.	622121204003	ABITHA.S	/	/	/	/	/
4.	622121204006	BHARATHI.S	/	/	/	/	/
5.	622121204007	CHANDRU.V	/	/	/	/	/
6.	622121204008	DEEPA.N	/	/	/	/	/
7.	622121204009	DHARSHINI.S	/	/	/	/	/
8.	622121204010	DHINESH KUMAR.R	/	/	/	/	/
9.	622121204012	GOKULKANNAN.K	/	/	/	/	/
10.	622121204013	GOPINATH.C	/	/	/	/	/
11.	622121204014	GOWRISANKAR.V	/	/	/	/	/
12.	622121204015	GOWTHAM.M	/	/	/	/	/
13.	622121204016	GUGANRAJ.E	/	/	/	/	/
14.	622121204017	GUNASEKARAN.M	/	/	/	/	/
15.	622121204018	HEMANATH.S	/	/	/	/	/
16.	622121204019	JAMUNARANI.R	/	/	/	/	/
17.	622121204020	JANARDHANAN.S	/	/	/	/	/
18.	622121204021	JAYASURYA.R	/	/	/	/	/
19.	622121204022	JEEVA.S	/	/	/	/	/
20.	622121204023	JEEVAANANTH.V	AB	AB	AB	AB	AB
21.	622121204024	KAMALESH.K	/	/	/	/	/
22.	622121204027	LARA ARULISHIYA.A	/	/	/	/	/
23.	622121204028	MOHAMED MUJJAMEEL.S	/	/	/	/	/
24.	622121204029	MOHANAPRIYA.A	/	/	/	/	/
25.	622121204031	POOJA.M	/	/	/	/	/
26.	622121204032	POOVARASAN.S	/	/	/	/	/
27.	622121204033	PRAVEEN KUMAR.T	/	/	/	/	/
28.	622121204036	PRAVIN KUMAR.S	/	/	/	/	/
29.	622121204037	PREMNATH.M	/	/	/	/	/
30.	622121204038	RAGHAVI.R	/	/	/	/	/

31.	622121204040	RAGUL.A	/	/	/	/	/
32.	622121204041	RAGUNATH.S	/	/	/	/	/
33.	622121204042	RAGUPATHI.R	/	/	/	/	/
34.	622121204043	RAJESHWARI.D	/	/	/	/	/
35.	622121204044	ROSI.R	/	/	/	/	/
36.	622121204045	SANJAY.R	/	/	/	/	/
37.	622121204046	SANTHOSHKUMAR.S	/	/	/	/	/
38.	622121204047	SARATHI.R	/	/	/	/	/
39.	622121204049	SRIDHAR.G	/	/	/	/	/
40.	622121204050	SWETHA.R	/	/	/	/	/
41.	622121204052	THRISHA.K	/	/	/	/	/
42.	622121204053	UDHAYAVANAN.K	/	/	/	/	/
43.	622121204054	VEDHAVATHI.R	AB	AB	AB	AB	AB
44.	622121204055	VIKRAM.A	/	/	/	/	/
45.	622121204056	VIMALRAJ.M	/	/	/	/	/
46.	622121204057	VISHVA.V	/	/	/	/	/
47.	622121204058	VIVEKA.R	/	/	/	/	/
48.	622121204501	SANJAY.S	/	/	/	/	/

M. G. Karthi
Course Coordinator

HoD

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Pharmaceutical Technology

CERTIFICATE

This is to certify

ABI A

of Paavai Engineering College, studying in **Third Year** has successfully completed the **Medicinal Plants Cultivation Technology** course from **12/09/2023** to **16/09/2023.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Pharmaceutical Technology

CERTIFICATE

This is to certify

DHARSHINI S

of Paavai Engineering College, studying in **Third Year** has successfully completed the **Medicinal Plants Cultivation Technology** course from **12/09/2023** to **16/09/2023.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Pharmaceutical Technology

CERTIFICATE

This is to certify

GOPINATH C

of Paavai Engineering College, studying in **Third Year** has successfully completed the **Medicinal Plants Cultivation Technology** course from **12/09/2023** to **16/09/2023.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Pharmaceutical Technology

CERTIFICATE

This is to certify

JEEVA S

of Paavai Engineering College, studying in **Third Year** has successfully completed the **Medicinal Plants Cultivation Technology** course from **12/09/2023** to **16/09/2023.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Pharmaceutical Technology

CERTIFICATE

This is to certify

GOWTHAM M

of Paavai Engineering College, studying in **Third Year** has successfully completed the **Medicinal Plants Cultivation Technology** course from **12/09/2023** to **16/09/2023.**

Course Coordinator	HOD	Principal

23PTVC701 PHYTOCHEMISTRY AND BIOLOGICAL ACTIVITIES OF MEDICINAL PLANTS

COURSE OBJECTIVES

To enable the students to

- know phytochemistry and biological activities of medicinal plants
- understand the concepts of phytochemistry.
- understand the herbal medicine and different types.

Unit I

Extraction – purification of bio-active compounds from plants – cold & hot extraction – Soxhlet extraction – crude extracts purification by various solvents.

Unit II

Isolation of bioactive compounds – chromatographic techniques – thin layer chromatography – liquid chromatography – HPLC and UPLC..

Unit III

Herbal medicine – History of herbal medicine – different types of herbal medicine – Ayurveda, Siddha and Unani – Pharmacological action – clinical research and traditional uses of Indian medicinal plants – Eclipta alba, GymnemaSylvestre, Ocimum sanctum, Curcuma longa.

TOTAL PERIODS 30

COURSE OUTCOMES

At the end this course, students will be able to

- able to appreciate the medicinal values of plants.
- know the various techniques involved in the phytochemistry.
- familiarize the bio-active components present in the plants.

TEXT BOOKS

1. Grewal, R.C. 2000. Medicinal Plants, Campus Books International, New Delhi.

REFERENCES

1. Willard, H.H., L. L. Merrit and J.A. Dean, Instrumental Methods of analysis, 1987.

PAAVAI ENGINEERING COLLEGE

(An Autonomous Institution affiliated to Anna university & AICTE, New Delhi)
Namakkal-637018

DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY

Announce value added course on

PHYTOCHEMISTRY AND BIOLOGICAL ACTIVITIES OF MEDICINAL PLANTS

on September 12th to 18th 2023 @ 10.00 am.

Venue: AB305

Dr.B.Dhevahi
Course Coordinator

Dr. R. Praveen Cumar
Head of the Department

Dr. M. PremKumar
Principal

All Department Faculty Members & Students

Invite you one and all.

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY

DATE: 04.09.2023

CIRCULAR

It is planned to conduct Five Days Training Course on "Phytochemistry and Biological Activities of Medicinal Plants" for Seventh semester students from 12.09.2023 to 16.09.2023. The interested students are asked to enroll their name to the course coordinator Dr.B.Dhevahi/Pharma on or before 07.09.2023.

Course Co-ordinator: 1. Dr.B.Dhevahi/Pharma

HOD/PHARMA

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PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY

VALUE ADDED COURSE ATTENDANCE SHEET

Year / Semester : IV / VII

Name of the Course : 23PTVC701 – Phytochemistry and Biological Activities of Medicinal Plants

S.No	Register No	Student Name	12.09.23	13.09.23	14.09.23	15.09.23	16.09.23
1.	20204001	AARTHI.J.L	/	/	/	/	/
2.	20204002	AKASH.R	/	/	/	/	/
3.	20204004	BARATHRAM.R	AB	AB	AB	AB	AB
4.	20204005	CHANDRU.S	/	/	/	/	/
5.	20204006	DHARANI.M	/	/	/	/	/
6.	20204007	DHARSHINI.D	/	/	/	/	/
7.	20204009	GAJENDHIRAN.K	/	/	/	/	/
8.	20204010	GANESHPRABHA.M	/	/	/	/	/
9.	20204011	GAYATHRI.A	/	/	/	/	/
10.	20204012	GOKULAKANNAN.K	/	/	/	/	/
11.	20204013	GOKUL KANNAN.C	/	/	/	/	/
12.	20204014	GURUPRASANNA.S	/	/	/	/	/
13.	20204015	HARISH.S	/	/	/	/	/
14.	20204017	INDHUMATHI.K	/	/	/	/	/
15.	20204019	JANSIRANI.V	/	/	/	/	/
16.	20204021	JOSWA.A	/	/	/	/	/
17.	20204022	KALAISELVAN.P.S	/	/	/	/	/
18.	20204023	KARISHMA.B	/	/	/	/	/
19.	20204024	KEERTHANA.G	/	/	/	/	/
20.	20204025	KIRUBA.V	/	/	/	/	/
21.	20204026	KIRUTHIKA.K	/	/	/	/	/
22.	20204027	KUMARAN.S	/	/	/	/	/
23.	20204028	KUMARESAN.D	/	/	/	/	/
24.	20204029	LOGANATHAN.P	AB	AB	AB	AB	AB
25.	20204031	MANIKANDAN.A.K	/	/	/	/	/
26.	20204032	MENAGA.C	/	/	/	/	/
27.	20204033	PONSUMANRAJ.S	/	/	/	/	/
28.	20204035	PREMKUMAR.R	/	/	/	/	/
29.	20204036	PRIYADHARSHINI.K	/	/	/	/	/
30.	20204037	SANGEETHA.G	/	/	/	/	/
31.	20204039	SANTHIYA.R	/	/	/	/	/

32.	20204040	SANTHOSH.S	/	/	/	/	/
33.	20204041	SILAMBARASAN.P	/	/	/	/	/
34.	20204043	SOWMYA.R	/	/	/	/	/
35.	20204044	SRIKANTH.N	/	/	/	/	/
36.	20204045	SRIMATHI.T	/	/	/	/	/
37.	20204046	SUMA.R	/	/	/	/	/
38.	20204048	THIRUMALAI.A	/	/	/	/	/
39.	20204049	THULASIMANI.D	/	/	/	/	/
40.	20204050	VAISHNAVI.B	/	/	/	/	/
41.	20204051	VENKATESH.V	/	/	/	/	/
42.	20204053	VIJAYAKUMAR.V	/	/	/	/	/
43.	20204501	EZHILARASAN E	/	/	/	/	/
44.	20204701	VAISHNAVI P	/	/	/	/	/

Course Coordinator

HoD

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Pharmaceutical Technology

CERTIFICATE

This is to certify

SANTHIYA R

of Paavai Engineering College, studying in **Final Year** has successfully completed the **Phytochemistry and Biological Activities of Medicinal Plants** course from **12/09/2023** to **16/09/2023.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Pharmaceutical Technology

CERTIFICATE

This is to certify

AARTHI J L

of Paavai Engineering College, studying in **Final Year** has successfully completed the **Phytochemistry and Biological Activities of Medicinal Plants** course from **12/09/2023** to **16/09/2023.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Pharmaceutical Technology

CERTIFICATE

This is to certify

INDHUMATHI K

of Paavai Engineering College, studying in **Final Year** has successfully completed the **Phytochemistry and Biological Activities of Medicinal Plants** course from **12/09/2023** to **16/09/2023.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Pharmaceutical Technology

CERTIFICATE

This is to certify

JOSWA A

of Paavai Engineering College, studying in **Final Year** has successfully completed the **Phytochemistry and Biological Activities of Medicinal Plants** course from **12/09/2023** to **16/09/2023.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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Department of Pharmaceutical Technology

CERTIFICATE

This is to certify

PONSUMANRAJ S

of Paavai Engineering College, studying in **Final Year** has successfully completed the **Phytochemistry and Biological Activities of Medicinal Plants** course from **12/09/2023** to **16/09/2023.**

Course Coordinator	HOD	Principal

23PTVC401 DIET MANAGEMENT IN HEALTH AND DISEASE

COURSE OBJECTIVES

To enable the students to

- understand the principles of nutrition and their role in human health.
- understand Diet planning.
- understand the relationship between nutrition and various health conditions.

Unit I

Food, Nutrition and Nutrients: Food groups based on functions and chemical nature. Nutritional disorders due to deficiency and excess. Energy Value of Foods: Methods of measurement of energy, value of nutrients, BMR (basal metabolic rate) - measurement and factors affecting BMR. Adequate Diet: food guide pyramid, balanced diet. Cereals and Millets: composition, nutritive value and nutrient losses during processing.

Unit II

Cereals and Millets: composition, nutritive value and nutrient losses during processing. Pulses, Legumes, Nuts and Oilseeds: composition, nutritive value and nutrient losses during processing. Importance of germination and malting, anti-nutritional factors. Rancidity of oils and preservation. Vegetables and fruits: Vegetables- composition and nutritive value, changes during cooking, storage.

Unit III

Concept of lifestyle diseases- Importance of lifestyle factors in preventing disease development: diet, exercise, smoking, alcohol etc. Diabetes- Type 1 and type 2, Characteristics, causes, diagnosis, prevention and management. Cancer-Characteristics, causes, diagnosis, prevention, management, basis of treatment modalities. Arteriosclerosis and cardiovascular diseases- Myocardial infarction, congestive heart failure, ischemic diseases - causes, diagnosis and management, hypertension.

