



**PAAVAI ENGINEERING COLLEGE, NAMAKKAL – 637 018**  
**(AUTONOMOUS)**

Affiliated to Anna university Chennai and approved by AICTE, New Delhi.

Accredited by NBA, New Delhi and NAAC with “ A “ Grade

# Value Added Course

# **PAAVAI ENGINEERING COLLEGE**

**(AUTONOMOUS)**

## **GUIDELINES FOR CONDUCTING AND ASSESSING VALUE ADDED COURSES**

A Value added course offered by a department can be attended by both UG and PG students. It is to be noted that the value added course offered should not be a course listed in the curriculum of the programme

### **Course Structure**

The request for approval of syllabus along with the schedule for the value added course should be communicated to Dean Academics and Controller of the Examinations at least 15 days before the date of commencement of the course. The Syllabus (30 periods), schedule and the details of faculty handling the course should be approved by the **Head of Institution**.

- a. The value added courses may be also conducted during Saturdays/ week ends/ vacation period.
- b. Industry experts / eminent academicians from other Institutes / parent institutions are eligible to offer the value added course.
- c. The course can be offered only if there are at least 5 students opting for it.

### **Assessment**

The value added courses shall carry 100 marks and shall be evaluated through internal assessments only.

- a. Two Assessments shall be conducted preferably one in the middle and the other at the end of the course by the department concerned
- b. The duration of assessment is one hour each
- c. The total marks obtained in the tests shall be converted to 100 marks and rounded to the nearest integer

### **Passing Requirement**

The passing requirement for value added courses shall be 50% of the total marks and 75% of attendance. Those students who satisfy the above norms are eligible to get a certificate.

**COURSE OBJECTIVES**

To enable the students to

- Use basic and advanced features of current CAD software.
- Understand how CAD technology can be leveraged in the design process.

**INTRODUCTION TO CAD, CAE, PDM**

Features of solid works, various tools available in Solid works for product design – Solid Works GUI – feature manager, design tree, Callouts, Handles, Confirmation corner, mouse buttons. Keyboard shortcuts, Command manager–File management.

**SKETCHING**

Sketching environment – Sketch entities – Inference line, Centerline line, Line, Circle, Arc, Ellipse, Rectangle, Slots, Polygon, Ellipse, Partial Ellipse, Spline, Spline tools, Points, Text, Construction geometry, Snap, grid – Sketch Relations– Blocks – Make block, Edit block, Insert block, Add/Remove Entities, Rebuild, Save, Explode.

**INTRODUCTION TO PART MODELING**

Reference geometry – Co-ordinates, Plane, Axis and Points – Modeling features – Extrude, Revolve, Swept and Loft– Relations –Adding Sketch Relation, Automatic relations – Creating extrude features — Creating revolve features–Creating helix and spiral – Creating loft features

**PART MODELING – FEATURES**

Fillets, Chamfers, Shell, Rib, Draft, Hole – Creating pattern – Linear pattern, Circular pattern, Sketch driven pattern, Curve driven pattern, Table driven pattern, Fill pattern, Mirror – Other tools – Inserting library feature, Measuring geometries, Materials, Mass properties, Selection manager, Multiple body concepts

**ASSEMBLY MODELING**

Introduction to assembly modeling & approaches – Top down and bottom up approach – Applying standard mates–Coincident, Parallel, Perpendicular, Tangent, Concentric, Lock, Distance, Angle – Top down design – Layout sketch, Work part in the context of an assembly

**TOTAL PERIODS 30**

**COURSEOUTCOMES**

Upon completion of this course the student will

- demonstrate competency with multiple drawing and modification commands in SolidWorks.
- create three-dimensional solid models.

**TEXT BOOK & MANUALS**

- <https://files.solidworks.com/pdf/introsw.pdf>



# **PAAVAI ENGINEERING COLLEGE**

(AUTONOMOUS)

**DEPARTMENT OF AERONAUTICAL ENGINEERING**

## **COMPUTER AIDED DESIGN-SOLIDWORKS**

### **ABOUT THE COURSE:**

SOLIDWORKS is Premium software integrates a broad range of mechanical CAD, design validation, product data management, design communication, and CAD productivity tools in a single, affordable, easy to use package.

### **Who Can Join?**

- II, III, IV Year of B.E,B.Tech– students
- Those who want to become a software specialist.
- 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

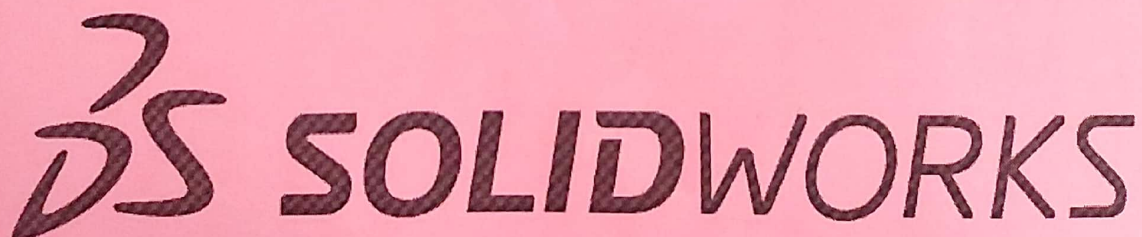
**Date:** 30.11.2017-04.12.2017

### **Venue:**

Harita Tech serve lab,  
Core Engineering Block  
Paavai Engineering college

### **Course Incharge**

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







**PAAVAI ENGINEERING COLLEGE**  
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**NAMAKKAL -637 018**

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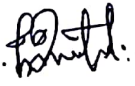
Accredited by NBA, New Delhi and NAAC with "A" Grade

**DEPARTMENT OF AERONAUTICAL ENGINEERING**

DATE: 20.11.2017

**CIRCULAR**

It is planned to conduct Five Days Training Course on "Computer Aided Design-  
SOLIDWORKS" for Sixth semester students from 30.11.2017- 05.12.2017 .The interested  
students are asked to enroll their name to the course coordinator R.Ramachandra  
Prabhu,AP/AERO on or before date.(Spot registration can also be permitted).

Course Co-ordinator: 1. 

  
HOD/AERO 20.11.17

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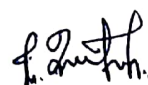
# PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF AERONAUTICAL ENGINEERING

## Value added course Attendance sheet

S.No	Reg.No	Student Name	30.11.17	01.12.17	02.12.17	04.12.17	05.12.17
1.	15101001	ABINASH.A	a	/	/	/	/
2.	15101002	ABINESH.K	/	/	/	/	/
3.	15101003	ABINESH.S	/	/	/	/	/
4.	15101004	AJITH KUMAR S	a	a	/	/	/
5.	15101006	ARUL.R.T	/	/	/	/	/
6.	15101007	DEEPA.S	/	/	/	/	/
7.	15101010	GNANAM.P	/	/	/	/	/
8.	15101011	GOKULARAJAN.A	/	/	/	a	a
9.	15101012	GOWTHAMAN.D	/	/	/	/	/
10.	15101015	KAVIN KUMAR.E	/	/	/	/	/
11.	15101016	KIRUBAKARAN.P	/	/	/	/	/
12.	15101017	LATHA.E	/	/	/	/	/
13.	15101018	MAHESHKUMAR.M	/	/	/	/	/
14.	15101019	MYTHILI.M	/	/	/	/	/
15.	15101021	PONSIVA PARVATHI.M	/	/	/	/	/
16.	15101022	PRAVEENKUMAR.L	/	/	/	/	/
17.	15101023	SAKTHIBALAN.C	a	/	/	/	/
18.	15101024	SAKTHIVEL.B	/	/	/	/	/
19.	15101025	SAKTHIVEL.P	a	/	/	/	a
20.	15101026	SHANMUGAPRIYA.P	/	/	/	/	/
21.	15101027	SHANMUGASUNDARAM.S	/	/	a	/	/
22.	15101028	SIMON ROSARIO.B.J	/	/	/	/	/
23.	15101029	SURYA.R	/	/	/	/	/
24.	15101030	TAMILZHAGAN.V	/	a	/	/	/
25.	15101031	VAIRAMOORTHIS	/	/	/	a	/



Course Coordinator



# PAAVAI ENGINEERING COLLEGE

(Autonomous)

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

Department of Aeronautical Engineering

## CERTIFICATE

This is to certify

**Sakthivel .B**

of Paavai Engineering College, studying in Third Year has successfully completed the

**Computer Aided Design - Solidworks course from 30/11/2017 to 04/12/2017.**

Course Coordinator

HOD

Principal



**COURSE OBJECTIVES**

To enable the students to

- Acquire a clear understanding of theory and application of Information
- Community technology in various fields and promoting the applications of ICT in Agriculture

**Unit I**

Introduction to Computers, Anatomy of Computers, Memory Concepts, Units of Memory, Operating System, definition and types, Applications of MS-Office for creating, Editing and Formatting a document, Data presentation, tabulation and graph creation, statistical analysis, mathematical expressions, Database, concepts and types, creating database, uses of DBMS in Agriculture, Internet and World Wide Web (WWW), Concepts, components and creation of web, HTML, XML coding.

**Unit II**

Computer Programming, General Concepts, Documentation and Program Maintenance, Debugging programs, Errors. Introduction to Visual Basic, Java, Fortran, C/ C++, etc, concepts and standard input/output operations, Variables and Constants, Operators and Expressions, Flow of control, Inbuilt and User defined functions, programming techniques for agriculture. e-Agriculture, concepts, design and development. Application of innovative ways to use information and communication technologies (IT) in Agriculture. ICT for Data Collection, formation of development programmes, monitoring and evaluation of Programmers.

**UNIT III**

Models in Agriculture: statistical, weather analysis and crop simulation models, concepts, structure, inputs-outputs files, limitation, advantages and application of models for understanding plant processes, sensitivity, verification, calibration and validation. IT application for computation of water and nutrient requirement of crops, Computer-controlled devices (automated systems) for Agri-input management, Smartphone mobile apps in Agriculture for farm advises, market price, postharvest management etc; Geospatial technology, concepts, techniques, components and uses for generating valuable agri-information. Decision support systems, taxonomy, components, framework, classification and applications in Agriculture, DSS, Agriculture Information/Expert System, Soil Information Systems etc for supporting Farm decisions.

TOTAL PERIODS 30

### COURSE OUTCOMES

At the end this course, students will be able to

- Understanding basic concept of computer.
- Basic concept database, Internet and WWW.
- Use of IT application and different IT tools in Agriculture.

### TEXT BOOKS

1. Pradeep K. Sinha and Priti Sinha Computer Fundamentals, III edition, BPB Publications, B-14, Connaught Place, New Delhi – 110 001.

### REFERENCES

1. I.P.K. Sinha Computer Fundamentals, BPB Publications, B-14, Connaught Place, New Delhi – 110 001.

P. Carthikya  
HOD / AGRI



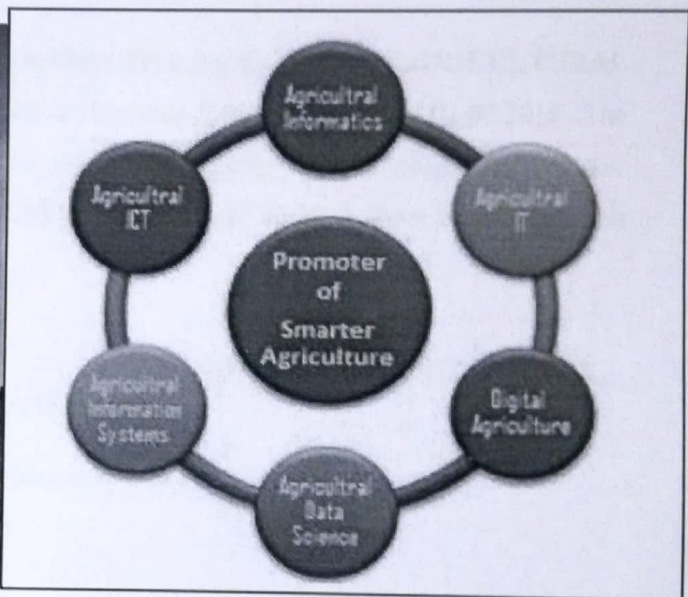
# PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF AGRICULTURE ENGINEERING

## Training Course

### AGRICULTURAL INFORMATICS



Date: 27.06.2016 to 01.07.2016

#### COURSE INCHARGE

1. P.Karthickeyan, HOD/AGRI
2. T.Niranjanaa devi, AP/AGRI



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**DEPARTMENT OF AGRICULTURE ENGINEERING**

**DATE: 20.6.2016**

**CIRCULAR**

It is planned to conduct **Five Days Training Course** on "**AGRICULTURAL INFORMATICS**" for Third semester students from 27.6.2016 to 01.07.2016 .The interested students are asked to enroll their name to the course coordinator **P.KARTHICKEYAN, HOD/AGRI** on or before 27.06.2016 (Spot registration can also be permitted).

Course Co-coordinators: 1.P.Karthickeyan, HOD/AGRI

2. T.Niranjanaa Devi, AP/AGRI

*P. Karthickeyan*  
*T. Niranjanaa Devi*

*P. Karthickeyan*  
HOD/AGRI

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# PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

## DEPARTMENT OF AGRICULTURE ENGINEERING

### Value added course Attendance sheet

Academic Year: 2016-2017

Date: 27.06.2016

Name of the course: AGRICULTURAL INFORMATICS

S.No	Reg. No	Name	27.06.2016	28.06.2016	29.06.2016	30.06.2016	01.07.2016
1	15102001	ABINAYASUNDARI.M	/	/	/	/	/
2	15102002	AJITH.R	/	/	/	/	/
3	15102003	AJITHKUMAR.N	/	/	/	/	/
4	15102004	AKSEENA KULSOOM.A	/	/	/	/	/
5	15102005	ARUN JOHNY	/	/	/	/	/
6	15102006	ARVINTH.G	/	/	/	/	/
7	15102007	ARVINTH.M	/	/	/	/	/
8	15102008	BANU REKHA.V	/	/	/	/	/
9	15102009	BENITTA MARAGATHAM.S	/	/	/	/	/
10	15102010	BHARANI PRIYA.R	a	/	/	/	/
11	15102011	BHUVANESWARI.G	/	/	/	/	/
12	15102012	BOOPALAN.S	/	/	/	/	/
13	15102013	CHIDHVILAS.M	/	/	/	/	/
14	15102014	CHINDHU.S	/	/	/	/	/
15	15102015	DEIVANI.G	/	/	/	/	/
16	15102016	DEVAKI.K	/	/	/	/	/
17	15102017	DEVIKA.M	/	/	/	/	/

18	15102018	DHAMODHARAN.S	/	/	/	/	/
19	15102019	DHIVAGAR.R	/	/	/	/	/
20	15102020	DHIVYA.G	/	/	/	/	/
21	15102021	DHIVYAPRIYA.D	/	/	/	/	/
22	15102023	GOKALA SELVA.K.P	/	/	/	/	/
23	15102024	GOPALAKKANNAN.K	a	/	/	/	/
24	15102025	HARIHARAN.M	/	/	/	/	/
25	15102026	HARIKRISHNA.R	/	/	/	/	/
26	15102027	HARIKRISHNAN.A	/	/	/	/	/
27	15102028	HEMALATHA.G	/	/	/	/	/
28	15102029	HEMALATHA.M	/	a	/	/	/
29	15102030	INBASAGAR.M	/	/	/	/	/
30	15102031	INDHUJA.D	a	a	a	a	a
31	15102032	JANANI.K	/	/	/	/	/
32	15102033	JAYASURYA.V	/	/	/	/	/
33	15102034	KABILAN.A.N.S	/	/	/	/	/
34	15102035	KAMALI.P	/	/	/	/	/
35	15102036	KARANKUMAR.R	/	/	/	/	/
36	15102037	KARTHICK.A	/	/	/	/	/
37	15102038	KARTHICK.H	/	/	/	/	/
38	15102039	KARTHICK.K	/	/	/	/	/
39	15102040	KARTHICK.R	/	/	/	/	/
40	15102041	KARTHICKEYA.U	/	/	/	/	/
41	15102042	KARTHIKA.T	/	/	/	/	/
42	15102043	KEERTHANA.C	/	/	/	/	/



43	15102044	KEERTHIGA.M	/	/	/	/	/
44	15102048	KRUTHIGA.S	/	/	/	/	/
45	15102045	KOKILA DEVI.L	/	/	/	/	/
46	15102047	KRITHIKA.S	/	/	/	/	/
47	15102049	MAHESHKUMAR.R	a	/	/	/	/
48	15102050	MALA.C	/	/	/	/	/
49	15102051	MANIRAJ.A	/	/	/	/	/
50	15102052	MANIVELAVAN.P	/	/	/	/	/
51	15102053	MYTHRAYE.A	/	/	/	/	/
52	15102054	NAGARJUN.K	/	/	/	/	/
53	15102055	NANDHA KUMAR.S	/	/	/	/	/
54	15102056	NANDHINI.M	a	/	/	/	/
55	15102046	KRISHNAN.G	/	/	/	a	/
56	15102057	NANDHINI.T	/	/	/	/	/
57	15102058	NAVEEN BHARATHI.R	/	/	/	/	/
58	15102059	NAVEENADEVI.S	/	/	/	/	/
59	15102060	NIVETHA.R	/	/	/	/	/
60	15102061	OVIYA.R	/	/	/	/	/
61	15102062	PONMATHI.K	/	/	/	/	/
62	15102063	PRATHAP.M	/	/	/	/	/
63	15102064	PRAVEENKUMAR.S	/	/	/	/	/
64	15102065	PREETHA.S	/	/	/	/	/
65	15102066	PREETHI.S	/	/	/	/	/
66	15102067	PREM KUMAR.M	/	/	/	/	/
67	15102068	PREMA.S	a	/	/	/	/



68	15102069	PRIYADHARSINI.A	/	/	/	/	/
69	15102070	PRIYANGA.R	/	/	/	/	/
70	15102071	PRIYATHARSHINI.N	/	/	/	/	/
71	15102072	RAGULKANNAN.M	/	/	/	a	/
72	15102073	RAHINI.N	/	/	/	/	/
73	15102074	RAJA.S	/	/	/	/	/
74	15102075	RAMESH.A	/	/	/	/	/
75	15102076	SADAAM HUSSAIN.M	/	/	/	/	/
76	15102077	SAKTHIPRIYA.S.S	/	/	/	/	/
77	15102078	SANMATHI.S	a	/	/	/	/
78	15102079	SANTHOSH.T	/	/	/	/	/
79	15102080	SARANYA.S	/	/	/	/	/
80	15102081	SARANYA.T	/	/	/	/	/
81	15102082	SASIKUMAR.S	/	/	/	/	/
82	15102083	SASTHA PRATHISTAVATHY.M	/	/	/	a	/
83	15102084	SATHISH.S	/	/	/	/	/
84	15102085	SEETHARAMAN.C	/	/	/	/	/
85	15102086	SELVAKUMAR.J	/	/	/	/	/
86	15102087	SHAJIN.M	/	/	/	/	/
87	15102088	SHANMATHI.P.M	/	/	/	/	/
88	15102089	SHILPAKALA.V	/	/	/	/	/
89	15102090	SHYLENDRA.M	/	/	/	/	/
90	15102091	SIMRAN.S	/	/	/	/	/
91	15102092	SIVAPRAKASH.R	/	/	/	/	/
92	15102093	SIVAPRIYA.S	/	/	/	/	/

93	15102094	SIVARAJ.R	/	/	/	/	/
94	15102095	SIVARAMAN.S	/	/	/	/	/
95	15102096	SIVARANJANI.P	/	/	/	/	/
96	15102097	SUBASH.A	/	/	/	/	/
97	15102098	SUDHA.M	/	/	/	/	/
98	15102099	SUMAN.L	a	/	/	/	/
99	15102100	SWATHYPRIYA.G	/	/	/	/	/
100	15102101	TAMILSELVAN.R	/	/	/	/	/
101	15102102	THIRUPPATHI.U	/	/	/	/	/
102	15102103	VAIDISHWARI.K	/	/	/	/	/
103	15102104	VAIRAMUTHU.M	/	/	/	/	/
104	15102105	VAIRAMUTHU.K	/	/	/	/	/
105	15102106	VAISHNAVI.T	/	/	a	/	/
106	15102107	VANITHA.T	/	/	/	/	/
107	15102108	VENKATESAN.T	/	/	/	/	/
108	15102109	VENKATESH.K	/	/	/	/	/
109	15102110	VETRIVEL.M	/	/	/	/	/
110	15102111	VIGNESH.P	/	/	/	/	/
111	15102112	VIMAL KANTH.K	a	/	/	/	/

Course Coordinator

P. Karthikya  
J. Nivetha



# PAAVAI ENGINEERING COLLEGE

(Autonomous)

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

## Department of Agriculture Engineering

### CERTIFICATE

This is to certify

**Divyapriya .D**

of Paavai Engineering College, studying in Second Year has successfully completed  
the Agricultural Informatics course from 27/06/2016 to 01/07/2016.

S. Neehin

Course Coordinator

P. Karthikeyan

HOD

P. Karthikeyan

Principal



**COURSE OBJECTIVES**

To enable the students to

- gain knowledge on integrated waste management
- understand the concepts of implementing waste management for a city
- gain knowledge on reuse of waste electronic materials

**Module I**

Introduction to Solid Waste Management Municipal Solid Waste Characteristics and Quantities MSW Rules 2016, Swachh Bharat Mission and Smart Cities Program Municipal Solid Waste Collection, Transportation, Segregation and Processing Disposal of Municipal Solid Waste Biochemical Processes and Composting Energy Recovery from Municipal Solid Waste

**Module II**

Current Issues in Solid Waste Management and Review of MSW Management Status in First List of 20 Smart Cities in the Country Construction and Demolition (C&D) Waste Management - Overview C&D Waste – Regulation

**Module III**

Beneficial Reuse of C&D Waste Materials Electronic Waste (E-Waste) Management – Issues and Status in India and Globally E-Waste Management Rules 2016 and Management Challenges

**TOTAL PERIODS 30**

**COURSE OUTCOMES**

At the end this course, students will be able to

- apply gained knowledge on integrated waste management
- implement the concepts of waste management for a city
- implement reuse ideas of waste electronic materials in construction

**TEXT BOOKS**

1. Sustainable Environment: A Text Book for Environmentalist, Researchers, Academia, Ecologists, Waste-preneurs, Entrepreneurs by Shailesh Jha and Preeti Jha , 2015

**REFERENCES**

1. Integrated Solid Waste Mgmt by Tchobanoglous , McGraw Hill Education, 2014



PAAVAI ENGINEERING COLLEGE, NAMAKKAL – 637 018  
(AUTONOMOUS)

DEPARTMENT OF CIVIL ENGINEERING

**COURSE NAME :**

✚ INTEGRATED WASTE MANAGEMENT FOR A SMART CITY.