TOTAL PERIODS 30

COURSE OUTCOMES

At the end this course, students will be able to

- develop dietary plans to meet nutritional needs of individual across the life span and in various health conditions.
- understand the role of nutrition in the prevention and management of chronic diseases.
- understand concept of life style disorders and their impact on individual health and well being

TEXT BOOKS

1. Fundamentals of Food and Nutrition, 4th Edition, Mudambi R. and Rajgopal M.V. 2001.

REFERENCES

1. Swaminathan M, Principles of Nutrition and Dietetics, 2nd Edition, 2011

PAAVAI ENGINEERING COLLEGE

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Namakkal-637018

DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY

Announce value added course on

DIET MANAGEMENT IN HEALTH AND DISEASE

on March 18th to 22nd 2024 @ 10.00 am.

Venue: AB303

G.Adaikala Selvan
Course Coordinator

Dr. R. Praveen Cumar
Head of the Department

Dr. M. PremKumar
Principal

All Department Faculty Members & Students

Invite you one and all

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY

DATE: 06.03.2024

CIRCULAR

It is planned to conduct Five Days Training Course on "Diet Management in Health and Disease" for Fourth semester students from 18.03.2024 to 22.03.2024. The interested students are asked to enroll their name to the course coordinator Mr.G.Adaikala Selvan/Pharma on or before 14.03.2024.

Course Co-ordinator: 1. Mr.G.Adaikala Selvan /Pharma

HOD/PHARMA

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PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY

VALUE ADDED COURSE ATTENDANCE SHEET

Year / Semester : II / IV

Name of the Course : 23PTVC401 – DIET MANAGEMENT IN HEALTH AND DISEASE

S.No	Register No	Student Name	19.09.22	20.09.22	21.09.22	22.09.22	23.09.22
1.	622122204002	ARIVUKARASAN.R	✓	✓	✓	✓	✓
2.	622122204003	ASWINTH AJAY.G	✓	✓	✓	✓	✓
3.	622122204005	CHANDRU.S	✓	✓	✓	✓	✓
4.	622122204006	DHANUSHKUMAR.R	✓	✓	✓	✓	✓
5.	622122204007	GOBIKA.A	✓	✓	✓	✓	✓
6.	622122204008	GOKULRAJ.M	✓	✓	✓	✓	✓
7.	622122204009	GURUNATH.V	✓	✓	✓	✓	✓
8.	622122204010	HARIHARAN.C	✓	✓	✓	✓	✓
9.	622122204011	ILAVARASI.S	✓	✓	✓	✓	✓
10.	622122204012	IRFAN ALI.I	✓	✓	✓	✓	✓
11.	622122204013	KABILAN.S	✓	✓	✓	✓	✓
12.	622122204014	KESAVAN.K	✓	✓	✓	✓	✓
13.	622122204015	KIRUTHIKA.R	✓	✓	✓	✓	✓
14.	622122204016	KOWSALYA.R	✓	✓	✓	✓	✓
15.	622122204017	LEKHA SHREE.A.U	✓	✓	✓	✓	✓
16.	622122204018	LOGESHWARAN.K	✓	✓	✓	✓	✓
17.	622122204019	MAHESHWARAN.D	✓	✓	✓	✓	✓
18.	622122204020	NAREN.A	✓	✓	✓	✓	✓
19.	622122204021	NAVEENKUMAR.V	✓	✓	✓	✓	✓
20.	622122204022	NECHIKA.R	✓	✓	✓	✓	✓
21.	622122204023	PRASANTH.S	✓	✓	✓	✓	✓
22.	622122204024	PRIYADHARSHINI.M	✓	✓	✓	✓	✓
23.	622122204026	RAMANA.M	✓	✓	✓	✓	✓
24.	622122204027	SANDHIYA.V	✓	✓	✓	✓	✓
25.	622122204028	SARAVANAKANTH.R	✓	✓	✓	✓	✓
26.	622122204029	SATHYA SRI.M	✓	✓	✓	✓	✓
27.	622122204030	SIVARANJANI.N	✓	✓	✓	✓	✓
28.	622122204031	VELMURUGAN.K	AB	AB	AB	AB	AB

Course Coordinator

HoD

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Pharmaceutical Technology

CERTIFICATE

This is to certify

LEKHA SHREE A U

of Paavai Engineering College, studying in **Second Year** has successfully completed the **Diet Management in Health and Disease** course from **18/03/2024** to **22/03/2024.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Pharmaceutical Technology

CERTIFICATE

This is to certify

HARIHARAN C

of Paavai Engineering College, studying in **Second Year** has successfully completed the **Diet Management in Health and Disease** course from **18/03/2024** to **22/03/2024.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Pharmaceutical Technology

CERTIFICATE

This is to certify

NECHIKA R

of Paavai Engineering College, studying in **Second Year** has successfully completed the **Diet Management in Health and Disease** course from **18/03/2024** to **22/03/2024.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Pharmaceutical Technology

CERTIFICATE

This is to certify

SANDHIYA V

of Paavai Engineering College, studying in **Second Year** has successfully completed the **Diet Management in Health and Disease** course from **18/03/2024** to **22/03/2024.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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Department of Pharmaceutical Technology

CERTIFICATE

This is to certify

RAMANA M

of Paavai Engineering College, studying in **Second Year** has successfully completed the **Diet Management in Health and Disease** course from **18/03/2024** to **22/03/2024.**

Course Coordinator	HOD	Principal

23PTVC601 ADVANCED TECHNIQUE IN CLINICAL MICROBIOLOGY

COURSE OBJECTIVES

To enable the students to

- learn the basic and advanced techniques in clinical Laboratory.
- take up additional skill to handle clinical samples for microbiological analysis.
- understand the techniques in culture and media.

Unit I

Organization of laboratory and safety precautions in laboratory – Personal hygiene and care – General health care – Vaccination Schedule for technicians – Laboratory care and cautions – Do‟s and Dont‟s – lab accidents – Cuts and wounds – Fire Accidents (Chemical Gas, Flammable Chemicals, Electrical, Spirit Lamp, Gas) – Chemical burns.

Unit II

Sample collection, processing, preservation and transportation of various clinical pathology samples. Pathological Analysis of clinical specimens. Microscopic analysis of clinical specimens – Urine, Stool, Sputum, Pus, Blood, CSF and other body fluids.

Unit III

Culture methods – Culturing and isolation of pathogens from clinical specimens. Culture media – General purpose media – special media – selective media – differential media – transport media.

TOTAL PERIODS 30

COURSE OUTCOMES

At the end this course, students will be able to

- understand laboratory safety methods.
- understand pathological analysis of clinical specimens.
- gain knowledge about automated techniques in Clinical Laboratory Technology.

TEXT BOOKS

1. Anantha narayanan. R. and Paniker C. K. J. Text Book of Microbiology, 9th Edition Orient Longman, 2013.

REFERENCES

1. James cappuccino, Natalie Sherman. Microbiology A Laboratory manual. 7th Edition. 2004

PAAVAI ENGINEERING COLLEGE

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Namakkal-637018

DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY

CORDIALLY INVITE YOU TO THE VALUE ADDED COURSE ON

ADVANCED TECHNIQUE IN CLINICAL MICROBIOLOGY

on March 18th to 22nd 2024 @ 10.00 am.

Venue: AB304

S.Ilakya
Course Coordinator

Dr. R. Praveen Cumar
Head of the Department

Dr. M. PremKumar
Principal

All Department Faculty Members & Students

Invite you one and all

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY

DATE: 06.03.2024

CIRCULAR

It is planned to conduct Five Days Training Course on "Advanced Technique in Clinical Microbiology" for Sixth semester students from 18.03.2024 to 22.03.2024. The interested students are asked to enroll their name to the course coordinator Ms.S.Ilakya/Pharma on or before 14.03.2024.

Course Co-ordinator: 1. Ms.S.Ilakya/Pharma

HOD/PHARMA

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PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY

VALUE ADDED COURSE ATTENDANCE SHEET

Year / Semester : III / VI

Name of the Course : 23PTVC601 – ADVANCED TECHNIQUE IN CLINICAL MICROBIOLOGY

S.No	Register No	Student Name	18.03.24	19.03.24	20.03.24	21.03.24	22.03.24
1.	622121204001	ABI.A	/	/	/	/	/
2.	622121204002	ABIKOIL.V	/	/	/	/	/
3.	622121204003	ABITHA.S	/	/	/	/	/
4.	622121204006	BHARATHI.S	/	/	/	/	/
5.	622121204007	CHANDRU.V	/	/	/	/	/
6.	622121204008	DEEPA.N	AB	AB	AB	AB	AB
7.	622121204009	DHARSHINI.S	/	/	/	/	/
8.	622121204010	DHINESH KUMAR.R	/	/	/	/	/
9.	622121204012	GOKULKANNAN.K	/	/	/	/	/
10.	622121204013	GOPINATH.C	/	/	/	/	/
11.	622121204014	GOWRISANKAR.V	/	/	/	/	/
12.	622121204015	GOWTHAM.M	/	/	/	/	/
13.	622121204016	GUGANRAJ.E	AB	AB	AB	AB	AB
14.	622121204017	GUNASEKARAN.M	/	/	/	/	/
15.	622121204018	HEMANATH.S	/	/	/	/	/
16.	622121204019	JAMUNARANI.R	/	/	/	/	/
17.	622121204020	JANARDHANAN.S	/	/	/	/	/
18.	622121204021	JAYASURYA.R	/	/	/	/	/
19.	622121204022	JEEVA.S	/	/	/	/	/
20.	622121204023	JEEVAANANTH.V	/	/	/	/	/
21.	622121204024	KAMALESH.K	/	/	/	/	/
22.	622121204027	LARA ARULISHIYA.A	/	/	/	/	/
23.	622121204028	MOHAMED MUJJAMEEL.S	/	/	/	/	/
24.	622121204029	MOHANAPRIYA.A	/	/	/	/	/
25.	622121204031	POOJA.M	/	/	/	/	/
26.	622121204032	POOVARASAN.S	/	/	/	/	/
27.	622121204033	PRAVEEN KUMAR.T	/	/	/	/	/
28.	622121204036	PRAVIN KUMAR.S	/	/	/	/	/
29.	622121204037	PREMNATH.M	/	/	/	/	/
30.	622121204038	RAGHAVI.R	/	/	/	/	/

31.	622121204040	RAGUL.A	/	/	/	/	/
32.	622121204041	RAGUNATH.S	/	/	/	/	/
33.	622121204042	RAGUPATHI.R	/	/	/	/	/
34.	622121204043	RAJESHWARI.D	/	/	/	/	/
35.	622121204044	ROSI.R	/	/	/	/	/
36.	622121204045	SANJAY.R	/	/	/	/	/
37.	622121204046	SANTHOSHKUMAR.S	/	/	/	/	/
38.	622121204047	SARATHI.R	/	/	/	/	/
39.	622121204049	SRIDHAR.G	/	/	/	/	/
40.	622121204050	SWETHA.R	/	/	/	/	/
41.	622121204052	THRISHA.K	/	/	/	/	/
42.	622121204053	UDHAYAVANAN.K	/	/	/	/	/
43.	622121204054	VEDHAVATHI.R	/	/	/	/	/
44.	622121204055	VIKRAM.A	AB	AB	AB	AB	AB
45.	622121204056	VIMALRAJ.M	/	/	/	/	/
46.	622121204057	VISHVA.V	/	/	/	/	/
47.	622121204058	VIVEKA.R	/	/	/	/	/
48.	622121204501	SANJAY.S	/	/	/	/	/

Course Coordinator

HoD

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Pharmaceutical Technology

CERTIFICATE

This is to certify

RAGHAVI R

of Paavai Engineering College, studying in **Third Year** has successfully completed the **Advanced Technique in Clinical Microbiology** course from **18/03/2024** to **22/03/2024.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Pharmaceutical Technology

CERTIFICATE

This is to certify

ROSI R

of Paavai Engineering College, studying in **Third Year** has successfully completed the **Advanced Technique in Clinical Microbiology** course from **18/03/2024** to **22/03/2024.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Pharmaceutical Technology

CERTIFICATE

This is to certify

SWETHA R

of Paavai Engineering College, studying in **Third Year** has successfully completed the **Advanced Technique in Clinical Microbiology** course from **18/03/2024** to **22/03/2024.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

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NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Pharmaceutical Technology

CERTIFICATE

This is to certify

UDHAYAVANAN K

of Paavai Engineering College, studying in **Third Year** has successfully completed the **Advanced Technique in Clinical Microbiology** course from **18/03/2024** to **22/03/2024.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Pharmaceutical Technology

CERTIFICATE

This is to certify

VIVEKA R

of Paavai Engineering College, studying in **Third Year** has successfully completed the **Advanced Technique in Clinical Microbiology** course from **18/03/2024** to **22/03/2024.**

Course Coordinator	HOD	Principal

23PTVC801 **ROLE OF MEDICINAL PLANTS IN SOCIETY**

COURSE OBJECTIVES

To enable the students to

- acquire knowledge on medicinal and aromatic plants
- introduce the concept of traditional herbal medicine.
- acquire knowledge on primary metabolites and its classification.

Unit I

Medicinal Plants – Importance and Scope. Classification of medicinal plants. Cultivation of medicinal plants – Processing and utilization. Chemical nature of crude drugs - Extraction, Preparation and preservation of crude drugs. Ayurveda, Siddha and Unani systems of herbal medicine.

Unit II

Traditional herbal teas. Herbs for woman, Babies and children. Concepts of Herbal garden– Home, School Herbal gardens.

Unit III

Classification and Estimation of primary metabolites- Carbohydrates, fatty acids, aminoacids and Proteins. Secondary Metabolites - Classification , General characters, Chemical nature, Extraction and Estimation methods for Glycosides, Tannins, Volatile oils, Resinous substances, Terpenoids – Phenolic compounds and Alkaloids.

TOTAL PERIODS 30

COURSE OUTCOMES

At the end this course, students will be able to

- understand the drug Extraction methods
- gain knowledge on the various chemical components present in the plants.
- understand the post-harvest technology of herbs

TEXT BOOKS

1. Faroogi, A.A. and B. S. Sreeramu, 2004. Cultivation of medicinal and aromatic crops. Revised edition, Universities Press (India) Private Limited, Hyderabad

REFERENCES

1. Halliwall, B. and J.M.Gutteridge. 1985. Free radicals in Biology and medicine. Oxford university press.

PAAVAI ENGINEERING COLLEGE

(An Autonomous Institution affiliated to Anna university & AICTE, New Delhi)
Namakkal-637018

DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY

CORDIALLY INVITE YOU TO THE VALUE ADDED COURSE ON

ROLE OF MEDICINAL PLANTS IN SOCIETY

on March18th to 22nd 2024 @ 10.00 am.

Venue: AB305

T. Senthil Kumar
Course Coordinator

Dr. R. Praveen Cumar
Head of the Department

Dr. M. PremKumar
Principal

All Department Faculty Members & Students

Invite you one and all.

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY

DATE: 06.03.2024

CIRCULAR

It is planned to conduct Five Days Training Course on "Role of Medicinal Plants in Society" for Eighth semester students from 18.03.2024 to 22.03.2024. The interested students are asked to enroll their name to the course coordinator Mr. T. Senthil Kumar/Pharma on or before 14.03.2024.

Course Co-ordinator: 1. Mr. T. Senthil Kumar/Pharma

HOD/PHARMA

Copy to :

Notice board

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY

VALUE ADDED COURSE ATTENDANCE SHEET

Year / Semester : IV / VIII

Name of the Course : 23PTVC801 – ROLE OF MEDICINAL PLANTS IN SOCIETY

S.No	Register No	Student Name	18.03.24	19.03.24	20.03.24	21.03.24	22.03.24
1.	20204001	AARTHI.J.L	/	/	/	/	/
2.	20204002	AKASH.R	/	/	/	/	/
3.	20204004	BARATHRAM.R	/	/	/	/	/
4.	20204005	CHANDRU.S	/	/	/	/	/
5.	20204006	DHARANI.M	/	/	/	/	/
6.	20204007	DHARSHINI.D	/	/	/	/	/
7.	20204009	GAJENDHIRAN.K	/	/	/	/	/
8.	20204010	GANESHPRABHA.M	/	/	/	/	/
9.	20204011	GAYATHRI.A	/	/	/	/	/
10.	20204012	GOKULAKANNAN.K	/	/	/	/	/
11.	20204013	GOKUL KANNAN.C	/	/	/	/	/
12.	20204014	GURUPRASANNA.S	/	/	/	/	/
13.	20204015	HARISH.S	/	/	/	/	/
14.	20204017	INDHUMATHI.K	/	/	/	/	/
15.	20204019	JANSIRANI.V	/	/	/	/	/
16.	20204021	JOSWA.A	/	/	/	/	/
17.	20204022	KALAISELVAN.P.S	/	/	/	/	/
18.	20204023	KARISHMA.B	/	/	/	/	/
19.	20204024	KEERTHANA.G	/	/	/	/	/
20.	20204025	KIRUBA.V	/	/	/	/	/
21.	20204026	KIRUTHIKA.K	/	/	/	/	/
22.	20204027	KUMARAN.S	/	/	/	/	/
23.	20204028	KUMARESAN.D	/	/	/	/	/
24.	20204029	LOGANATHAN.P	/	/	/	/	/
25.	20204031	MANIKANDAN.A.K	/	/	/	/	/
26.	20204032	MENAGA.C	/	/	/	/	/
27.	20204033	PONSUMANRAJ.S	/	/	/	/	/
28.	20204035	PREMKUMAR.R	/	/	/	/	/
29.	20204036	PRIYADHARSHINI.K	/	/	/	/	/
30.	20204037	SANGEETHA.G	/	/	/	/	/
31.	20204039	SANTHIYA.R	/	/	/	/	/

32.	20204040	SANTHOSH.S					
33.	20204041	SILAMBARASAN.P					
34.	20204043	SOWMYA.R					
35.	20204044	SRIKANTH.N					
36.	20204045	SRIMATHI.T					
37.	20204046	SUMA.R					
38.	20204048	THIRUMALAI.A					
39.	20204049	THULASIMANI.D					
40.	20204050	VAISHNAVI.B					
41.	20204051	VENKATESH.V					
42.	20204053	VIJAYAKUMAR.V					
43.	20204501	EZHILARASAN E					
44.	20204701	VAISHNAVI P					

Course Coordinator

HoD

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Pharmaceutical Technology

CERTIFICATE

This is to certify

SANTHOSH S

of Paavai Engineering College, studying in **Final Year** has successfully completed the **Role of Medicinal Plants in Society** course from **18/03/2024** to **22/03/2024.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Pharmaceutical Technology

CERTIFICATE

This is to certify

SUMA R

of Paavai Engineering College, studying in **Final Year** has successfully completed the **Role of Medicinal Plants in Society** course from **18/03/2024** to **22/03/2024.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Pharmaceutical Technology

CERTIFICATE

This is to certify

SOWMYA R

of Paavai Engineering College, studying in **Final Year** has successfully completed the **Role of Medicinal Plants in Society** course from **18/03/2024** to **22/03/2024.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Pharmaceutical Technology

CERTIFICATE

This is to certify

PREMKUMAR R

of Paavai Engineering College, studying in **Final Year** has successfully completed the **Role of Medicinal Plants in Society** course from **18/03/2024** to **22/03/2024.**

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Pharmaceutical Technology

CERTIFICATE

This is to certify

KARISHMA B

of Paavai Engineering College, studying in **Final Year** has successfully completed the **Role of Medicinal Plants in Society** course from **18/03/2024** to **22/03/2024.**

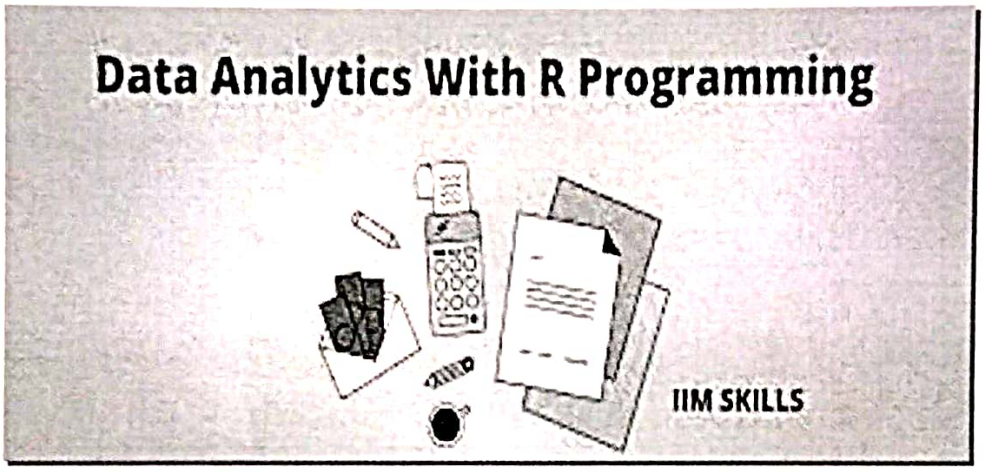
Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE
(Autonomous)
NH 44, PACHAL, NAMAKKAL-637018

DEPARTMENT OF CSE(IoT)

23CIVC401 - DATA ANALYTICS WITH R

R analytics (or R programming language) is a free, open-source software used for all kinds of data science, statistics, and visualization projects. R programming language is powerful, versatile, AND able to be integrated into BI platforms like Sisense, to help you get the most out of business-critical data.



R, and its sister language Python, are powerful tools to help you maximize your data reporting. Instead of using programming languages through a separate development tool like R Studio or Jupyter Notebooks, allowing you to predict critical business outcomes, create interactive dashboards using practical statistics, and easily build statistical models. Integrating R and Python means advanced analytics can happen faster, with accurate and up-to-date data.

INTENDED AUDIENCE:

- II Year B.E., B.TECH., - Students
- Students able to create static files and frameworks with the help of form and interfaces.

DATE: 18.03.2024 TO 22.03.2024

COURSE INCHARGE: MR M. CHITHRASANKAR AP/IOT

DEPARTMENT OF CSE(IOT)

ACADEMIC YEAR 2023-2024

Date:11.03.2024

CIRCULAR

It is planned to conduct Five Days Value Added Course on **"23CIVC401 - Data Analytics With R"** for Fourth semester students from 18.03.2024 to 22.03.2024. The interested students are asked to enroll their name to the course coordinator Mr.N Nijanthan AP/CSE(IOT) on or before 15.03.2024.

Course Incharge: MR M. CHITHRASANKAR AP/IOT

COURSE COORDINATOR

HOD/CSE(IOT)

23CIVC401 DATA ANALYTICS WITH R

COURSE OBJECTIVES

To enable the students to:

- To Understand concepts of data analytics.
- To learn about R Programming basics.
- To learn aboutdata visualization using R.

Unit I Introduction to Data Analytics

Overview of Data Analytics, Need of Data Analytics, Nature of Data, Classification of Data: Structured, Semi-Structured, Unstructured, Characteristics of Data, Applications of Data Analytics..

Unit II R Programming basics

Overview of R programming, Environment setup with R Studio, R Commands, Variables and Data Types, Control Structures, Array, Matrix, Vectors, Factors, Functions, R packages.

Unit III Data visualization using R

Reading and getting data into R (External Data): Using CSV files, XML files, Web Data, JSON files, Databases, Excel files. Working with R Charts and Graphs: Histograms,Boxplots,Bar Charts, Line Graphs, Scatterplots, Pie Charts

TOTAL PERIODS 30

COURSE OUTCOME:

At the end this course, students will be able to :

- Understand concepts of data analytics
- Learnt about R Programming basics
- Know how to implement data visualization using R

TEXT BOOKS

1. An Introduction to R, Notes on R: A Programming Environment for Data Analysis and Graphics. W. N. Venables, D.M. Smith and the R Development Core Team. Version 3.0.1 (2013-05-16). URL: https://cran.r-project.org/doc/manuals/r-release/R-intro.pdf

REFERENCES

1. Data Analysis Using R : A Primer for Data Scientist Paperback – 20 September 2021 by Dr. DhavalMaheta.

DEPARTMENT OF CSE(IOT)

ACADEMIC YEAR 2023-2024

VALUE ADDED COURSES

ATTENDANCE SHEET

Year /Semester: II/04

Name of the Course: 23CSVC401 & DATA ANALYTICS WITH R

S.No	REGISTER NO.	NAME OF THE STUDENT	18.03.2024	19.03.2024	20.03.2024	21.03.2024	22.03.2024
1	622122113001	AAKASH.K					
2	622122113002	ABISHEK.S					
3	622122113003	ADITHYA.J					
4	622122113004	APSARA.A					
5	622122113005	ARUN.P					
6	622122113006	ASHIR JOSEPH.A					
7	622122113007	BELLARASAN.M					
8	622122113009	BHARATHI RAJA.K					
9	622122113010	BOOPATHI.G					
10	622122113011	BRINDHA.S					
11	622122113012	DHANUSH.C.V					
12	622122113013	DHARANIDHARAN.T					
13	622122113014	GOKUL KRISHNAN.M					
14	622122113015	HARIHARAN.G					
15	622122113016	HARISHA.K					
16	622122113017	HARIVASAN.S					
17	622122113018	JAYARAMAN.C					
18	622122113019	KABILAN.S.K					
19	622122113020	KALYAN.S					
20	622122113022	KAVIKUIL.K					
21	622122113024	KILLI VALAVAN.V					
22	622122113025	KRITHIGA.D					
23	622122113026	LAKSHMANAN.S					
24	622122113027	MANOJ.G					
25	622122113028	MEHALA.J					
26	622122113029	MOHAMED SAHUL HAMEED					
27	622122113030	MOHAMMED HUSSAIN.Y					
28	622122113031	MURUGANANTHAM.B					
29	622122113032	MURUGANANTHAM.S					
30	622122113033	NALLUSAMY.V					
31	622122113034	NARESH ARAVINDHAN.N					
32	622122113035	NAVEEN.S					