- ✚ This course has emphasizes on Integrated Solid Waste Management aspects within the broad subject area of Integrated Waste Management for a Smart City.
- ✚ Sustainable management of solid wastes covering all sources and all aspects, covering generation, segregation, transfer, sorting, treatment, recovery and disposal in an integrated manner, with an emphasis on maximizing resource use efficiency will be covered in this course.

**Date of conduction:** 26.11.2017 to 30.11.2017

**Course Incharge:**

✚ Mr. A.Jayapal, AP/Civil





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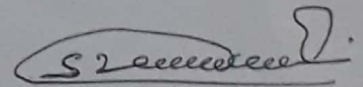
DATE: 01.11.2017

**CIRCULAR**

It is planned to conduct Five Days Value added Course on "Integrated Waste Management for a Smart city" for Fourth semester students from 26.11.2017 to 30.11.2018 .The interested students are asked to enroll their name to the course coordinator Mr.A.Jayapal, AP/Civil on or before 20.11.2017.(Spot registration can also be permitted).

Course Co-ordinator:

Mr.A.Jayapal , AP/Civil *A. Jay*

  
HOD/CIVIL

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# PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF CIVIL ENGINEERING

INTEGRATED WASTE MANAGEMENT FOR A SMART CITY

Value added course Attendance sheet

S.No	Student Name	26.11.2017	27.11.2017	28.11.2017	29.11.2017	30.11.2017
1.	ABDULKALAM.K	/	/	/	/	/
2	AHILAN.T	/	/	/	/	/
3	ALAGESAN.P	/	/	/	/	/
4	ALBISTER SAMSUANG RAI	/	/	/	/	/
5	ARUN.S	/	/	/	/	/
6	ARUNKUMAR.A	/	/	/	/	/
7	ARUNKUMAR.E	/	AB	AB	/	AB
8	BALACHANDAR.R	/	/	/	/	/
9	BALAKUMAR.P	/	/	/	/	/
10	BHARATHI.A	AB	/	AB	/	/
11	BOOPATHI.V	/	/	/	/	/
12	DHARMENDRA VIJAYA RAJ.G	/	/	/	/	/
13	DHIVAKARAN.S	/	AB	/	/	AB
14	DHIVYA PRABA.G	/	/	/	/	/
15	DINESHKUMAR.J.P	/	/	/	/	/
16	DIRZA PAULIN.H	/	/	/	/	/
17	GOWRISANKAR.M	AB	AB	/	/	/
18	JAGANATHAN.M	/	/	/	/	/
19	JAYASURIYA.K	/	/	/	/	/
20	KAMALAKANNAN.B	/	/	/	/	/
21	KUMARESAN.M	/	/	AB	AB	/

22	LOKESH.R	/	/	/	/	/
23	MAHAVISHNU.S	PB	/	PB	/	/
24	MANICKAM.C	/	/	/	/	/
25	MANIKANDAN.K	/	/	/	/	/
26	MANJUNATH.M	/	/	/	/	/
27	MOHAMED SALMAN.A	/	/	/	/	/
28	MOHAMMED FAIZAL.S	/	/	/	/	/
29	MOHAN.K	/	/	/	/	/
30	MURALITHARAN.A	/	/	/	/	/
31	MUTHUKUMAR.M	/	/	/	/	/
32	NADHIS KUMAR.D	/	/	/	/	/
33	NALARAJAN.N	/	/	/	/	/
34	NANDHAVARMAN.M	/	/	/	/	/
35	NANDHAKUMAR.R	/	/	/	/	/
36	NARAYANAN.R	/	/	/	/	/
37	NITHISH.N	/	/	/	/	/
38	NITHISHKUMAR.S	/	/	PB	/	PB
39	NIVETHITHA.S	/	/	/	/	/
40	V.ESKKAIMUTHU	/	/	/	/	/
41	P.JAYAPRASANTH	/	/	/	/	/
42	P.KARAN PRAKASH	/	/	PB	PB	/
43	A.M.PRAVEEN KUMAR	/	/	/	/	/
44	V.YUVARAJ	/	/	/	/	/
45	PARTHIBAN.P	/	/	/	/	/
46	PAZHANITHARAN.P.A	/	/	/	/	/
47	PRABANJANA.P	/	/	/	/	/
48	PRAVEEN KUMAR.A	/	/	/	/	/



49	PRAVEENKUMAR.K	/	/	/	/	/
50	PRAVEEN KUMAR.R	/	/	/	/	/
51	PRAVEEN SUNDAR.M.S	/	/	/	/	/
52	PREAM KUMAR.M	/	AB	AB	/	/
53	PRITHIV RAJ.T	/	/	/	/	/
54	PRIYA.K	/	/	/	/	/
55	PRIYADHARSINI.P	/	/	/	/	/
56	PUGALENTHI.J	/	/	/	/	/
57	RAJESH KUMAR.B	/	/	/	/	/
58	RAMKUMAR.R	/	/	/	/	/
59	RANJANI.S	/	/	/	/	/
60	RANJITH KUMAR.R	/	/	/	/	/
61	RANJITH.S	/	AB	AB	/	/
62	RUTH BENSHA.D	/	/	/	/	/
63	SANJAY RAM.S	/	/	/	/	/
64	SASIKALA.A	/	/	/	/	/
65	SATHEESHKUMAR.R	/	/	/	/	/
66	SATHISH.P	/	/	/	/	/
67	SATHIYARAJ.R	/	/	/	/	/
68	SHIEK MOHAMED.M	/	/	/	/	/
69	SIVA SURIYA.S	/	/	/	/	/
70	SIVA.A	/	/	/	/	/
71	SIVADHARSHAN.K	/	/	/	/	/
72	SRIRAM.S	/	/	/	/	/
73	SUDHARSAN.M	/	/	/	/	/
74	SUJA.G.L	/	/	/	/	/
75	SURESH KUMAR.R	/	/	/	/	/

76	SURYA PRAKASH.P.S	/	/	/	/	/
77	SURYA.S	/	/	/	/	/
78	SWATHI.P	/	/	/	/	/
79	TATASILVA.M	/	/	/	/	/
80	VELKUMAR.A	/	AB	/	/	/
81	VENKADESAN.N	/	/	/	/	/
82	VENKATRAMAN.R	/	/	/	/	/
83	VIGNESH KUMAR.S	/	/	/	/	/
84	VIGNESHWARAN.V	/	/	/	/	/
85	VIJAY.K	/	/	/	/	/
86	VIJAY.V	/	/	/	/	/
87	VISHWANATH.S.K	/	/	/	/	/
88	VIVEK.R	/	/	/	/	/
89	YOGESH.B	/	/	/	/	/
90	YUVA RAJA MANIKANDAN.S	/	/	/	/	/
91	SOUNTHARYA.V	/	/	/	/	/
92	SMITH R G	/	/	/	/	/
93	SANTHOSH V K	/	/	AB	AB	/
94	SRINATH R	/	/	AB	AB	/

Course Coordinator

A. Jay

[A. Jayapal  
AP/Chem]





## PAAVAI ENGINEERING COLLEGE

(Autonomous)

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

Department of Civil Engineering

### CERTIFICATE

This is to certify

**Dhivya Prabha .G**

of Paavai Engineering College, studying in Second Year has successfully completed the  
Integrated Waste Management for a Smart City course from 26/11/2017 to 30/11/2018.

Course Coordinator

HOD

Principal

### **COURSE OBJECTIVES**

To enable the students to

- Learn the basic principles of various wave-based NDT techniques

Wave-based NDT methods- ultrasonic inspection, acoustic emission, resonant frequency testing, and electromechanical impedance testing- long-range inspection; for example, in pipelines, Piezoelectric effect, basic principles of various wave-based NDT methods, and their associated data acquisition.

Applications on wave-based NDT techniques, ultrasonic testing, acoustic emission to inspect the structural integrity of civil engineering structures, including highways, bridges, dams, and buildings.

**TOTAL PERIODS 30**

### **COURSE OUTCOMES**

At the end this course, students will be able to

- Interpret the obtained data of wave-based NDT methods

### **TEXT BOOKS**

- Arbind Kumar Singh, Mechanics of Solids, Prentice-Hall of India

### **REFERENCES**

- Srinath S L, Advanced Mechanics of Solids, Tata McGraw Hill Education, New Delhi

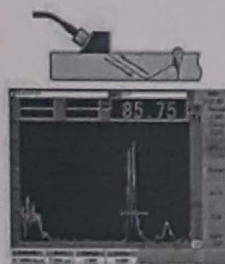
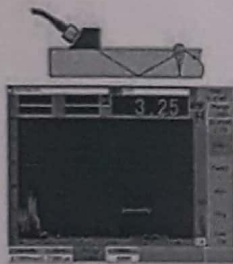


PAAVAI ENGINEERING COLLEGE, NAMAKKAL – 637 018  
(AUTONOMOUS)

DEPARTMENT OF STRUCTURAL ENGINEERING

## **COURSE NAME :**

✚ WAVE – BASED NDT METHODS



✚ Wave-based NDT methods allow for reliable and rapid evaluation of civil engineering infrastructure. These methods are particularly useful in long-range inspection, for example, in pipelines, where the wave-based NDT can provide data on hundreds of meters of piping in a matter of seconds.

Date of conduction: 06.01.2018 to 11.01.2018

Course Incharge:

✚ Mr. K.Vivek , AP/Civil





**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 STRUCTURAL ENGINEERING**

**DATE: 01.11.2018**

**CIRCULAR**

It is planned to conduct Five Days Value added Course on "Wave – Based NDT methods" for Fourth semester students from 06.01.2018 to 11.01.2018 .The interested students are asked to enroll their name to the course coordinator Mr.K.Vivek, AP/Civil on or before 20.11.2017.(Spot registration can also be permitted).

Course Co-ordinator:

Mr.K.Vivek , AP/Civil

**HOD/CIVIL**

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# PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF STRUCTURAL ENGINEERING

## WAVE- BASED NDT METHODS

### Value added course Attendance sheet

S:No	Student Name	06.01.2018	08.01.2018	09.01.2018	10.01.2018	11.01.2018
1.	CHANDIRAKUMAR. D	/	/	/	/	/
2	KAMAL .M	/	/	/	/	/
3	LALITHAMBIGAI. G	/	/	/	/	/
4	SABARI .M	/	/	/	/	/
5	SANTHOSH KUMAR. S	/	/	AB	AB	/
6	SARATHKUMAR .M	/	/	/	/	/
7	SASIKUMAR .S	/	/	AB	/	AB
8	SOUNDHARAJAN. J	/	/	/	/	/

Course Coordinator

K. Vivek , AP / civil - K. Vivek



# **PAAVAI ENGINEERING COLLEGE**

(Autonomous)

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

**Department of Civil Engineering**

## **CERTIFICATE**

This is to certify

**Sarathkumar .M**

of Paavai Engineering College, studying in Second Year (M.E., - SE) has successfully completed the Wave-based NDT Methods course from 06/01/2018 to 11/01/2018.