S.No	REGISTER NO.	NAME OF THE STUDENT	18.03.2024	19.03.2024	20.03.2024	21.03.2024	22.03.2024
33	622122113036	NEAHA SHREE M.J	/	/	/	/	/
34	622122113038	PRAKASH KUMAR.G	/	/	/	/	/
35	622122113039	RASITHA.S	/	/	/	/	/
36	622122113040	RAVIKUMAR.P	/	/	/	/	/
37	622122113041	RITHIKA.S	/	/	/	/	/
38	622122113042	SABARINATHAN.R	/	/	/	/	/
39	622122113043	SAMRAJ.V	/	/	/	/	/
40	622122113044	SANJAY.G	/	/	/	/	/
41	622122113045	SATHYA PRRIYA.C	/	/	/	/	/
42	622122113046	SENTHILKUMAR.T	/	/	/	/	/
43	622122113047	SHESHADRI.R	/	/	/	/	/
44	622122113048	SHYAM.N	/	/	/	/	/
45	622122113049	SIDDHARTHAN.T	/	/	/	/	/
46	622122113050	SRINIVASAN.G	/	/	/	/	/
47	622122113051	SURIYA PRAKASH.G	/	/	/	/	/
48	622122113052	SURYAKUMAR.K	/	/	/	/	/
49	622122113054	TAMILARASAN.V	/	/	/	/	/
50	622122113055	THANVANTHARI RAJAN.R	/	/	/	/	/
51	622122113056	VASANTHAN.S	/	/	/	/	/
52	622122113057	VEDIKOLA.AMARNADH	/	/	/	/	/
53	622122113058	VEERADESIKA.N	/	/	/	/	/
54	622122113061	YUVARAJA.P	/	/	/	/	/

COURSE COORDINATOR

HOD/CSE(IOT)

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of CSE(IOT)

CERTIFICATE

This is to certify that

Arun P

of Paavai Engineering College, studying in Second Year has successfully completed the value-added Course "DATA ANALYTICS WITH R". The duration of the course is 30 hours

(18.03.2024 to 22.03.2024)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of CSE(IOT)

CERTIFICATE

This is to certify that

Rasitha S

of Paavai Engineering College, studying in Second Year has successfully completed the value-added Course "DATA ANALYTICS WITH R". The duration of the course is 30 hours

(18.03.2024 to 22.03.2024)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of CSE(IOT)

CERTIFICATE

This is to certify that

Vasanthan S

of Paavai Engineering College, studying in Second Year has successfully completed the value-added Course "DATA ANALYTICS WITH R". The duration of the course is 30 hours

(18.03.2024 to 22.03.2024)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

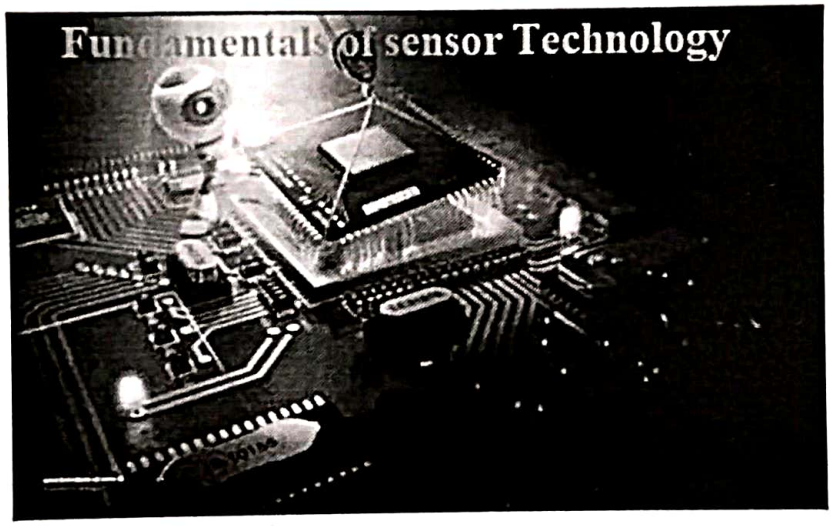
(Autonomous)

NH 44, PACHAL, NAMAKKAL-637018

DEPARTMENT OF CSE(IOT)

23CIVC301 FUNDAMENTALS OF SENSOR TECHNOLOGY

Sensor technology involves devices or systems that detect, measure, and respond to changes in the environment or specific physical, chemical, or biological conditions. Sensors have become essential in our private and public environments, whether they are used for data collection in a lab, industrial process control, blood sugar or cholesterol measurement, home and car alarm systems, or even as large as home-land security.



The transducer is a crucial component of the sensor system, and it is here that many advancements and improvements are made to enhance sensor output on both a quantitative and qualitative level. Recognition materials can play a significant role in sensing processes such signal noise filtering, stability enhancement, and most importantly transduction element. The basic elements of transducers, sensor types, and their uses are discussed here.

INTENDED AUDIENCE:

- II Year B.E., B.TECH., - Students
- Students able to create static files and frameworks with the help of form and interfaces.

DATE: 12.09.2023 to 16.09.2023.

COURSE INCHARGE: Mr.N NIJANTHAN AP/CSE(IOT)

PAAVAI ENGINEERING COLLEGE
(Autonomous)
NH 44, PACHAL, NAMAKKAL-637018

DEPARTMENT OF CSE(IoT)
ACADEMIC YEAR 2023-2024

Date: 05.09.2023

CIRCULAR

It is planned to conduct six days value added course on **"23CIVC301 Fundamentals of sensor technology"** for third semester students from 12.09.2023 to 16.09.2023. The Interested students are asked to enroll their name to the course coordinator Mr M. Chithrasankar AP/IoT. On or before 09.09.2023.

Course Incharge: Mr.N NIJANTHAN AP/CSE(IOT)

COURSE COORDINATOR

HOD/CSE(IOT)

23CIVC301 **FUNDAMENTALS OF SENSOR TECHNOLOGY**

COURSE OBJECTIVES

To enable the students to:

- To learn fundamentals about sensor.
- To acquire knowledge about actuators.
- To learn about basic of Smart sensor.

Unit I Fundamentals of sensor

Overview of sensor, Need for measurements, characteristics of sensor, Errors in sensor, sensor selection, sensor installation.

Unit II Sensor Signal Conditioning

Overview of signal conditioning, Bridge circuits, amplifiers, noise filters, analog to digital converters, digital to analog converters, signal conditioning high impedance sensor.

Unit III Applications of Smart Sensor

Sensor interfacing with arduino board-ultrasonic sensor, temperature sensor, pressure sensor, raspberry pi board interfacing with sensors-ultrasonic sensor, temperature sensor, pressure sensor.

TOTAL PERIODS 30

COURSE OUTCOME:

At the end this course, students will be able to :

- Understand concepts of sensors.
- Learnt signal conditioning
- Know how to interface sensor with arduino and raspberry pi

TEXT BOOKS

1. D.Patranabis, "Sensors and Transducers", PHI,2013

REFERENCES

1. Sabrie Soloman, "Sensors Handbook", 2nd edition, McGraw Hill, 2010

DEPARTMENT OF CSE(IOT)

ACADEMIC YEAR 2023-2024

VALUE ADDED COURSES

ATTENDANCE SHEET

Year /Semester: II/03

Name of the Course: 23CIVC301 FUNDAMENTALS OF SENSOR TECHNOLOGY

S.No	REGISTER NO.	NAME OF THE STUDENT	12.09.2023	13.09.2023	14.09.2023	15.09.2023	16.09.2023
1	622122113001	AAKASH.K	/	/	/	/	/
2	622122113002	ABISHEK.S	/	/	/	/	/
3	622122113003	ADITHYA.J	/	/	/	/	/
4	622122113004	APSARA.A	/	/	/	/	/
5	622122113005	ARUN.P	/	/	/	/	/
6	622122113006	ASHIR JOSEPH.A	/	/	/	/	/
7	622122113007	BELLARASAN.M	/	/	/	/	/
8	622122113009	BHARATHI RAJA.K	/	/	/	/	/
9	622122113010	BOOPATHI.G	/	/	/	/	/
10	622122113011	BRINDHA.S	/	/	/	/	/
11	622122113012	DHANUSH.C.V	/	/	/	/	/
12	622122113013	DHARANIDHARAN.T	/	/	/	/	/
13	622122113014	GOKUL KRISHNAN.M	/	/	/	/	/
14	622122113015	HARIHARAN.G	/	/	/	/	/
15	622122113016	HARISHA.K	/	/	/	/	/
16	622122113017	HARIVASAN.S	/	/	/	/	/
17	622122113018	JAYARAMAN.C	/	/	/	/	/
18	622122113019	KABILAN.S.K	/	/	/	/	/
19	622122113020	KALYAN.S	/	/	/	/	/
20	622122113022	KAVIKUIL.K	/	/	/	/	/
21	622122113024	KILLI VALAVAN.V	/	/	/	/	/
22	622122113025	KRITHIGA.D	/	/	/	/	/
23	622122113026	LAKSHMANAN.S	/	/	/	/	/
24	622122113027	MANOJ.G	/	/	/	/	/
25	622122113028	MEHALA.J	/	/	/	/	/
26	622122113029	MOHAMED SAHUL HAMEED	/	/	/	/	/
27	622122113030	MOHAMMED HUSSAIN.Y	/	/	/	/	/
28	622122113031	MURUGANANTHAM.B	/	/	/	/	/
29	622122113032	MURUGANANTHAM.S	/	/	/	/	/
30	622122113033	NALLUSAMY.V	/	/	/	/	/
31	622122113034	NARESH ARAVINDHAN.N	/	/	/	/	/
32	622122113035	NAVEEN.S	/	/	/	/	/

S.No	REGISTER NO.	NAME OF THE STUDENT	12.09.2023	13.09.2023	14.09.2023	15.09.2023	16.09.2023
33	622122113036	NEAHA SHREE M.J	✓	✓	✓	✓	✓
34	622122113038	PRAKASH KUMAR.G	✓	✓	✓	✓	✓
35	622122113039	RASITHA.S	✓	✓	✓	✓	✓
36	622122113040	RAVIKUMAR.P	✓	✓	✓	✓	✓
37	622122113041	RITHIKA.S	✓	✓	✓	✓	✓
38	622122113042	SABARINATHAN.R	✓	✓	✓	✓	✓
39	622122113043	SAMRAJ.V	✓	✓	✓	✓	✓
40	622122113044	SANJAY.G	✓	✓	✓	✓	✓
41	622122113045	SATHYA PRRIYA.C	✓	✓	✓	✓	✓
42	622122113046	SENTHILKUMAR.T	✓	✓	✓	✓	✓
43	622122113047	SHESHADRI.R	✓	✓	✓	✓	✓
44	622122113048	SHYAM.N	✓	✓	✓	✓	✓
45	622122113049	SIDDHARTHAN.T	✓	✓	✓	✓	✓
46	622122113050	SRINIVASAN.G	✓	✓	✓	✓	✓
47	622122113051	SURIYA PRAKASH.G	✓	✓	✓	✓	✓
48	622122113052	SURYAKUMAR.K	✓	✓	✓	✓	✓
49	622122113054	TAMILARASAN.V	✓	✓	✓	✓	✓
50	622122113055	THANVANTHARI RAJAN.R	✓	✓	✓	✓	✓
51	622122113056	VASANTHAN.S	✓	✓	✓	✓	✓
52	622122113057	VEDIKOLA.AMARNADH	✓	✓	✓	✓	✓
53	622122113058	VEERADESIKA.N	✓	✓	✓	✓	✓
54	622122113061	YUVARAJA.P	✓	✓	✓	✓	✓

COURSE COORDINATOR

HOD/CSE(IOT)

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of CSE(IOT)

CERTIFICATE

This is to certify that

Neaha shree M.J

of Paavai Engineering College, studying in Second Year has successfully completed the value-added Course "Fundamentals of Sensor Technology". The duration of the course is 30 hours

(12.09.2023 to 16.09.2023)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of CSE(IOT)

CERTIFICATE

This is to certify that

Yuvaraja P

of Paavai Engineering College, studying in Second Year has successfully completed the value-added Course "Fundamentals of Sensor Technology". The duration of the course is 30 hours

(12.09.2023 to 16.09.2023)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of CSE(IOT)

CERTIFICATE

This is to certify that

Boopathi G

of Paavai Engineering College, studying in Second Year has successfully completed the value-added Course "Fundamentals of Sensor Technology". The duration of the course is 30 hours

(12.09.2023 to 16.09.2023)

Course Coordinator	HOD	Principal

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)

NAMAKKAL

DEPARTMENT OF MECHATRONICS

DATE: 20.9.2023

CIRCULAR

It is planned to conduct Five Days Value Added Course on "23MTVC301 - SMART MANUFACTURING" for Third semester students from 26.9.2023 to 30.9.2023. The interested students are asked to enroll their names to the Course incharges C. SUMITHRA, AP/MCT and S. RAJASEKAR, AP/MCT on or before 26.9.2023.

Course incharges: 1. C. SUMITHRA, AP/MCT

2. S. RAJASEKAR, AP/MCT

HOD/MCT

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PAAVAI ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to Anna University, Chennai)

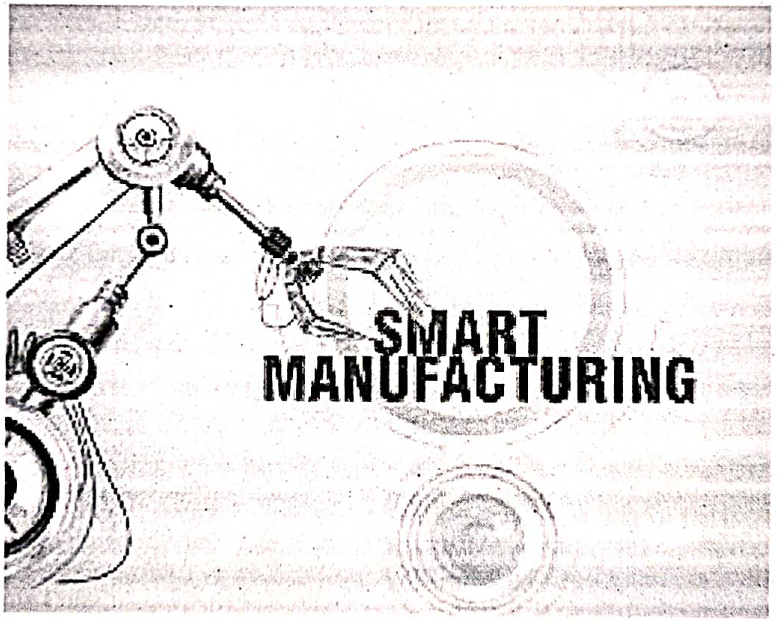
DEPARTMENT OF MECHATRONICS

VALUE ADDED COURSE

23MTVC301 - SMART MANUFACTURING

COURSE CONTENT:

- ✓ 3D PRINTING
- ✓ CAD FOR MANUFACTURING
- ✓ MANUFACTURING TECHNIQUES
- ✓ APPLICATIONS



DATE : 26.9.2023 to 30.9.2023

VENUE: T328

COURSE IN-CHARGE

C. SUMITHRA, AP/MCT

S. RAJASEKAR, AP/MCT

23MTVC301 SMART MANUFACTURING

COURSE OBJECTIVES

To enable the students to

- gain knowledge and skills related to 3D printing technologies.
- learn the selection of material, equipment and development of a product for Industry 4.0 environment.
- understand the various software tools, process and techniques for digital manufacturing.

UNIT 1 3D PRINTING

Introduction, Process, Classifications, Advantages, Additive v/s Conventional Manufacturing processes, Applications.

UNIT 2 CAD FOR MANUFACTURING

CAD Data formats, Data translation, Data loss, STL format.

UNIT 3 MANUFACTURING TECHNIQUES

Stereo- Lithography, LOM, FDM, SLS, SLM, Binder Jet technology. Process, Process parameter, Process Selection for various applications.

UNIT 4 APPLICATION DOMAINS

Aerospace, Electronics, Health Care, Defense, Automotive, Construction, Food Processing, Machine Tools.

UNIT 5 APPLICATIONS

Diameter Inspection of Rivets– Tubing Inspection– Machine Vision in Manufacturing - Robot Guidance.

TOTAL PERIODS 30

COURSE OUTCOMES

At the end this course, students will be able to

- develop CAD models for 3D printing.
- import and Export CAD data and generate .stl file.
- select a specific material for the given application.

TEXT BOOKS

1. Andreas Gebhardt, "Understanding Additive Manufacturing: Rapid Prototyping, Rapid Tooling, Rapid Manufacturing", Hanser Publisher, 2011.

REFERENCES

1. Zhiqiang Fan And Frank Liou, "Numerical Modelling of the Additive Manufacturing (AM) Processes of Titanium Alloy", InTech, 2012.

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)

DEPARTMENT OF MECHATRONICS

ACADEMIC YEAR: 2023-2024

VALUE ADDED COURSE

ATTENDANCE SHEET

YEAR/SEMESTER : II / III

NAME OF THE COURSE : 23MTVC301 - SMART MANUFACTURING

S. NO	REGISTER NUMBER	STUDENT NAME	26.9.23	27.9.23	28.9.23	29.9.23	30.9.23
1	622122108001	ABIMOHAN.K	/	/	/	/	/
2	622122108002	AJAY.M	/	/	/	/	/
3	622122108003	AKASH RAJ	/	/	/	/	/
4	622122108004	AKASH.V	/	/	/	/	/
5	622122108005	AKASHKANNA.D	/	/	/	/	/
6	622122108006	BALAMURUGAN.G	/	/	/	/	/
7	622122108007	CHENGUTUVAN.C	/	/	/	/	/
8	622122108008	CHERISH BABU.L	/	/	/	/	/
9	622122108009	DEEPEK KUMAR.K	/	/	/	/	/
10	622122108010	DEVANATHAN.L	/	/	/	/	/
11	622122108011	DINESH.G	/	/	/	/	/
12	622122108012	GIRIDHARAN.G	/	/	/	/	/
13	622122108013	GOPINATH.M	/	/	/	/	/
14	622122108014	GURUPRASATH.J	/	/	/	/	/
15	622122108015	HARISH.VM	/	/	/	/	/
16	622122108016	KARAN KUMAR.G	/	/	/	/	/
17	622122108017	KATHIRAVAN.D	/	/	/	/	/
18	622122108018	MANOPRIYAN.A	/	/	/	/	/
19	622122108019	MOHAMED ISMAIL.A	/	/	/	/	/
20	622122108020	MANORANJITH.R	/	/	/	/	/
21	622122108021	NAREN KUMAR.S	/	/	/	/	/
22	622122108023	NITHISH.R	/	/	/	/	/

23	622122108024	POOVITHA.S	/	/	/	/	/
24	622122108025	PRAKASH.M	/	/	/	/	/
25	622122108026	PRANESH.S	/	/	/	/	/
26	622122108027	PRAVEEN KUMAR.P.S	/	/	/	/	/
27	622122108028	PREM KUMAR.M	/	/	/	/	/
28	622122108029	PUGAZHENTHI.M	/	/	/	/	/
29	622122108030	RAGAVENDRAN.S	/	/	/	/	/
30	622122108031	RAGUL.K	/	/	/	/	/
31	622122108033	RONIE DESOUZA.D	/	/	/	/	/
32	622122108034	RUBA SRITHAR.P.J	/	/	/	/	/
33	622122108035	SAKTHIVEL.V	/	/	/	/	/
34	622122108036	SEDHU.D	/	/	/	/	/
35	622122108037	SHYAMPRASAD.P	/	/	/	/	/
36	622122108038	SIVA SANTHIP.M	/	/	/	/	/
37	622122108039	SIVABHARATHI.E	/	/	/	/	/
38	622122108040	SIVAKUMAR.K	/	/	/	/	/
39	622122108041	SRIKANTH.S	/	/	/	/	/
40	622122108043	SURIYA PRAKASH.B	/	/	/	/	/
41	622122108044	THAMARAISELVAN.SV	/	/	/	/	/
42	622122108045	THAYANITHI.J	/	/	/	/	/
43	622122108046	VEERA PRAKASH.M	/	/	/	/	/
44	622122108047	VENKATESH.A	AB	AB	AB	AB	AB
45	622122108048	VIGNESH.A	/	/	/	/	/
46	622122108049	VISHWA.J	/	/	/	/	/
47	622122108301	GOWTHAM.C	/	/	/	/	/
48	622122108302	KAVIN KUMAR.R	/	/	/	/	/
49	622122108303	PREM.L	/	/	/	/	/

COURSE INCHARGE

HOD

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechatronics

CERTIFICATE

This is to certify that

ABIMOHAN.K

of Paavai Engineering College, studying in Second year has successfully completed the Value Added Course

"23MTVC301 - SMART MANUFACTURING". The duration of the course is 30 hours

(26.9.2023 to 30.9.2023).

Course in-charge	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechatronics

CERTIFICATE

This is to certify that

AKASHKANNA.D

of Paavai Engineering College, studying in Second year has successfully completed the Value Added Course

"23MTVC301 - SMART MANUFACTURING". The duration of the course is 30 hours

(26.9.2023 to 30.9.2023).

Course in-charge	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechatronics

CERTIFICATE

This is to certify that

AJAY.M

of Paavai Engineering College, studying in Second year has successfully completed the Value Added Course

"23MTVC301 - SMART MANUFACTURING". The duration of the course is 30 hours

(26.9.2023 to 30.9.2023).

Course in-charge	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechatronics

CERTIFICATE

This is to certify that

AKASH RAJ

of Paavai Engineering College, studying in Second year has successfully completed the Value Added Course

"23MTVC301 - SMART MANUFACTURING". The duration of the course is 30 hours

(26.9.2023 to 30.9.2023).

Course in-charge | HOD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechatronics

CERTIFICATE

This is to certify that

AKASH.V

of Paavai Engineering College, studying in Second year has successfully completed the Value Added Course

"23MTVC301 - SMART MANUFACTURING". The duration of the course is 30 hours

(26.9.2023 to 30.9.2023).

Course in-charge	HOD	Principal

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)

NAMAKKAL

DEPARTMENT OF MECHATRONICS

DATE: 20.6.2023

CIRCULAR

It is planned to conduct Five Days Value Added Course on "23MTVC501 - HYBRIDIZATION OF AUTOMOBILE" for Fifth semester students from 26.6.2023 to 30.6.2023. The interested students are asked to enroll their names to the Course incharges Dr. R.T. AJAYKARTHIK, PROF/MCT and C. RAVIKUMAR, AP/MCT on or before 26.6.2023.

Course in-charges: 1. Dr. R.T. AJAYKARTHIK, PROF/MCT

2. C. RAVIKUMAR, AP/MCT

HOD/MCT

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PAAVAI ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to Anna University, Chennai)

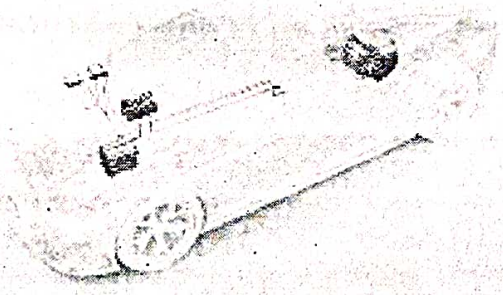
DEPARTMENT OF MECHATRONICS

VALUE ADDED COURSE

23MTVC501 - HYBRIDIZATION OF AUTOMOBILE

COURSE CONTENT:

- ✓ BASICS OF THE HEV
- ✓ VEHICLE MODEL, VEHICLE PERFORMANCE
- ✓ BATTERY CHARGING
- ✓ PLUG-IN HYBRID ELECTRIC VEHICLES



DATE : 26.6.2023 to 30.6.2023

VENUE: T327

COURSE IN-CHARGE

Dr. R.T. AJAYKARTHIK, PROF/MCT

C. RAVIKUMAR, AP/MCT

23MTVC501 HYBRIDIZATION OF AUTOMOBILE

COURSE OBJECTIVES

To enable the students to

- know the basics of electric and hybrid electric vehicles, their architecture, technologies and fundamental
- learn the hybrid electric vehicle architecture, design and component sizing and the power electronics devices used in hybrid electric vehicles.
- understand various electric drives suitable for hybrid electric vehicles.

UNIT 1 INTRODUCTION

Sustainable Transportation, A Brief History of HEVs, Why EVs Emerged and Failed, Architectures of HEVs, Interdisciplinary Nature of HEVs, State of the Art of HEVs, Challenges and Key Technology.

UNIT 2 HYBRIDIZATION OF THE AUTOMOBILE

Vehicle Basics, Basics of the EV, Basics of the HEV, Basics of Plug-In Hybrid Electric Vehicle (PHEV), Basics of Fuel Cell Vehicles (FCVs).

UNIT 3 HEV FUNDAMENTALS

Introduction, Vehicle Model, Vehicle Performance, EV Powertrain Component Sizing, Series Hybrid Vehicle, Parallel Hybrid Vehicle, Wheel Slip Dynamics.

UNIT 4 PLUG-IN HYBRID ELECTRIC VEHICLES

Introduction to PHEVs, PHEV Architectures, Equivalent Electric Range of Blended PHEVs, Fuel Economy of PHEVs.

UNIT 5 SIZING OF EREVS

Power Management of PHEVs, Component Sizing of EREVs, Component Sizing of Blended PHEVs, Vehicle-to-Grid Technology.

TOTAL PERIODS 30

COURSE OUTCOMES

At the end this course, students will be able to

- explain the basics of electric and hybrid electric vehicles, their architecture, technologies and fundamentals.
- analyse the use of different power electronics devices and electrical machines in hybrid electric vehicles.