Course Coordinator

HOD

Principal



**COURSE OBJECTIVES**

To enable the students to

- To introduce the functional elements of Robotics
- To impart knowledge on the direct and inverse kinematics
- To introduce the manipulator differential motion and control

**UNIT I BASIC CONCEPTS** 9 Brief history-Types of Robot–Technology-Robot classifications and Specifications-Design and control issues- Various manipulators – Sensors -work cell – Programming languages.

**UNIT II DIRECT AND INVERSE KINEMATICS** 9 Mathematical representation of Robots - Position and orientation – Homogeneous transformation Various joints- Representation using the DenavitHattenberg parameters

**UNIT III MANIPULATOR DIFFERENTIAL MOTION AND STATICS** 9 Linear and angular velocities-

Manipulator Jacobian-Prismatic and rotary joints–Inverse -Wrist and arm singularity - Static analysis – Force and moment Balance.

**TOTAL PERIODS 30**

**COURSE OUTCOMES**

At the end this course, students will be able to


- Ability to understand basic concept of robotics.
- To analyze Instrumentation systems and their applications to various
- To know about the differential motion and statics in robotics

**TEXT BOOKS**

1.R.K.Mittal and I.J.Nagrath, Robotics and Control, Tata McGraw Hill, New Delhi,4th Reprint, 2005.

**REFERENCES**

1.Ashitava Ghoshal, Robotics-Fundamental Concepts and Analysis', Oxford University Press, Sixth impression, 2010



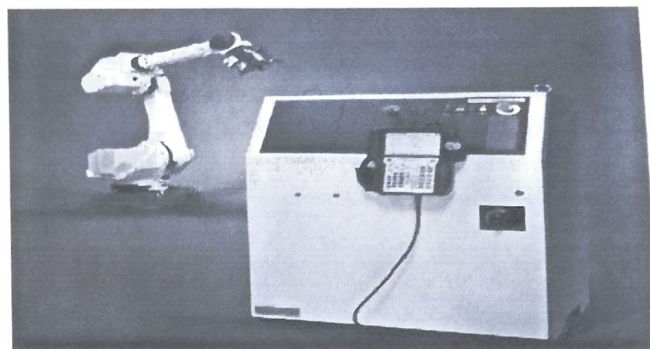
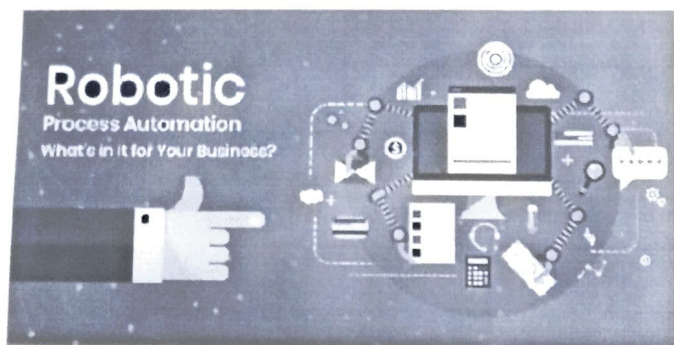
# PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## ROBOTICS Training Course

Robotics is an interdisciplinary sector of science and engineering dedicated to the design, construction and use of mechanical robots. Robotics is the intersection of science, engineering and technology that produces machines, called robots, that substitute for (or replicate) human actions. Pop culture has always been fascinated with robots. The goal of robotics is to design machines that can help and assist humans. Robotics integrates fields of mechanical engineering, electrical engineering, information engineering, mechatronics, electronics, bioengineering, computer engineering, control engineering, software engineering, among others.



The main aim is to give students an introduction to the field, historic background, development and current cutting edge research points, as well as a practical introduction how to move and control robots.

### INTENDED AUDIENCE

- III Year of B.E, B.Tech – Students
- Students able to apply a variety of techniques to solve problems in areas such as robot control and navigation

**Date: 18.6.2018 to 22.06.2018**

### COURSE INCHARGE

1. V. Mageshkumar AP/CSE



# **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 COMPUTER SCIENCE AND ENGINEERING**

**DATE:11.06.2018**

## **CIRCULAR**

It is planned to conduct Five Days Training Course on "ROBOTICS" for Fifthsemester students from 18.06.18 to 22.06.18. The interested students are asked to enroll their name to the course coordinator V. MAGESHKUMAR, AP/CSE on or before date. (Spot registration can also be permitted).

Course Co-coordinators: 1. V. Mageshkumar

2. P. Santhiya

  
HOD/CSE

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# PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## Value added course Attendance sheet

S.No	Register Number	Student Name	18.06.18	19.06.18	20.06.18	21.06.18	22.06.18
1	16104001	ADITYA PAREEK V	/	/	/	/	/
2	16104003	AKILA JETKIN.K	/	/	/	/	/
3	16104004	AMEER AMJA.J	ab	/	ab	/	/
4	16104005	ANAND.G	/	/	/	/	/
5	16104006	ANANDHA VARSHINI.K	/	/	/	/	/
6	16104007	ANKITHA SREEKUMAR	/	ab	ab	/	ab
7	16104008	ARAVIND.M	/	/	/	/	/
8	16104009	ARUL HARIHARAN.S	ab	ab	/	/	/
9	16104010	ARUNA.P	/	/	/	/	/
10	16104011	ARUNDHATHIVEL.K	/	/	ab	/	/
11	16104012	ARUNKUMAR.S	/	/	/	/	/
12	16104014	AVINANKUDI.M	/	ab	/	/	/
13	16104015	BALAKUMARAN.A	/	/	/	/	/
14	16104016	BHARATH KUMAR.M	/	/	/	/	/
15	16104019	DEEPIKA.M	/	/	ab	/	ab
16	16104023	DHAYALAN.A	ab	/	/	/	/
17	16104024	DHINA.S	/	/	/	/	/
18	16104025	DINESH KUMAR.A	/	/	/	/	ab
19	16104026	DINESH KUMAR.P	ab	/	/	ab	/
20	16104027	FAHIZ.K.P	/	/	/	/	/
21	16104029	GOBIPRASATH.N	ab	/	/	ab	/

22	16104030	GOMATHY.P	/	/	/	/	/
23	16104032	GOWRI SHANKAR.A.K	ab	/	/	/	/
24	16104033	GOWRI.A	/	/	ab	ab	/
25	16104034	GUGAN.S	/	/	/	/	/
26	16104035	HARI BALAJI.B	ab	/	ab	/	/
27	16104036	HARIHARAN.R	/	/	/	/	/
28	16104037	HARIHARAN.R	ab	/	ab	ab	/
29	16104038	HARINI.T	/	/	/	/	/
30	16104039	HARISH KUMAR.K	/	/	/	/	/
31	16104040	HAEMAVATHI.S.R	/	ab	/	/	/
32	16104042	JAYA PRASANTH.C	/	/	/	/	/
33	16104044	KARTHICK BALAJI.R	/	/	/	/	/
34	16104045	KARTHICK.R	/	/	ab	/	/
35	16104046	KARTHIKAA.B.R	/	/	/	/	/
36	16104047	KAVIYA.I	/	ab	/	ab	/
37	16104048	KIRUTHIGA.K	/	/	/	/	/
38	16104049	KIRUTHIKA.L	ab	/	ab	/	ab
39	16104050	KOWSALYA.V	/	/	/	/	/
40	16104052	LOGANAYAKI.C.S	ab	/	/	/	/
41	16104053	LOKESH VARMAN.I	/	/	ab	/	/
42	16104054	LOKESH.P	/	/	/	/	/
43	16104055	LOURDU XAVIER.S	/	ab	/	/	/
44	16104056	MADHAVAN.M	ab	/	/	/	/
45	16104057	MAHESHWARI.R.G	/	/	/	ab	/
46	16104058	MALAR JEYANTHI.M	/	/	/	/	/
47	16104060	MANJU ASWANTHI.S	/	/	/	/	/



48	16104061	MELWIN PAULSON	/	/	/	/	/
49	16104062	MOHAMED RASUL.M.S	ab	/	ab	/	/
50	16104063	MOHAMMED ASIF.M	/	/	/	/	/
51	16104064	MONIKA DEVI.S	/	ab	/	ab	/
52	16104065	MONISA.K	ab	/	/	/	/
53	16104066	MONISHA.J	/	/	ab	/	/
54	16104067	MURALIDHARAN.R	/	/	/	/	/
55	16104068	NIRANJAN RAAJ.N.S	/	/	/	/	/
56	16104069	NISHA NANDHINI.S	/	/	ab	/	/
57	16104070	NIVAS.A	ab	/	ab	/	/
58	16104071	POOJA.M	/	/	/	/	/
59	16104072	POOVIZHI.K	/	/	ab	/	ab
60	16104073	PRABU.V	ab	/	/	/	/
61	16104074	PRAKASH.M	/	/	/	/	/
62	16104075	PRAKASH PRABHU.M	/	/	ab	/	/
63	16104076	PRASATH.S	ab	/	ab	/	ab
64	16104079	PUNITHA.S	/	/	/	/	/
65	16104080	RAGAVI.R	/	/	/	/	/
66	16104081	RAGHAVI.R	ab	/	/	ab	/
67	16104082	RAJA.R	/	/	/	/	/
68	16104083	RAJESH.R	/	/	ab	/	/
69	16104084	RAJESWARI.P	/	ab	/	/	/
70	16104085	REKHA SHREE.S	/	/	/	/	/
71	16104086	ROSHINI.S	/	ab	/	/	ab
72	16104087	SABIN.E	/	/	/	/	/
73	16104088	SAKTHI VIGNESHWARAN.S	/	ab	/	/	/



74	16104090	SANJAY.S.K	/	/	/	/	/
75	16104092	SELLAVEL.A	/	/	/	/	/
76	16104094	SHARMILI.S	ab	/	/	/	/
77	16104095	SOUNDHARYA.K	/	/	ab	/	/
78	16104096	SOWMIYA.R	/	/	/	/	/
79	16104097	SOWNDHARYA.K	/	/	/	/	/
80	16104099	SRINIVAS.G	/	/	ab	/	/
81	16104100	SUNDAR RAJ.J	/	/	/	/	/
82	16104101	SURENDHAR.R	/	/	/	/	/
83	16104102	SURENDHIRAN.R	/	ab	/	/	/
84	16104103	SURIYA.T	/	/	/	/	/
85	16104104	VASU.M	/	/	/	/	/
86	16104105	VENKATESHWARAN.K	/	ab	/	ab	/
87	16104106	VIGNESH.M	ab	/	/	/	/
88	16104107	VIGNESH.M	/	/	/	/	/
89	16104108	VIGNESH.S	/	ab	/	/	/
90	16104109	VIGNESHWARAN.M	/	/	/	/	/
91	16104111	VIJAY.R	/	/	/	ab	/
92	16104113	VIMALKUMAR.K	/	/	/	/	/
93	16104114	VINCENT SAGAYARAJ.U	/	/	/	/	/

  
**Course Incharge**



## **PAAVAI ENGINEERING COLLEGE**

(Autonomous)

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

**Department of Computer Science and Engineering**

### **CERTIFICATE**

This is to certify

**Anand .G**

of Paavai Engineering College, studying in Third Year has successfully completed the  
Robotics course from 18/06/2018 to 22/06/2018.