TEXT BOOKS

1. Iqbal Hussein, "Electric and Hybrid Vehicles: Design Fundamentals", CRC Press, 2nd Edition, 2013.

REFERENCES

1. Seth Leitman, "Build Your Own Electric Vehicle" MC Graw Hill, 1st Edition, 2014.

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS), NAMAKKAL

DEPARTMENT OF MECHATRONICS

ACADEMIC YEAR: 2023-2024

VALUE ADDED COURSE

ATTENDANCE SHEET

YEAR/SEMESTER : III / V

NAME OF THE COURSE : 23MTVC501 - HYBRIDIZATION OF AUTOMOBILE

S. NO	REGISTER NUMBER	STUDENT NAME	26.6.23	27.6.23	28.6.23	29.6.23	30.6.23
1	622121108001	AATHIKESAN.P	/	/	/	/	/
2	622121108002	ABDUL HEMEED.K	/	/	/	/	/
3	622121108003	AJIN.J	/	/	/	/	/
4	622121108004	ARIVU NETHAJI.R	/	/	/	/	/
5	622121108005	BUVANESH.B.J	/	/	/	/	/
6	622121108006	CHANDRU.P	/	/	/	/	/
7	622121108008	DHIVYA.V	/	/	/	/	/
8	622121108009	DINESHKUMAR.G	/	/	/	/	/
9	622121108011	GNANAVELAN.M	/	/	/	/	/
10	622121108012	GOKUL.S	/	/	/	/	/
11	622121108013	HARESH.S	/	/	/	/	/
12	622121108014	HARIHARAN.B	/	/	/	/	/
13	622121108015	JASMINE.J	/	/	/	/	/
14	622121108017	KALAIVANAN.K	/	/	/	/	/
15	622121108018	KANNAN.A	/	/	/	/	/
16	622121108019	KARTHIK.A	/	/	/	/	/
17	622121108020	KISHORE.B	/	/	/	/	/
18	622121108021	MERVIN.M	/	/	/	/	/
19	622121108022	MIDHUN.S	/	/	/	/	/
20	622121108023	MUHAMMAD MUSTHAFA	/	/	/	/	/
21	622121108024	MURALI.S	/	/	/	/	/
22	622121108025	MUTHUPANDI.M	/	/	/	/	/
23	622121108026	PRADEEP.S	/	/	/	/	/

24	622121108027	PRANAVU K PRASAD	/	/	/	/	/
25	622121108028	PRATHAP.A	/	/	/	/	/
26	622121108029	PRITHIK RAJ. R.J	/	/	/	/	/
27	622121108030	RADHAKRISHNAN.V	/	/	/	/	/
28	622121108031	RAGHUL BABU.B	/	/	/	/	/
29	622121108033	RANJITH.S	/	/	/	/	/
30	622121108034	SANGAMESHWAR KAVIN.G	/	/	/	/	/
31	622121108035	SANJIVI.D	/	/	/	/	/
32	622121108036	SATHEESH KUMAR.P	/	/	/	/	/
33	622121108038	SHEIK MUSTHAFA.K	/	/	/	/	/
34	622121108039	SRIDHARAN.L	/	/	/	/	/
35	622121108040	SRINIVINTHRAJ.M	/	/	/	/	/
36	622121108041	SUBASH.A	AB	AB	AB	AB	AB
37	622121108042	SURIYA.S	/	/	/	/	/
38	622121108043	UDHAYANANTH.J	/	/	/	/	/
39	622121108044	VIKNESH.G	/	/	/	/	/
40	622121108045	VISHNU.K	/	/	/	/	/
41	622121108046	YUKESH.S	/	/	/	/	/
42	622121108301	ELAVARASAN.R	/	/	/	/	/
43	622121108303	MOHANKUMAR.S	/	/	/	/	/
44	622121108304	MOHANRAJ .T	AB	AB	AB	AB	AB
45	622121108305	SAKCHIN VICTOR NATHAN.A	/	/	/	/	/
46	622121108501	MUKESH.M	/	/	/	/	/

COURSE INCHARGE

HOD

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechatronics

CERTIFICATE

This is to certify that

DHIVYA.V

of Paavai Engineering College, studying in Final year has successfully completed the Value Added Course

"23MTVC501 - HYBRIDIZATION OF AUTOMOBILE". The duration of the course is 30 hours

(26.6.2023 to **30.6.2023).**

Course in-charge	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechatronics

CERTIFICATE

This is to certify that

CHANDRU.P

of Paavai Engineering College, studying in Final year has successfully completed the Value Added Course **"23MTVC501 - HYBRIDIZATION OF AUTOMOBILE"**. The duration of the course is 30 hours **(26.6.2023** to **30.6.2023).**

Course in-charge	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechatronics

CERTIFICATE

This is to certify that

BUVANESH.B.J

of Paavai Engineering College, studying in Final year has successfully completed the Value Added Course

"23MTVC501 - HYBRIDIZATION OF AUTOMOBILE". The duration of the course is 30 hours

(26.6.2023 to **30.6.2023).**

Course in-charge	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechatronics

CERTIFICATE

This is to certify that

GNANAVELAN.M

of Paavai Engineering College, studying in Final year has successfully completed the Value Added Course

"23MTVC501 - HYBRIDIZATION OF AUTOMOBILE". The duration of the course is 30 hours

(26.6.2023 to **30.6.2023).**

Course in-charge	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechatronics

CERTIFICATE

This is to certify that

DINESHKUMAR.G

of Paavai Engineering College, studying in Final year has successfully completed the Value Added Course **"23MTVC501 - HYBRIDIZATION OF AUTOMOBILE"**. The duration of the course is 30 hours **(26.6.2023** to **30.6.2023).**

Course in-charge	HOD	Principal

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)

NAMAKKAL.

DEPARTMENT OF MECHATRONICS

DATE: 20.6.2023

CIRCULAR

It is planned to conduct Five Days Value Added Course on "23MTVC701 - INDUSTRIAL LASER SYSTEMS" for Seventh semester students from 26.6.2023 to 30.6.2023. The interested students are asked to enroll their names to the Course incharges Dr. C. SURESH, ASP/MCT and S. MANIKANDAN, AP/MCT on or before 26.6.2023.

Course incharges: 1. Dr. C. SURESH, ASP/MCT

2. S. MANIKANDAN, AP/MCT

20/6/23

HOD/MCT

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PAAVAI ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to Anna University, Chennai)

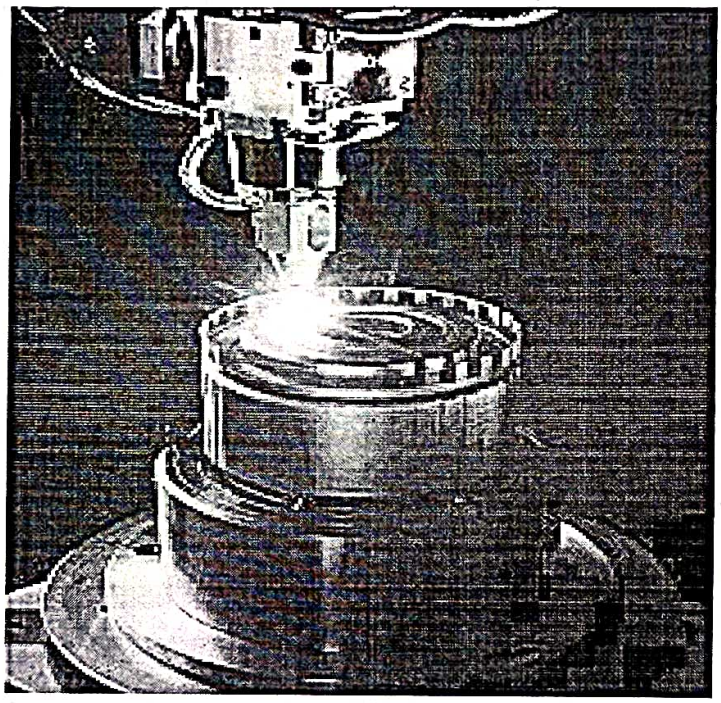
DEPARTMENT OF MECHATRONICS

VALUE ADDED COURSE

23MTVC701 - INDUSTRIAL LASER SYSTEMS

COURSE CONTENT:

- ✓ INTRODUCTION
- ✓ SURFACE TREATMENT
- ✓ LASER WELDING
- ✓ ABSORPTIVITY



DATE : 26.6.2023 to 30.6.2023

VENUE: T326

COURSE IN CHARGE

Dr. C. SURESH, ASP/MCT

S. MANIKANDAN, AP/MCT

23MTVC701 **INDUSTRIAL LASER SYSTEMS**

COURSE OBJECTIVES

To enable the students to

- Know the industrial laser systems and interaction of laser radiation.
- aware the applications of lasers in various materials processing like cutting, welding, surface treatment.

UNIT 1 INTRODUCTION

High power laser systems - Focusing optics - Steering optics - Mechanisms - Overview of industrial lasers - CW &pulsed - Q-switched and Mode locked.

UNIT 2 SURFACE TREATMENT

Surface modification - surface cladding - surface alloying - Hard facing - Shock hardening - laser parameters for surface alloying - process variables - Beam profiles - Different methods to obtain desired penetration depths - Experimental set-up.

UNIT 3 LASER WELDING

Different modes of laser beam welding - Comparison between laser beam and electron beam welding - Influence of different parameters.

UNIT 4 ABSORPTIVITY

Welding speed - Focusing conditions - Advantages and limitations of laser welding - Laser welding of industrial materials

TOTAL PERIODS 30

COURSE OUTCOMES

At the end this course, students will be able to

- gain knowledge about metrological applications
- explain the various laser welding methods.

TEXT BOOKS

1. Ian W. Boyd, 'Laser Processing of Thin Films and Microstructures', Springer - Verlag, 2014.

REFERENCES

1. Duley W.W., 'Laser Processing and Analysis of Materials', Plenum Press, New York, 2012.

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)

NAMAKKAL

DEPARTMENT OF MECHATRONICS

ACADEMIC YEAR: 2023-2024

VALUE ADDED COURSE

ATTENDANCE SHEET

YEAR/SEMESTER : IV / VII

NAME OF THE COURSE : 23MTVC701 - INDUSTRIAL LASER SYSTEMS

S. NO	REGISTER NUMBER	STUDENT NAME	26.6.23	27.6.23	28.6.23	29.6.23	30.6.23
1	20108001	ADHITHYA.M	/	/	/	/	/
2	20108002	ADITYA.K	/	/	/	/	/
3	20108003	BARATH.S	/	/	/	/	/
4	20108004	DHINESH.K	/	/	/	/	/
5	20108005	DINESHKUMAR.G	/	/	/	/	/
6	20108006	FINNEY BABU	/	/	/	/	/
7	20108007	KAMALESH.N	/	/	/	/	/
8	20108008	KRISHVA.R	/	/	/	/	/
9	20108009	MEGANATHAN.C	/	/	/	/	/
10	20108010	NAVEEN.V	/	/	/	/	/
11	20108012	PARTHIBAN.S	/	/	/	/	/
12	20108013	PUGAZHENTHI.E	/	/	/	/	/
13	20108014	RAMACHANDRAN.S	/	/	/	/	/
14	20108015	SARAN.G	/	/	/	/	/
15	20108016	SENTHAMIL SELVAN.M	/	/	/	/	/
16	20108017	VIJAY.K	/	/	/	/	/
17	20108018	YANAMALA MAHI SUDHARASAN RAJU	/	/	/	/	/
18	20108019	YOGESHWARAN.B	/	/	/	/	/
19	20108301	DHIVAKARAN.R	/	/	/	/	/

20	20108302	KRISHNA KUMAR.P	/	/	/	/	/
21	20108303	NAVANETHAN.R	/	/	/	/	/
22	20108304	NAVEEN NISHANNTH.S. R	/	/	/	/	/
23	20108305	VENKATESH.S	/	/	/	/	/
24	20108501	SUBRAMANI.R	/	/	/	/	/

COURSE INCHARGE

HOD

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechatronics

CERTIFICATE

This is to certify that

ADITYA.K

of Paavai Engineering College, studying in Final year has successfully completed the Value Added Course

"23MTVC701 - INDUSTRIAL LASER SYSTEMS". The duration of the course is

30 hours (**26.6.2023** to **30.6.2023**).

Course in-charge	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechatronics

CERTIFICATE

This is to certify that

BARATH.S

of Paavai Engineering College, studying in Final year has successfully completed the Value Added Course

"23MTVC701 - INDUSTRIAL LASER SYSTEMS". The duration of the course is

30 hours (**26.6.2023** to **30.6.2023**).

Course in-charge	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechatronics

CERTIFICATE

This is to certify that

DHINESH.K

of Paavai Engineering College, studying in Final year has successfully completed the Value Added Course

"23MTVC701 - INDUSTRIAL LASER SYSTEMS". The duration of the course is

30 hours **(26.6.2023** to **30.6.2023)**.

Course in-charge	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechatronics

CERTIFICATE

This is to certify that

DINESHKUMAR.G

of Paavai Engineering College, studying in Final year has successfully completed the Value Added Course

"23MTVC701 - INDUSTRIAL LASER SYSTEMS". The duration of the course is

30 hours (**26.6.2023** to **30.6.2023**).

Course in-charge	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechatronics

CERTIFICATE

This is to certify that

ADHITHYA.M

of Paavai Engineering College, studying in Final year has successfully completed the Value Added Course

"23MTVC701 - INDUSTRIAL LASER SYSTEMS". The duration of the course is

30 hours (**26.6.2023** to **30.6.2023**).

Course in-charge	HOD	Principal

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)

NAMAKKAL

DEPARTMENT OF MECHATRONICS

DATE: 20.2.2024

CIRCULAR

It is planned to conduct Five Days Value Added Course on "23MTVC401 - ELECTRONICS PROCESS CONTROL" for Fourth semester students from 27.2.2024 to 2.3.2024. The interested students are asked to enroll their names to the Course incharges C. VIBIN STALIN, AP/MCT and M. VETRISELVAN AP/MCT on or before 27.2.2024.