Course Coordinator

HOD

Principal

**COURSE OBJECTIVE**

To enable the students to

- know the necessity of different measuring Meters and their basic principle
- understand the working principle of different measuring instruments and technical solutions to handle different errors.

**UNIT I BASIS STANDARDS OF METERS****15**

Unit & dimensions, standards, Errors, Characteristics of Instruments and measurement system, basics of statistical, analysis. PMMC instrument, DC ammeter, DC voltmeter, Ohm meter, Moving Iron instrument, Electrodynamic Wattmeter, errors and remedies, Three Phase Wattmeter, Power in three phase system, Energy meter.

**UNIT II MEASUREMENT OF PARAMETERS AND DIGITAL MEASUREMENT****15**

Different methods of measuring low, medium and high resistances, measurement of inductance & capacitance with the help of AC Bridges- Wheatstone, Kelvin, Maxwell, Hay's, Anderson, Owen, Campbell, Schering, Wien bridges, Wagner Earthing device, Q Meter. Concept of digital measurement, Digital voltmeter, Frequency meter, Power Analyzer, Electronic, and phase Multimeter. CRT, time base, dual trace oscilloscope, Measurement, of voltage, frequency by CRO, Sampling Oscilloscope, DSO and DSO applications.

**TOTAL PERIODS****30****COURSE OUTCOMES**

Upon completion of this course, the students would have

- learn units, dimensions, standards and errors and basics of different types of measuring instruments to measure different electrical quantities
- measure different electrical parameters using conventional bridges and acquire data through digital measuring instruments and interpret the data.

**TEXT BOOK & MANUALS**

1. W. Golding & F.C. Widdis, "Electrical Measurement & Measuring Instrument", A.W. Wheeler & Co. Pvt.Ltd. India.
2. K. Sawhney, "Electrical & Electronic Measurement & Instrument", Dhanpat Rai & Sons





## **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 ELECTRONICS AND COMMUNICATION ENGINEERING**

**DATE: 23.01.2017**

#### **CIRCULAR**

It is planned to conduct Five Days Training Course on "CONVERSION OF METERS" for Third semester students from 1.2.2017 to 7.2.2017. The interested students are asked to enroll their name to the course coordinator Mr.S.Kumarganesh ASP/ECE on or before 27.1.2017. (Spot registration can also be permitted).

Course Co-ordinators: Mr.S.Kumarganesh ASP/ECE

  
**HOD/ECE**

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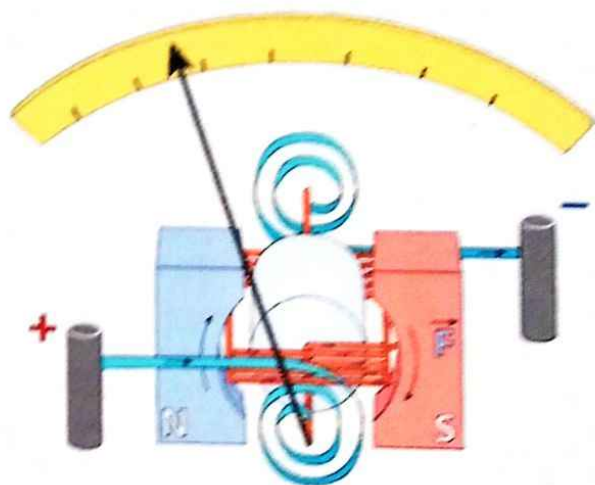
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**PAAVAI ENGINEERING COLLEGE**  
(AUTONOMOUS)  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

**Training Course**

**CONVERSION OF METERS**

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**Date: 1.2.2017 to 7.2.2017**

**COURSE INCHARGE**

1. Mr.S.Kumarganesh ASP/ECE

# PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### Value added course Attendance sheet

SNO	Reg.No	Student Name	1.2.2017	2.2.2017	3.2.2017	4.2.2017	6.2.2017	7.2.2017
1.	15105046	KAVIYARASU.C	/	/	/	/	/	/
2.	15105047	KEERTHANA.M	/	/	/	/	/	/
3.	15105048	KEERTHI.P	/	/	/	/	/	/
4.	15105049	KRISHNAPRIYA.K	/	/	/	/	/	/
5.	15105050	LOGESH.P	/	/	/	/	/	/
6.	15105051	LOGESHWARI.R	/	/	/	/	/	/
7.	15105052	MADHUSHALINI.A	/	/	/	/	/	/
8.	15105053	MADHUVANDHINI.E	/	/	/	/	/	/
9.	15105054	MANIVANNAN.M	/	/	/	/	/	/
10.	15105055	MEGALA.E.V	/	/	/	/	/	/
11.	15105056	MERCY.G	/	/	/	/	/	/
12.	15105058	MUKESH KUMAR. R	/	/	/	/	/	/
13.	15105060	MUTHULAKSHMI.S	/	/	/	/	/	/
14.	15105061	MYVIZHI.N	/	/	/	/	/	/
15.	15105062	NAGAMANI.A	/	/	/	/	/	/
16.	15105063	NAGAMANI.N	/	/	/	/	/	/
17.	15105066	NANDHINI PRIYA.M	/	/	/	/	/	/
18.	15105301	ANUSURYA.C	/	/	/	/	/	/
19.	15105308	SAKTHIVEL.A	/	/	/	/	/	/
20.	15105310	PURUSOTHAMAN.V	/	/	/	/	/	/
21.	15105064	NANDHTNI.N	/	/	/	/	/	/
22.	15105065	NANDHINI T	/	/	/	/	/	/
23.	15105068	NARMADHA.V	/	/	/	/	/	/
24.	15105069	NAVEEN.D	/	/	/	/	/	/
25.	15105070	NAVEEN.M	/	/	/	/	/	/
26.	15105071	NIRANJANA.D	/	/	/	/	/	/
27.	15105072	PANDIPRIYA@NIVETHA.M	/	/	/	/	/	/
28.	15105075	PRABHAVATHI. V	/	/	/	/	/	/
29.	15105076	PRAGATHI. V	/	/	/	/	/	/
30.	15105078	PRATHAP. R	/	/	/	/	/	/
31.	15105079	PRIYADHARSHINI. C	/	/	/	/	/	/
32.	15105080	PRIYADHARSHINI. K	/	/	/	/	/	/
33.	15105083	RAJALAKSHMI. E	/	/	/	/	/	/
34.	15105085	RENUGADEVI. R	/	/	/	/	/	/
35.	15105086	RISHIKESHAN. G	/	/	/	/	/	/
36.	15105088	SABARI. N	/	/	/	/	/	/
37.	15105089	SABARI. P	/	/	/	/	/	/



38	15105090	SAIRAJ. A	/	/	/	/	/	/
39	15105091	SAGEETHA. K	/	/	/	/	/	/
40	15105092	SANGEETHA. M	/	/	/	/	/	/
41	15105093	SARANYA. R	/	/	/	/	/	/
42	15105095	SATHIYAPRIYA. M	/	/	/	/	/	/
43	15105096	SATHYA. M	/	/	/	/	/	/
44	15105097	SHANKARI. R	/	/	/	/	/	/
45	15105098	SHANMUGAPRIYA. A	/	/	/	/	/	/
46	15105099	SHANMUGAPRIYA. T	/	/	/	/	/	/
47	15105100	SHOBANA. S	/	/	/	/	/	/
48	15105101	SHRIRAM. P.V	/	/	/	/	/	/
49	15105102	SOLOMON MATHEW. A	/	/	/	/	/	/
50	15105104	SREEDHAR. K.V	/	/	/	/	/	/
51	15105105	SRI MANIKANDAN. A	/	/	/	/	/	/
52	15105107	SUDHA. R	/	/	/	/	/	/
53	15105108	SUDHARSAN. D	/	/	/	/	/	/
54	15105109	SURESH. M.R	/	/	/	/	/	/
55	15105110	SUSHMITHA. V	/	/	/	/	/	/
56	15105111	SUSMITHA. R	/	/	/	/	/	/
57	15105112	SUVETHA. V	/	/	/	/	/	/
58	15105113	TAMIL VASAN. R	/	/	/	/	/	/
59	15105115	TAMILSELVI. R	/	/	/	/	/	/
60	15105116	TAMIL SELVI. S	/	/	/	/	/	/
61	15105119	THULASIRAMANAN. S	/	/	/	/	/	/
62	15105120	VANITHASHREE. M	/	/	/	/	/	/
63	15105121	VASANTH. C	/	/	/	/	/	/
64	15105122	VIDHYA. S	/	/	/	/	/	/
65	15105123	VIGNESH. J	/	/	/	/	/	/
66	15105124	VIJAY. C	/	/	/	/	/	/
67	15105125	VIJAY. K	/	/	/	/	/	/
68	15105126	VIJAYALAKSHMI. K	/	/	/	/	/	/
69	15105127	VINOTH. V	/	/	/	/	/	/
70	15105128	VINOTHA PRIYA. S.K	/	/	/	/	/	/
71	16105136	SOWMIYA.M	/	/	/	/	/	/
72	16105137	SRI VIDHYA.R	/	/	/	/	/	/
73	16105138	SUBA SREE.J	/	/	/	/	/	/
74	16105139	SUBASH.R	/	/	/	/	/	/
75	16105140	SUGANESHWARI.N	/	/	/	/	/	/

  
Course coordinator

  
HOD



# **PAAVAI ENGINEERING COLLEGE**

(Autonomous)

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

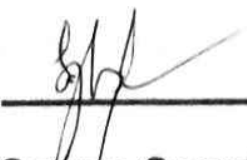
**Department of Electronics and Communication Engineering**


## **CERTIFICATE**


This is to certify

**Sudharsan .D**

of Paavai Engineering College, studying in **Second Year** has successfully completed  
the **Conversion of Meters** course from **1/02/2017 to 07/02/2017**.

  
\_\_\_\_\_  
Course Coordinator

  
\_\_\_\_\_  
HOD

  
\_\_\_\_\_  
Principal

**16COVC201/**

## **BASICS OF JOURNAL WRITING**

**16VLVC201/**

**(Common for M.E. communication Systems/VLSI**

**16AEVC201**

**Design, Applied Electronics)**

### **COURSE OBJECTIVE**

To enable the students to

- introduce basic concepts in Research
- provide an exposure to Data Collection and Analysis

### **Unit I Research Methodology**

**15**

Introduction to Research Methodology, Meaning and importance of Research – Types of Research – Selection and formulation of Research Problem -Research Design –Developing a Research Plan – Exploration, Description, -Diagnosis, Experimentation, -determining Experimental and Sample Designs. -Analysis of Literature Review –Primary and Secondary Sources, -Web sources –critical Literature Review Hypothesis – Different Types

### **Unit II Data Collection and Analysis**

**15**

Data Collection and Analysis- Sources of Data – Primary, Secondary and Tertiary – Types of Data – Categorical, nominal & Ordinal. - Methods of Collecting Data: Observation, field investigations, -Direct studies – Reports, Records or Experimental observations. -Sampling methods – Data Processing and Analysis strategies- Graphical representation – Descriptive Analysis – Inferential Analysis- Data Analysis using statistical package – Hypothesis – testing – Generalization and Interpretation – Modeling.