Course incharges: 1. C. VIBIN STALIN, AP/MCT

2. M. VETRISELVAN, AP/MCT

HOD/MCT

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PAAVAI ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to Anna University, Chennai)

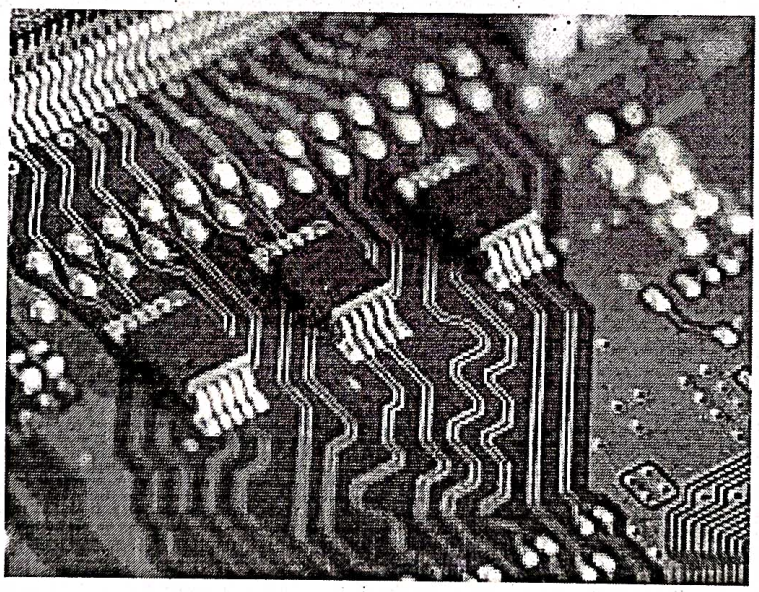
DEPARTMENT OF MECHATRONICS

VALUE ADDED COURSE

23MTVC401 - ELECTRONICS PROCESS CONTROL

COURSE CONTENT:

- ✓ CONVERTERS AND INVERTERS
- ✓ DC AND AC MOTOR CONTROL
- ✓ SERVO AND STEPPER MOTOR CONTROL
- ✓ RELAYS, HEATING CONTROL
- ✓ MOTION CONTROL



DATE : 27.2.2024 to 2.3.2024

VENUE: T328

COURSE IN CHARGE

C. VIBIN STALIN, AP/MCT

M. VETRISELVAN, AP/MCT

23MTVC401 ELECTRONICS PROCESS CONTROL

COURSE OBJECTIVES

To enable the students to

- impart students with analysis of converters and inverters
- outline the formal procedures for relays, heating & welding control
- introduce the concept of process control

UNIT 1 CONVERTERS AND INVERTERS 6

Analysis of controlled and fully controlled converters-Dual converters; Analysis of voltage source and current source- current source and series converters

UNIT 2 DC AND AC MOTOR CONTROL 6

Method of controlling speed- Basic control circuit-DC motor control- AC motor control

UNIT 3 SERVO AND STEPPER MOTOR CONTROL 6

Servo motor control- Stepper motor control- micro controller-based speed control – solid state motor control-PLL control of a DC motor control

UNIT 4 RELAYS, HEATING CONTROL 6

Introduction- principle of relays- electromechanical relay- solid state relays- Latching relays timing relays- Induction heating- dielectric heating

UNIT 5 MOTION CONTROL 6

Elements of process control- temperature control- Flow control- Level control- Methods of motion control- feedback control- Direct digital control

TOTAL PERIODS 30

COURSE OUTCOMES

At the end this course, students will be able to

- design Analysis of voltage source and current source
- acquire knowledge on the basics about principle of relays
- design the process control of elements

TEXT BOOKS

1. Biswanath Paul- Industrial electronics and control- prentice Hall India publisher-2015.

REFERENCES

1. Terry Baltelt- Industrial electronics, devices, systems and applications- Delmar publishers- 2012.

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS), NAMAKKAL

DEPARTMENT OF MECHATRONICS

ACADEMIC YEAR: 2023-2024

VALUE ADDED COURSE

ATTENDANCE SHEET

YEAR/SEMESTER : II / IV

NAME OF THE COURSE : 23MTVC401 - ELECTRONICS PROCESS CONTROL

S. NO	REGISTER NUMBER	STUDENT NAME	27.2.24	28.2.24	29.2.24	1.3.24	2.3.24
1	622122108001	ABIMOHAN.K	/	/	/	/	/
2	622122108002	AJAY.M	/	/	/	/	/
3	622122108003	AKASH RAJ	/	/	/	/	/
4	622122108004	AKASH.V	/	/	/	/	/
5	622122108005	AKASHKANNA.D	/	/	/	/	/
6	622122108006	BALAMURUGAN.G	/	/	/	/	/
7	622122108007	CHENGUTUVAN.C	/	/	/	/	/
8	622122108008	CHERISH BABU.L	/	/	/	/	/
9	622122108009	DEEPEK KUMAR.K	/	/	/	/	/
10	622122108010	DEVANATHAN.L	/	/	/	/	/
11	622122108011	DINESH.G	/	/	/	/	/
12	622122108012	GIRIDHARAN.G	/	/	/	/	/
13	622122108013	GOPINATH.M	/	/	/	/	/
14	622122108014	GURUPRASATH.J	/	/	/	/	/
15	622122108015	HARISH.VM	/	/	/	/	/
16	622122108016	KARAN KUMAR.G	/	/	/	/	/
17	622122108017	KATHIRAVAN.D	/	/	/	/	/
18	622122108018	MANOPRIYAN.A	/	/	/	/	/
19	622122108019	MOHAMED ISMAIL.A	/	/	/	/	/
20	622122108020	MANORANJITH.R	/	/	/	/	/
21	622122108021	NAREN KUMAR.S	/	/	/	/	/
22	622122108023	NITHISH.R	/	/	/	/	/

23	622122108024	POOVITHA.S	/	/	/	/	/
24	622122108025	PRAKASH.M	/	/	/	/	/
25	622122108026	PRANESH.S	/	/	/	/	/
26	622122108027	PRAVEEN KUMAR.P.S	/	/	/	/	/
27	622122108028	PREM KUMAR.M	/	/	/	/	/
28	622122108029	PUGAZHENTHI.M	/	/	/	/	/
29	622122108030	RAGAVENDRAN.S	/	/	/	/	/
30	622122108031	RAGUL.K	/	/	/	/	/
31	622122108033	RONIE DESOUZA.D	/	/	/	/	/
32	622122108034	RUBA SRITHAR.P.J	/	/	/	/	/
33	622122108035	SAKTHIVEL.V	/	/	/	/	/
34	622122108036	SEDHU.D	/	/	/	/	/
35	622122108037	SHYAMPRASAD.P	/	/	/	/	/
36	622122108038	SIVA SANTHIP.M	a	a	a	a	a
37	622122108039	SIVABHARATHI.E	/	/	/	/	/
38	622122108040	SIVAKUMAR.K	/	/	/	/	/
39	622122108041	SRIKANTH.S	/	/	/	/	/
40	622122108043	SURIYA PRAKASH.B	/	/	/	/	/
41	622122108044	THAMARAISELVAN.SV	/	/	/	/	/
42	622122108045	THAYANITHI.J	/	/	/	/	/
43	622122108046	VEERA PRAKASH.M	a	a	a	a	a
44	622122108047	VENKATESH.A	/	/	/	/	/
45	622122108048	VIGNESH.A	/	/	/	/	/
46	622122108049	VISHWA.J	/	/	/	/	/
47	622122108301	GOWTHAM.C	/	/	/	/	/
48	622122108302	KAVIN KUMAR.R	/	/	/	/	/
49	622122108303	PREM.L	/	/	/	/	/

COURSE INCHARGE

HOD

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechatronics

CERTIFICATE

This is to certify that

NITHISH.R

of Paavai Engineering College, studying in second year has successfully completed the Value Added Course

"23MTVC401 - ELECTRONICS PROCESS CONTROL". The duration of the course is 30 hours

(27.2.2024 to **2.3.2024).**

Course in-charge	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechatronics

CERTIFICATE

This is to certify that

POOVITHA.S

of Paavai Engineering College, studying in second year has successfully completed the Value Added Course

"23MTVC401 - ELECTRONICS PROCESS CONTROL". The duration of the course is 30 hours

(27.2.2024 to **2.3.2024).**

Course in-charge	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechatronics

CERTIFICATE

This is to certify that

PRAKASH.M

of Paavai Engineering College, studying in second year has successfully completed the Value Added Course

"23MTVC401 - ELECTRONICS PROCESS CONTROL". The duration of the course is 30 hours

(27.2.2024 to **2.3.2024).**

Course in-charge	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechatronics

CERTIFICATE

This is to certify that

PRANESH.S

of Paavai Engineering College, studying in second year has successfully completed the Value Added Course

"23MTVC401 - ELECTRONICS PROCESS CONTROL". The duration of the course is 30 hours

(27.2.2024 to **2.3.2024).**

Course in-charge

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechatronics

CERTIFICATE

This is to certify that

NAREN KUMAR.S

of Paavai Engineering College, studying in second year has successfully completed the Value Added Course

"23MTVC401 - ELECTRONICS PROCESS CONTROL". The duration of the course is 30 hours

(27.2.2024 to **2.3.2024).**

Course in-charge	HOD	Principal

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)

NAMAKKAL

DEPARTMENT OF MECHATRONICS

DATE: 18.12.2023

CIRCULAR

It is planned to conduct Five Days Value Added Course on "23MTVC601 - MEDITATION AND BALANCED DIET" for Sixth semester students from 26.12.2023 to 30.12.2023. The interested students are asked to enroll their names to the Course incharges R. ARUNBABU, AP/MCT and S. DHINAKAR, AP/MCT on or before 26.12.2023.

Course incharges: 1. R. ARUNBABU, AP/MCT

2. S. DHINAKAR, AP/MCT

HOD/MCT

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PAAVAI ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to Anna University, Chennai)

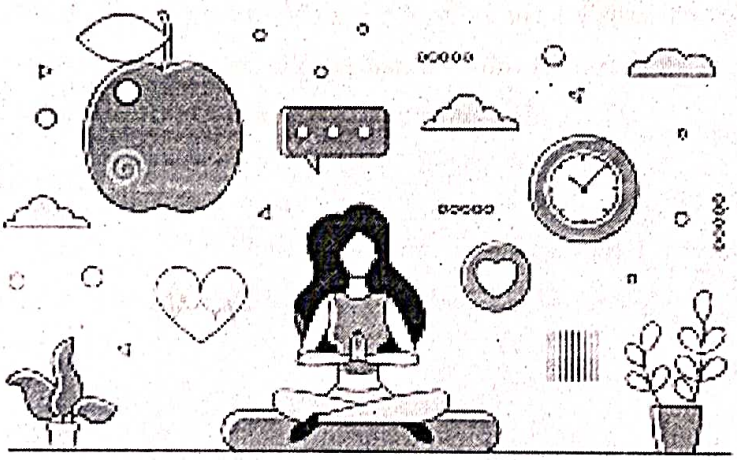
DEPARTMENT OF MECHATRONICS

VALUE ADDED COURSE

23MTVC601 - MEDITATION AND BALANCED DIET

COURSE CONTENT:

- ✓ LIMBS OF YOGA
- ✓ YOGA BENEFITS
- ✓ ASANAS AND BALANCE DIET
- ✓ MEDITATION



DATE : 26.12.2023 to 30.12.2023

VENUE: T327

COURSE IN CHARGE

R. ARUNBABU, AP/MCT

S. DHINAKAR, AP/MCT

23MTVC601 **MEDITATION AND BALANCED DIET**

COURSE OBJECTIVES

To enable the students to

- know about the history and schools of yoga
- know the difference between supreme consciousness and individual consciousness
- apply the knowledge by the way of practice and introspection

UNIT 1 INTRODUCTION

What is Yoga, History of Yoga - Yoga in today's scenario- Schools of Yoga.

UNIT 2 LIMBS OF YOGA

Eight Limbs of Yoga - Sathvic, Rajasic, Tamasic Foods and Thoughts - Science of Yoga Loosening Exercises.

UNIT 3 YOGA BENEFITS

Yogasanas & Benefits - Super Brain Yoga - Surya Namaskar Standing Asanas.

UNIT 4 ASANAS AND BALANCE DIET

Sitting Asanas - Prone Asanas - Supine Asanas; Nutrition and Balance Diet: Needs and Important, Significant of Nutritional Food - Tips for balance diet. Common Diseases for IT professionals: Common diseases – cause, prevention First aid for common sports injuries

UNIT 5 MEDITATION

Mudras Relaxation- Pranayama – Meditation - Meaning and definition; Principles of practicing; Basic Asana and it important, Pranayama and Meditation - Relaxation Techniques.

TOTAL PERIODS 30

COURSE OUTCOMES

At the end this course, students will be able to

- Understand the historical aspects and schools of yoga
- Ensure their physical & mental wellness through yoga practice
- Develop the power to concentrate and have stress free mind

TEXT BOOKS

1. Ramesh Partani, The Complete Secret, Ru Education, 2015.

REFERENCES

1. Iyengar B.K.S. Yoga: Wisdom & Practice, B.K.S. Iyengar, 2012.

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)
NAMAKKAL
DEPARTMENT OF MECHATRONICS
ACADEMIC YEAR: 2023-2024
VALUE ADDED COURSE
ATTENDANCE SHEET

YEAR/SEMESTER : III / VI

NAME OF THE COURSE : 23MTVC601 - MEDITATION AND BALANCED DIET

S. NO	REGISTER NUMBER	STUDENT NAME	26.12.23	27.12.23	28.12.23	29.12.23	30.12.23
1	622121108001	AATHIKESAN.P	/	/	/	/	/
2	622121108002	ABDUL HEMEED.K	/	/	/	/	/
3	622121108003	AJIN.J	/	/	/	/	/
4	622121108004	ARIVU NETHAJI.R	/	/	/	/	/
5	622121108005	BUVANESH.B.J	/	/	/	/	/
6	622121108006	CHANDRU.P	/	/	/	/	/
7	622121108008	DHIVYA.V	/	/	/	/	/
8	622121108009	DINESHKUMAR.G	/	/	/	/	/
9	622121108011	GNANAVELAN.M	/	/	/	/	/
10	622121108012	GOKUL.S	/	/	/	/	/
11	622121108013	HARESH.S	/	/	/	/	/
12	622121108014	HARIHARAN.B	/	/	/	/	/
13	622121108015	JASMINE.J	/	/	/	/	/
14	622121108017	KALAIVANAN.K	/	/	/	/	/
15	622121108018	KANNAN.A	/	/	/	/	/
16	622121108019	KARTHIK.A	/	/	/	/	/
17	622121108020	KISHORE.B	/	/	/	/	/
18	622121108021	MERVIN.M	/	/	/	/	/
19	622121108022	MIDHUN.S	/	/	/	/	/
20	622121108023	MUHAMMAD MUSTHAFA	/	/	/	/	/
21	622121108024	MURALI.S	/	/	/	/	/
22	622121108025	MUTHUPANDI.M	/	/	/	/	/
23	622121108026	PRADEEP.S	/	/	/	/	/
24	622121108027	PRANAVU K PRASAD	/	/	/	/	/

25	622121108028	PRATHAP.A	/	/	/	/	/
26	622121108029	PRITHIK RAJ R.J	/	/	/	/	/
27	622121108030	RADHAKRISHNAN.V	/	/	/	/	/
28	622121108031	RAGHUL BABU.B	/	/	/	/	/
29	622121108033	RANJITH.S	/	/	/	/	/
30	622121108034	SANGAMESHWAR KAVIN.G	/	/	/	/	/
31	622121108035	SANJIVI.D	/	/	/	/	/
32	622121108036	SATHEESH KUMAR.P	/	/	/	/	/
33	622121108038	SHEIK MUSTHAFA.K	/	/	/	/	/
34	622121108039	SRIDHARAN.L	/	/	/	/	/
35	622121108040	SRINIVINTHRAJ.M	/	/	/	/	/
36	622121108041	SUBASH.A	/	/	/	/	/
37	622121108042	SURIYA.S	/	/	/	/	/
38	622121108043	UDHAYANANTH.J	/	/	/	/	/
39	622121108044	VIKNESH.G	/	/	/	/	/
40	622121108045	VISHNU.K	/	/	/	/	/
41	622121108046	YUKESH.S	/	/	/	/	/
42	622121108301	ELAVARASAN.R	/	/	/	/	/
43	622121108303	MOHANKUMAR.S	/	/	/	/	/
44	622121108304	MOHANRAJ .T	/	/	/	/	/
45	622121108305	SAKCHIN VICTOR NATHAN.A	/	/	/	/	/
46	622121108501	MUKESH.M	a	a	a	a	a

COURSE INCHARGE

HOD

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechatronics

CERTIFICATE

This is to certify that

AJIN.J

of Paavai Engineering College, studying in Third year has successfully completed the Value Added Course

"23MTVC601 - MEDITATION AND BALANCED DIET". The duration of the course is

30 hours **(26.12.2023** to **30.12.2023).**

Course in-charge	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechatronics

CERTIFICATE

This is to certify that

AATHIKESAN.P

of Paavai Engineering College, studying in Third year has successfully completed the Value Added Course **"23MTVC601 - MEDITATION AND BALANCED DIET"**. The duration of the course is 30 hours **(26.12.2023** to **30.12.2023)**.

Course in-charge

HOD

Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechatronics

CERTIFICATE

This is to certify that

ABDUL HEMEED.K

of Paavai Engineering College, studying in Third year has successfully completed the Value Added Course

"23MTVC601 - MEDITATION AND BALANCED DIET". The duration of the course is

30 hours **(26.12.2023** to **30.12.2023).**

Course in-charge | HOD | Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechatronics

CERTIFICATE

This is to certify that

BUVANESH.B.J

of Paavai Engineering College, studying in Third year has successfully completed the Value Added Course **"23MTVC601 - MEDITATION AND BALANCED DIET"**. The duration of the course is 30 hours **(26.12.2023** to **30.12.2023).**

Course in-charge	HOD	Principal

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechatronics

CERTIFICATE

This is to certify that

ARIVU NETHAJI.R

of Paavai Engineering College, studying in Third year has successfully completed the Value Added Course

"23MTVC601 - MEDITATION AND BALANCED DIET". The duration of the course is

30 hours **(26.12.2023** to **30.12.2023).**

Course in-charge	HOD	Principal

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)

NAMAKKAL

DEPARTMENT OF MECHATRONICS

DATE: 19.12.2022

CIRCULAR

It is planned to conduct Five Days Value Added Course on "23MTVC801 - WOMEN EMPOWERMENT" for Seventh semester students from 26.12.2022 to 30.12.2022. The interested students are asked to enroll their names to the Course incharges Dr. D.R.P. RAJARATHNAM, PROF & HOD /MCT and T. PARKAVI, AP/MCT on or before 26.12.2022.

Course incharges: 1. Dr. D.R.P. RAJARATHNAM, PROF & HOD/MCT

2. T. PARKAVI, AP/MCT

19/12/22

HOD/MCT

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PAAVAI ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to Anna University, Chennai)

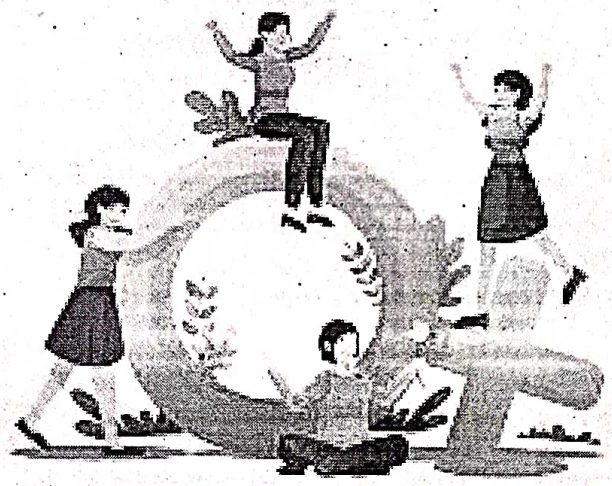
DEPARTMENT OF MECHATRONICS

VALUE ADDED COURSE

23MTVC801 - WOMEN EMPOWERMENT

COURSE CONTENT:

- ✓ FUNDAMENTAL CONCEPTS
- ✓ SOCIAL RESPONSIBILITIES
- ✓ ROLE IN ECONOMIC DEVELOPMENT
- ✓ POLITICAL PARTICIPATION
- ✓ SOCIAL ISSUES



WOMEN EMPOWERMENT

DATE : 26.12.2023 to 30.12.2023

VENUE: T326

COURSE IN CHARGE

Dr. D.R.P. RAJARATHNAM, PROF & HOD /MCT

T. PARKAVI, AP/MCT

23MTVC801 WOMEN EMPOWERMENT

COURSE OBJECTIVES

To enable the students to

- sensitize the participants regarding the issues of gender and the gender inequalities prevalent.
- introduce gender sensitization and related issues.

UNIT 1 FUNDAMENTAL CONCEPTS

Definition - Objectives; Importance of Women's Studies; Women's Studies as an Academic Discipline; Role of UGC Centre for Women's Studies; Women's Studies in India and Abroad – Origin and Growth.

UNIT 2 SOCIAL RESPONSIBILITIES

Higher Education; Gender issues in Health, Environment, Family welfare Measures, Indecent representation of Women in media; Women in Difficult circumstances; Constitutional.

UNIT 3 ROLE IN ECONOMIC DEVELOPMENT

Role of Women in Economic Development – Female Poverty and Poverty alleviation programmes; Status of Women farmers and land rights; Women Entrepreneurs; Impact of Globalization on working women.

UNIT 4 POLITICAL PARTICIPATION

Political participation of women – Political Socialization - Women leaders in politics- Women in Local Governance- Barriers- Reservation policies- Women's Political Rights: CEDAW.

UNIT 5 SOCIAL ISSUES

Sex Ratio child marriage, Dowry & Property Rights, Violence against Women, Domestic violence, Female Headed Households', Women in the Unorganized sector of Employment.

TOTAL PERIODS 30

COURSE OUTCOMES

At the end this course, students will be able to

- develop social consciousness among the students
- encourage capacity building among the students to enable them to engage in policy decisions
- remove gender biases in all fields of life in the process of gender equality for nation building

TEXT BOOKS

1. Amy S. Wharton. (2005). "The Sociology of Gender: An Introduction to Theory and Research". KeyThemes in Sociology. Blackwell Publishing, UK, Indian Reprint, Kilaso Books, New Delhi.

REFERENCES

1. Maithreyi Krishna Raj. (1986). "Women Studies in India: Some Perspectives". Popular Prakasham, Bombay.

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)

NAMAKKAL

DEPARTMENT OF MECHATRONICS

ACADEMIC YEAR: 2023-2024

VALUE ADDED COURSE

ATTENDANCE SHEET

YEAR/SEMESTER : IV / VIII

NAME OF THE COURSE : 23MTVC801 - WOMEN EMPOWERMENT

S. NO	REGISTER NUMBER	STUDENT NAME	26.12.23	27.12.23	28.12.23	29.12.23	30.12.23
1	20108001	ADHITHYA.M	/	/	/	/	/
2	20108002	ADITYA.K	/	/	/	/	/
3	20108003	BARATH.S	/	/	/	/	/
4	20108004	DHINESH.K	/	/	/	/	/
5	20108005	DINESHKUMAR.G	/	/	/	/	/
6	20108006	FINNEY BABU	/	/	/	/	/
7	20108007	KAMALESH.N	/	/	/	/	/
8	20108008	KRISHVA.R	/	/	/	/	/
9	20108009	MEGANATHAN.C	/	/	/	/	/
10	20108010	NAVEEN.V	/	/	/	/	/
11	20108012	PARTHIBAN.S	/	/	/	/	/
12	20108013	PUGAZHENTHI.E	/	/	/	/	/
13	20108014	RAMACHANDRAN.S	/	/	/	/	/
14	20108015	SARAN.G	/	/	/	/	/
15	20108016	SENTHAMIL SELVAN.M	/	/	/	/	/
16	20108017	VIJAY.K	/	/	/	/	/
17	20108018	YANAMALA MAHI SUDHARASAN RAJU	/	/	/	/	/
18	20108019	YOGESHWARAN.B	/	/	/	/	/

19	20108301	DHIVAKARAN.R	/	/	/	/	/
20	20108302	KRISHNA KUMAR.P	AB	AB	AB	AB	AB
21	20108303	NAVANETHAN.R	/	/	/	/	/
22	20108304	NAVEEN NISHANNTH.S. R	/	/	/	/	/
23	20108305	VENKATESH.S	/	/	/	/	/
24	20108501	SUBRAMANI.R	/	/	/	/	/

COURSE INCHARGE

HOD

PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechatronics

CERTIFICATE

This is to certify that

NAVEEN.V

of Paavai Engineering College, studying in Final year has successfully completed the Value Added Course

"23MTVC801 - WOMEN EMPOWERMENT". The duration of the course is

30 hours **(26.12.2023** to **30.12.2023).**

Course in-charge	HOD	Principal

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(Autonomous)

NH-44 (Formerly NH-7), Pachal, Namakkal - 637018

Department of Mechatronics

CERTIFICATE

This is to certify that

FINNEY BABU

of Paavai Engineering College, studying in Final year has successfully completed the Value Added Course **"23MTVC801 - WOMEN EMPOWERMENT"**. The duration of the course is 30 hours **(26.12.2023** to **30.12.2023).**

Course in-charge	HOD	Principal

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CERTIFICATE

This is to certify that

MEGANATHAN.C

of Paavai Engineering College, studying in Final year has successfully completed the Value Added Course

"23MTVC801 - WOMEN EMPOWERMENT". The duration of the course is

30 hours **(26.12.2023** to **30.12.2023).**

Course in-charge	HOD	Principal

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Department of Mechatronics

CERTIFICATE

This is to certify that

KAMALESH.N

of Paavai Engineering College, studying in Final year has successfully completed the Value Added Course

"23MTVC801 - WOMEN EMPOWERMENT". The duration of the course is

30 hours **(26.12.2023** to **30.12.2023).**

Course in-charge	HOD	Principal

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Department of Mechatronics

CERTIFICATE

This is to certify that

KRISHVA.R

of Paavai Engineering College, studying in Final year has successfully completed the Value Added Course

"23MTVC801 - WOMEN EMPOWERMENT". The duration of the course is

30 hours **(26.12.2023** to **30.12.2023).**

Course in-charge	HOD	Principal