**TOTAL PERIODS 30**

### **COURSE OUTCOMES**

Upon completion of this course, the students would have

- understand the basic concepts in Research
- recognize the Data Collection and Analysis methods

### **TEXT BOOK & MANUALS**

1. Garg,B.L., Karadia, R., Agarwal,F. and Agarwal, U.K., 2002. An introduction to Research Methodology, RBSA Publishers.
2. Kothari, C.R.(2008). Research Methodology: Methods and Techniques. Second Edition. New Age International Publishers, New Delhi.
3. Sinha, S.C. and Dhiman, A.K., 2002. Research Methodology, Ess Ess Publications. 2 volumes.





# **PAAVAI ENGINEERING COLLEGE**

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**NAMAKKAL -637 018**

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Accredited by NBA, New Delhi and NAAC with "A" Grade

## **DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**DATE: 23.01.2017**

### **CIRCULAR**

It is planned to conduct Five Days Training Course on "BASICS OF JOURNAL WRITING" for PG students from 1.2.2017 to 7.2.2017 .The interested students are asked to enroll their name to the class coordinator Mrs.Ravishankar Kandasamy AP/ECE on or before 27.1.2017. (Spot registration can also be permitted).

Course Co-ordinators: Dr.R.Arangasamy, HOD/ECE

  
**HOD/ECE**

**Copy to:**

**Notice board**

# PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

M.E(Communication Systems, VLSI Design, Applied Electronics)

## *Training Course*

### *BASICS OF JOURNAL WRITING*



**Date: 1.2.2017 to 7.2.2017**

**COURSE INCHARGE**

1. Dr.R.Arangasamy, HOD/ECE

# PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## Value added course Attendance sheet

SNO	Reg.No	Student Name	1.2.2017	2.2.2017	3.2.2017	4.2.2017	6.2.2017	7.2.2017
<b>M.E Applied Electronics</b>								
1.	16301001	KIRUTHIKA V	/	/	/	/	/	/
<b>M.E VLSI Design</b>								
2.	16308001	SANGEETHA G	/	/	/	/	/	/
<b>M.E.Communication Systems</b>								
3.	16303001	ANITHA K	/	/	/	/	/	/
4.	16303002	INDHU S	/	/	/	/	/	/
5.	16303004	SANDHIYA K	/	/	/	/	/	/
6.	16303005	SANTHIYA M	/	/	/	/	/	/
7.	16303006	SATHYA K	/	/	/	/	/	/
8.	16303007	SINDHUYA V	/	/	/	/	/	/

  
Course coordinator

  
HOD





# PAAVAI ENGINEERING COLLEGE

(Autonomous)

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

**Department of Electronics and Communication Engineering**

## CERTIFICATE


This is to certify

**Sridhar .V**

of Paavai Engineering College, studying in Second Year (M.E., - VLSI) has successfully completed the Basics of Journal Writing course from 01/02/2017 to 07/02/2017.

  
\_\_\_\_\_  
Course Coordinator

  
\_\_\_\_\_  
HOD

  
\_\_\_\_\_  
Principal



# PAAVAI ENGINEERING COLLEGE

(Autonomous)

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


**Department of Electronics and Communication Engineering**

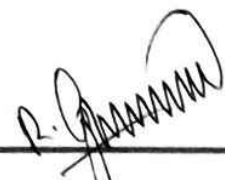
## CERTIFICATE


This is to certify

**Kiruthika .V**

of Paavai Engineering College, studying in First Year (M.E., - AE) has successfully completed the **Basics of Journal Writing** course from 01/02/2017 to 07/02/2017.

  
\_\_\_\_\_  
Course Coordinator

  
\_\_\_\_\_  
HOD

  
\_\_\_\_\_  
Principal

## **DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**18EEVC701**

**SCADA**

### **COURSE OBJECTIVES**

To enable the students to

- Understand the concept of SCADA
- Know the details of deploying SCADA systems
- Gain knowledge about security and vulnerability of SCADA systems

### **UNIT I SCADA OVERVIEW 10**

Field Data Interface Devices- Communications Network - Central Host Computer -Operator Workstations and Software Components -SCADA Architectures-Monolithic SCADA Systems - Distributed SCADA Systems -Networked SCADA Systems.

### **UNIT II DEPLOYING SCADA SYSTEMS 10**

Twisted-Pair Metallic Cable -Coaxial Metallic Cable-Fiber Optic Cable-Power Line Carrier –Satellites-Leased Telephone Lines-Very High Frequency Radio-Ultra High Frequency Radio-Point-to-Point-Multiple Address Radio Systems-Spread Spectrum Radio-Microwave Radio.

### **UNIT III SECURITY AND VULNERABILITY OF SCADA SYSTEMS 10**

Attacks Against SCADA System- Developing a SCADA Security Strategy-SCADA Standards Organizations -The Institute of Electrical and Electronics Engineers (IEEE) - American National Standards Institute-Electric Power Research Institute-International Electrotechnical Comm.

**TOTAL PERIODS 30**

### **COURSE OUTCOMES**

At the end this course, students will be able to

- Describe the concept of SCADA
- analyse the details of deploying SCADA systems
- explain about security and vulnerability of SCADA systems

### **REFERENCES**

1. PLC & SCADA SYSTEMS: Quick Reference Guide Kindle Edition by Francis G.L (Author)





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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**VALUE ADDED COURSE**

**FOR**

**ADDITIONAL SKILL DEVELOPMENT OF THE STUDENTS**

**B.E.-EEE**

**SCADA**

**Course Duration:18.06.2018-22.06-2018**

**Venue: PEC-Temple Tower -T211**

**Course Coordinator: S.Thinesh AP/EEE**

## **DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**18PPSVC301**

### **ADVANCED GRAPH THEORY**

#### **COURSE OBJECTIVES**

To enable the students to

- familiarize the students in the field of distance in graphs and its applications.
- introduce types of digraphs and various matrix representations.
- expose the students to flows in networks.

#### **UNIT I          DISTANCE IN GRAPHS**

**10**

The center of a graph - Distant vertices - Locating Numbers - Detour and Directed distance - Channel assignment

#### **UNIT II          DIRECTED GRAPHS**

**10**

Types of digraphs - Digraphs and binary relations - Directed paths and connectivity - Euler digraphs - Trees with directed edges - Fundamental circuits in digraphs - Matrices A, B and C of Digraph - Adjacency matrix of a Digraph.

#### **UNIT III          NETWORK FLOWS**

**10**

Cut sets - Some properties of a cut set - All cut sets in a graph - Fundamental circuits and cuts sets - Connectivity and separability Network flows - 1-Isomorphism - 2-Isomorphism.

**TOTAL PERIODS    30**

#### **COURSE OUTCOMES**

At the end this course, students will be able to

- Familiar with the concept of distance in graphs and its applications.
- Acquire the knowledge of types of digraphs and the matrix representations.
- Acquire the concept of Domination in graphs and applications.

#### **TEXT BOOKS**

1. Gary Chartrand, Ping Zhang, "Introduction to Graph Theory", Tata McGraw-Hill Publishing company Limited, New Delhi, 2017.

#### **REFERENCES**

1. Narsingh Deo "Graph Theory with Applications to Engineering and Computer Science", Prentice-Hall of India Private Limited, New Delhi, 2016.



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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**VALUE ADDED COURSE**

**FOR**

**ADDITIONAL SKILL DEVELOPMENT OF THE STUDENTS**

*M.E.-Power Systems Engineering*

# **ADVANCED GRAPH THEORY**

**Course Duration:18.06.2018-22.06-2018**

**Venue: PEC-Temple Tower -T208**

**Course Coordinator: Dr. M.Ravichandrababu Prof/EEE**



## **DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**18PPEVC301**

### **ENVIRONMENTAL IMPACT ASSESSMENT**

#### **COURSE OBJECTIVES**

To enable the students to

- provide the indepth knowledge on Environment and Its impact on the surroundings when a major project is being carried out in a location.
- provide the basic knowledge on Environmental impact assessment (EIA) and its legal requirements
- know the implications of EIA in maintaining the global environmental management plan

#### **UNIT I**

##### **INTRODUCTION**

**10**

Environmental Impact Assessment (EIA) - Environmental Impact Statement (EIS) - Environmental Risk Assessment (ERA) - Legal and Regulatory aspects in India – Types and limitations of EIA - Terms of Reference in EIA- Issues in EIA- national – cross sectoral - social and cultural.

#### **UNIT II**

##### **ENVIRONMENTAL ANALYSIS AND ASSESSMENT TECHNIQUES**

**10**

Components - screening - setting - analysis - prediction of impacts - mitigation. Matrices - Networks - Checklists. Importance assessment techniques - cost benefit analysis - analysis of alternatives - methods for Prediction and assessment of impacts - air - water - soil - noise - biological - cultural - social - economic environments. Standards and guidelines for evaluation.

#### **UNIT III**

##### **ENVIRONMENTAL IMPACT ASSESSMENT EVALUATION**

**10**

Trends in EIA practice and evaluation criteria - capacity building for quality assurance. Expert System in EIA - use of regulations and AQM.

**TOTAL PERIODS 30**

#### **COURSE OUTCOMES**

At the end this course, students will be able to

- explain the basic things about Environmental Impact assessment and its relevance to the Legal and regulatory aspects.
- describe about the EIA and various assessment techniques and standard involved in decision making process.
- apply and practice the EIA management system. with the proper guideline and evaluation criteria

#### **TEXT BOOKS**

1. Petts, J., "Handbook of Environmental Impact Assessment", Vol. I and II, Blackwell Science, London, 1999.

#### **REFERENCES**

1. The World Bank Group, "Environmental Assessment Sourcebook", Vol. I, II and III, the World Bank, Washington, 1998.



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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**VALUE ADDED COURSE**

**FOR**

**ADDITIONAL SKILL DEVELOPMENT OF THE STUDENTS**

*M.E.-Power Electronics and Drives*

# ***ENVIRONMENTAL IMPACT ASSESSMENT***

**Course Duration:18.06.2018-22.06-2018**

**Venue: PEC-Temple Tower -T207**

**Course Coordinator: Dr.G.Saravanakumar Prof/EEE**



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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**DATE:06.06.2018**

**CIRCULAR**

This is to inform that the value-added courses for the academic year 2018-2019 (Odd Semester) is planned to conduct during 18-06-2018 to 22-06-2018 for the UG & PG students of department of EEE. The interested students are asked to enroll their names to the course coordinator on or before 11.6.2018.

S.No	Year/Sem	Course Code	Course Title	Course Coordinaator
1	II/III	18EEVC301	Automotive Electronics	V.Vijiyal
2	III/V	18EEVC501	Introduction to MATLAB	M.NancyJeniffer
3	IV/VII	18EEVC701	SCADA	S.Thinesh
4	II/III	18PPSVC301	Advanced Graph Theory	Dr. M.Ravichandrababu
5	II/III	18PPEVC301	Environmental Impact Assessment	Dr.G.Saravanakumar

  
**HoD/EEE**

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Department file  
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## **DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

### **Attendance Sheet**

**Name of the Course :18EEVC701-SCADA**

**Name of the Programme:B.E.-EEE**

**Year/Sem:IV/VII**

**Duration: 18.06.2018-22.06.2018**

			18/6	19/6	20/6	21/6	22/6
1	15106001	AMBIGA.G	Amb	Amb	Amb	Amb	Amb
2	15106002	AMJATHALI.ME	Amj	Amj	Amj	Amj	Amj
3	15106003	ANANDHI.S	Ana	Ana	Ana	Ana	Ana
4	15106004	ARAVINDH.A.K	Arav	Arav	Arav	Arav	Arav
5	15106006	ASHOKRAJA.A	Ash	Ash	Ash	Ash	Ash
6	15106008	BALASUBRAMANIYAN.S	Bala	Bala	Bala	Bala	Bala
7	15106009	BARGAV.S	Barg	Barg	Barg	Barg	Barg
8	15106010	DHEENATHAYALAN.E	Dhe	Dhe	Dhe	Dhe	Dhe
9	15106011	DHINAKARAN.J	Dhi	Dhi	Dhi	Dhi	Dhi
10	15106012	DINESH KUMAR.S	Din	Din	Din	Din	Din
11	15106013	DOLPHIN RAJ.K.R	Dol	Dol	Dol	Dol	Dol
12	15106014	ESAIVANI.S	Esa	Esa	Esa	Esa	Esa
13	15106015	ESAKKIVEL.S	Esa	Esa	Esa	Esa	Esa
14	15106016	GANDHIMATHI.A	Gan	Gan	Gan	Gan	Gan
15	15106018	GOKULRAJ.M.N	Gok	Gok	Gok	Gok	Gok
16	15106020	GOPINATH.P	Gop	Gop	Gop	Gop	Gop
17	15106021	GOPINATHAN.B	Gop	Gop	Gop	Gop	Gop
18	15106023	GOWTHAM.K	Gow	Gow	Gow	Gow	Gow
19	15106025	GURUSHANTH.A.K.	Gur	Gur	Gur	Gur	Gur
20	15106026	HARI PRASANTH.S	Hari	Hari	Hari	Hari	Hari
21	15106028	HEMALATHA.M	Hem	Hem	Hem	Hem	Hem
22	15106029	JAYANTHI.S	Jay	Jay	Jay	Jay	Jay

23	15106030	JAYAPRAKASH.A	Jal Jal Jal Jal Jal
24	15106032	KARTHI.G	Kul Kul Kul Kul Kul
25	15106033	KARTHICK.M	Jel Jel Jel Jel Jel
26	15106034	KARTHIKA.A	Q Q Q Q Q
27	15106035	KARTHIKEYAN.S	Sst Sst Sst Sst Sst
28	15106036	KARTHIK RAJ.M	Krg Krg Krg Krg Krg
29	15106038	KIRUTHIKA.R	Krl Krl Krl Krl Krl
30	15106039	LALITHA.T.R	Lal Lal Lal Lal Lal
31	15106040	LATHA.G	Latha Latha Latha Latha Latha
32	15106041	LAVANYA.M	Lavanya Lavanya Lavanya Lavanya Lavanya
33	15106042	LOGANATHAN.K	Logith Logith Logith Logith Logith
34	15106045	MOHANKUMAR.T	Mohan Mohan Mohan Mohan Mohan
35	15106046	MOHANRAJ.D	Mo Mo Mo Mo Mo
36	15106047	MOHANRAJU.S.K	S.K.M S.K.M S.K.M S.K.M S.K.M
37	15106049	MONISHA.S	moni moni moni moni moni
38	15106050	MUBEENA BEGAM.S.A	S.A.M S.A.M S.A.M S.A.M S.A.M
39	15106051	NANDHINI.R	Nij Nij Nij Nij Nij
40	15106052	NARESH.R	Nare Nare Nare Nare Nare
41	15106053	NAVEEN KUMAR.V	Nk Nk Nk Nk Nk
42	15106054	NIRMAL RAJ.A	Am Am Am Am Am
43	15106055	NITHYA K (s)	SN SN SN SN SN
44	15106058	POOVIZHI.C	Poa Paa Paa Paa Paa
45	15106059	PRABHU.S	Pa Pa Pa Pa Pa
46	15106061	PRADEEPA.J	Pra Pra Pra Pra Pra
47	15106064	PRIYA.B	Priy Priy Priy Priy Priy
48	15106065	PRIYADHARSINI.P	Priy Priy Priy Priy Priy
49	15106066	PUNITHAVALLI.S	Pu Pu Pu Pu Pu
50	15106068	RAGHURAMAN.R (s)	Ru Ru Ru Ru Ru

  
Course Coordinator

  
HoD/EEE



## **PAAVAI ENGINEERING COLLEGE**

(Autonomous)

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

**Department of Electrical and Electronics Engineering**

### **CERTIFICATE**

This is to certify

**Anandhi .S**

of Paavai Engineering College, studying in Final Year has successfully completed the  
SCADA course from 18/06/2018 to 22/06/2018.

Course Coordinator

HOD

Principal



**PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)**

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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**Attendance Sheet**

**Name of the Course :18PPEVC301-ENVIRONMENTAL IMPACTASSESSMENT**

**Name of the Programme:M.E.PED**

**Year/Sem:II/III**

**Duration: 18.06.2018-22.06.2018**

			18/6	19/6	20/6	21/6	22/6
1	17305001	S.Chandraleka	Chand	Chand	Chand	Chand	Chand
2	17305002	M.Karthikeyan	Karthi	Karthi	Karthi	Karthi	Karthi
3	17305003	N.Prasidha Devi	Pradi	Pradi	Pradi	Pradi	Pradi

  
**Course Coordinator**

  
**HoD/EEE**





## **PAAVAI ENGINEERING COLLEGE**

(Autonomous)

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

**Department of Electrical and Electronics Engineering**

### **CERTIFICATE**

This is to certify

**Prasidha Devi .N**

of Paavai Engineering College, studying in **Second Year** has successfully completed  
the **Environmental Impact Assessment** course from **18/06/2018** to **22/06/2018**.

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 ELECTRICAL AND ELECTRONICS ENGINEERING**

**Attendance Sheet**

**Name of the Course :18PPSVC301-ADVANCED GRAPH THEORY**

**Name of the Programme:M.E.PSE**

**Year/Sem:II/III**

**Duration: 18.06.2018-22.06.2018**

			18/6	19/6	20/6	21/6	22/6
1	17306001	Chandrabose.M					
2	17306002	Karthic.T					
3	17306003	N.Thilaga					

**Course Coordinator**

**HoD/EEE**



# **PAAVAI ENGINEERING COLLEGE**

(Autonomous)

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

**Department of Electrical and Electronics Engineering**

## **CERTIFICATE**

This is to certify

**Chandrabose .M**

of Paavai Engineering College, studying in Second Year (M.E., - PSE ) has successfully completed the Advanced Graph Theory course from 18/06/2018 to 22/06/2018.

Course Coordinator

HOD

Principal

## **17MEVC02 INSPECTION TECHNIQUE FOR WELDING**

### **COURSE OBJECTIVES**

To enable the students to

- describe importance of welding inspection
- prepare test plan for given welded job as per ASME / AWS
- describe mechanical testing of weldments as per ASTM / ASME

#### **1. Basics of Welding Inspection and Testing**

Scope, Definition, Application Basic Testing Symbols Illustration of Welding & Testing Symbols. Ethical and essential requirements for the Welding Inspector. Welding Inspection Operation. Quality Assurance for WI&T. Welding Metallurgy related to WI&T.

#### **2. Weld and Weld Related Discontinuities**

Classification of welding related Discontinuities Dimensional Discontinuities -Distortion-Overlap -Desirable, acceptable and unacceptable fillet weld profiles.-Acceptable and unacceptable Butt weld profiles.

#### **3. Weldment & related discontinuities**

Standard versus special equipment-material of construction for process equipments, selection criteria, and specification sheets.

#### **4. Mechanical and chemical weld metal properties**

Filler metal properties-Base metal properties-Edge laminations -Lamellar Tearing -Arc Strikes

#### **5. Welding Procedure Specification (WPS & PQR)**

Description ,Application important details, Example of Qualification WPS, Preparation of sample joints, Testing of representative samples, Evaluation of overall preparation, welding testing & end results

**TOTAL PERIODS 30**

### **COURSE OUTCOMES**

At the end this course, students will be able to

- Identify the need of plant design for an industry.
- Apply the concepts for making plant designing for an industry.
- Represent the designing structure of the plant.

### **TEXT BOOKS**

1. Welding Inspection, AWS Committee, American Welding Society



## **REFERENCES**

1. Welding Technology, O.P.Khanna, Dhanpatrai publication



# PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MECHANICAL ENGINEERING

17MEVC501-INSPECTION TECHNIQUES FOR WELDING

## ABOUT THE COURSE:

The inspection of welds can be conducted for a number of reasons. Perhaps the most fundamental reason is to determine whether the weld is of suitable quality for its intended application. In order to evaluate a weld's quality, we must first have some form of measuring block with which to compare its characteristics. It is impractical to attempt to evaluate a weld's quality without some form of specified acceptance criteria.



## INTENDED AUDIENCE:

- II-, III- and IV-year students those wants to know the basics of inspection techniques for welding.
- Those wants to improve their knowledge on welding inspection.

- Those wants to know the various operating techniques for inspection methods.

## DURATION OF THE COURSE:

Period: 26.06.2017 to 30.06.2017

Total hours: 30 Hours (6 Hours /day)

## COURSE OUTCOMES:

**At the end of this course students can be able to**

1. Function safely in a welding shop environment.
2. Operate oxyacetylene portable and track cutting systems in accordance with industry standards.
3. Apply knowledge of puddle control and bead placement to produce fillet welds in all positions.
4. Use an understanding of welding codes and industry standards in order to weld common joint configurations.

## COURSE CO-ORDINATOR:

Mr.K.Anand, Mr.T.Thangavel,  
Mr.S.A.Venkatesh, Mr.C.Suresh Ap/Mech - PEC

## VENUE:

Seminar Hall,  
Paavai Engineering College

**Note: Interested students enroll their name to the course in charge on or before 20.06.2017.**



# PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MECHANICAL ENGINEERING

Date: 15.06.2017

## CIRCULAR

In our department it is planned to conduct the course on “17MEVC501-INSPECTION TECHNIQUES FOR WELDING” for our students from 26.06.2017 to 30.06.2017. The students who are interested to improve their knowledge in welding inspection technique and its process can register their name to the course co-ordinator “**Mr.K.ANAND, AP/MECH**” on or before 20.06.2017.



### **COURSE CO-ORDINATOR:**

Mr.K.Anand, Mr.T.Thangavel,  
Mr.S.A.Venkatesh, Mr.C.Suresh Ap/Mech - PEC



**Head of the Department**

**Department of Mechanical Engineering**

### **Copy to:**

1. All Class rooms.
2. Department Notice board





# PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MECHANICAL ENGINEERING

Date: 26.06.2017

## ATTENDANCE SHEET

Academic Year: 2017 -2018

Name of the course: **17MEVC501-INSPECTION TECHNIQUES FOR WELDING**

Sl.No	Register Number	Name of the student	26.06.17	27.06.17	28.06.17	29.06.17	30.06.17
1.	15107001	J. AHAMED SHERIF	/	/	/	/	/
2.	15107002	A.AJITH RAHMAN	/	/	AB	/	/
3.	15107005	N. AJITH KUMAR	/	/	/	/	/
4.	15107006	J. AJITH	/	/	/	/	/
5.	15107007	M. AJITH	/	/	/	/	/
6.	15107008	R. AJITH	/	AB	/	/	/
7.	15107009	K. AKASH	/	/	/	/	/
8.	15107010	S. AKASH	/	/	/	/	/
9.	15107011	G. ALAGU PANDIYAN	AB	AB	AB	AB	/
10.	15107012	N. AMITHRAJ	/	/	/	/	/
11.	15107013	V. ANAND	/	/	/	/	/
12.	15107014	N. ANANTHA PRADEEP	/	/	/	/	/
13.	15107015	V. ANISHRAJ	/	/	/	/	/
14.	15107016	D. ANTO AJITH	/	/	/	/	/
15.	15107017	M. ARAVIND	/	/	/	AB	/
16.	15107018	S. ARIVAZHAGAN	/	/	/	/	/
17.	15107019	K. ARUN KUMAR	/	/	/	/	/
18.	15107020	P. ARUN KUMAR	/	/	/	/	/
19.	15107021	S. ARUN KUMAR	/	/	/	/	/
20.	15107022	V. ARUN KUMAR	/	/	AB	/	/
21.	15107023	M. ARUN	/	/	/	/	/
22.	15107024	B. ARUN KUMAR	/	/	/	/	/
23.	15107025	S.A. ARUN KUMAR	/	/	/	/	/
24.	15107026	P. S. ASHWANTH	/	/	/	/	/
25.	15107027	M.M. ASWIN	/	/	/	/	/



Sl.No	Register Number	Name of the student	26.06.17	27.06.17	28.06.17	29.06.17	30.06.17
26.	15107028	R. BALAJI	/	/	/	/	/
27.	15107029	S. BALAMURUGAN	/	/	/	/	/
28.	15107031	M. BASKARAN	/	/	/	/	/
29.	15107032	R. BHARATHKUMAR	/	/	AB	/	/
30.	15107034	S. DARSHAN	/	/	/	/	/
31.	15107035	G. DEEPAK	/	/	/	/	/
32.	15107036	J. DHAMODIRAN	/	/	/	/	/
33.	15107038	C. DINESHKUMAR	/	/	/	/	/
34.	15107039	P.T. DINESH KUMAR	/	/	/	/	/
35.	15107040	G. DINESH	AB	AB	AB	AB	/
36.	15107042	S. DINESH	/	/	/	/	/
37.	15107043	I. DIWAN RIYAS	/	/	/	/	/
38.	15107044	S. ELAYARAJA	/	/	/	/	/
39.	15107045	P. GOKUL	/	/	/	/	/
40.	15107046	D. GOKULAKRISHNAN	/	/	/	/	/
41.	15107047	R. GOKULAVANAN	/	/	/	/	/
42.	15107048	P.R. GOKULNATH	/	/	/	/	/
43.	15107049	A. GOPIANANDH	/	AB	/	/	/
44.	15107050	C. GOPINATH	/	/	/	/	/
45.	15107051	R. GOPINATH	/	/	/	/	/
46.	15107053	G. GOVINDARAJ	/	/	/	/	/
47.	15107054	G. GURUMOORTHY	/	/	/	/	/
48.	15107055	B. HARIHARAN	/	/	/	/	/
49.	15107301	ANANTHA PRAKASH.S	/	/	/	/	/
50.	15107304	BHUVANESHWARAN.R	/	/	/	/	/
51.	15107305	BOOPESH.S	/	/	/	/	/
52.	15107306	DELLISH KUMAR.N	/	/	/	/	/
53.	15107307	DINESH BABU.R	/	/	/	/	/
54.	15107313	JAICHANDAR.S	/	/	/	/	/
55.	15107315	JAYAPRAKASH.P	/	/	/	AB	/
56.	15107056	HARIHARAN M	/	/	/	/	/
57.	15107057	HARISH KUMAR M	/	/	/	/	/
58.	15107059	INDIRAN.M	/	/	/	/	/
59.	15107060	JAYAVISHNU.S	/	/	/	/	/

Sl.No	Register Number	Name of the student	26.06.17	27.06.17	28.06.17	29.06.17	30.06.17
60.	15107061	JEEVANANDAM.K	/	/	/	/	/
61.	15107063	JEEVITHA.J	/	/	/	/	/
62.	15107064	JENISH.J	/	/	/	/	/
63.	15107066	KARAN.S	/	/	/	/	/
64.	15107067	KARTHICK .T	/	/	/	/	/
65.	15107068	KARTHICK.A	/	/	AB	/	/
66.	15107070	KARTHICK.P	/	/	/	/	/
67.	15107071	KARTHICK.S	/	/	/	/	/
68.	15107072	KARTHIK RAJA.S	/	/	/	/	/
69.	15107073	KARTHIK.B	/	/	/	/	/
70.	15107074	KARTHIK.M	/	/	/	/	/
71.	15107075	KIRAN.T	/	/	/	/	/
72.	15107076	KISHORE BALA.K	/	/	/	/	/
73.	15107077	KISHORE.R	/	/	/	/	/
74.	15107079	KRISHNAKUMAR.R	/	/	/	/	/
75.	15107080	KUMAR.M	/	/	/	/	/
76.	15107081	KUMAR.S	/	/	/	/	/
77.	15107082	KUMARESAN.P	/	/	/	/	/
78.	15107084	LAKSHMANAN.P	/	/	/	/	/
79.	15107085	LOKESH KANNA.S	/	/	/	/	/
80.	15107086	MANGALASUNDARAM.K	/	/	/	/	/
81.	15107087	MANI SHANKAR.L	/	/	/	/	/
82.	15107089	MANIBHARATHI.T	/	/	/	/	/
83.	15107090	MANIKANDAN.G	/	/	/	/	/
84.	15107091	MANIKANDAN.P	/	/	/	/	/
85.	15107092	MANIKANDAN.R	/	/	/	/	/
86.	15107093	MANIKANDAN.T	/	/	/	/	/
87.	15107094	MANOJ KUMAR.A	AB	AB	AB	AB	/
88.	15107095	MANOJ KUMAR.M	/	/	/	/	/
89.	15107096	MANOJ KUMAR.R	/	/	/	/	/
90.	15107097	MATHI.T	/	/	/	/	/
91.	15107099	MOHAMMED RAFI.S	/	/	/	/	/
92.	15107100	MOHAMMED RIYAZ.N	/	/	/	/	/
93.	15107101	MOHAMMED RIYAZ.S	/	/	/	/	AB



Sl.No	Register Number	Name of the student	26.06.17	27.06.17	28.06.17	29.06.17	30.06.17
94.	15107102	MOHAMMEDTHARIK.H	/	/	/	/	/
95.	15107103	MOHAN KUMAR.S	/	/	/	/	/
96.	15107104	MOHAN RAM.R	/	/	/	/	/
97.	15107105	MOHAN.M	/	/	/	/	/
98.	15107106	MOHANRAJ.N	/	/	/	/	/
99.	15107108	MUNIRURRILA.M	/	AB	/	/	/
100.	15107109	MURUGAN.T	/	/	/	/	/
101.	15107110	MURUGANANDAN.C	/	/	/	/	/
102.	15107111	MUTHUSETHUPATHI.K	/	/	/	/	/
103.	15107112	NANDHEESWARAN .P	/	/	/	/	/
104.	15107114	NAVEEN M	AB	/	/	/	/
105.	15107115	NAVEEN S	/	/	/	/	/
106.	15107116	NAVEENKUMAR M	/	/	/	/	/
107.	15107308	DINESH S	/	/	/	/	/
108.	15107310	GUNASEKARAN.S	/	/	/	/	/
109.	15107311	HARIPRASATH.S	/	/	/	/	/
110.	15107312	HASSAN MOHAMED.H	/	/	/	/	/
111.	15107317	KARTHICK M	/	/	/	/	/
112.	15107320	MANOJKUMAR R	/	/	/	/	/
113.	15107322	MUSTAK ALIKHAN.F	/	/	/	/	/
114.	15107324	PARTHAPRASATH S	/	/	/	/	/
115.	15107327	PRADEEP S	/	/	/	/	/
116.	15107329	RAVI KUMAR.M	/	/	/	/	/
117.	15107118	NIJAMUDHIN ABDULLAH.M	/	/	/	/	/
118.	15107119	NIRMAL.S.K	/	/	/	/	/
119.	15107120	PARTHIPAN.S	/	/	/	/	/
120.	15107121	PASUPATHI.R	/	/	/	/	/
121.	15107122	PASUPATHI.T	/	/	/	/	/
122.	15107123	PERIYASAMY.S	/	/	/	/	/
123.	15107124	POOVARASAN.K	/	/	/	/	/
124.	15107125	POOVARASAN.P	/	/	/	/	/
125.	15107126	PRABAKAR.G	/	/	/	/	/
126.	15107128	PRADEEP KUMAR YADAV.S	/	/	/	/	/
127.	15107129	PRADEEP.A	AB	AB	AB		AB

Sl.No	Register Number	Name of the student	26.06.17	27.06.17	28.06.17	29.06.17	30.06.17
128.	15107130	PRADEEP.T	/	/	/	/	/
129.	15107131	PRADEESH.J	/	/	/	/	/
130.	15107132	PRAKASHRAJ.R	/	/	/	/	/
131.	15107133	PRASANNA.P	/	/	/	/	/
132.	15107134	PRAVEENKUMAR.P	/	/	/	/	/
133.	15107135	PREM KUMAR.G	/	/	/	/	/
134.	15107136	PREM.S	/	/	/	/	/
135.	15107138	PREMKUMAR.S	/	/	/	/	/
136.	15107139	PREMKUMAR.T	/	/	/	/	/
137.	15107142	PRITHIVI RAJAN.K	/	/	/	/	/
138.	15107143	RAGU RAM.K	/	/	/	/	/
139.	15107144	RAGU.K	/	/	/	/	/
140.	15107146	RAJA GANESH.T	AB	AB	AB	/	AB
141.	15107147	RAJESH.R	/	/	/	/	/
142.	15107148	RAJESHKUMAR.K	/	/	/	/	/
143.	15107149	RAMAN.P	/	/	/	/	/
144.	15107150	RAMANATHAN.S	/	/	/	/	/
145.	15107151	RAMKUMAR.M	/	/	/	/	/
146.	15107152	RANJITH KUMAR.K	/	/	/	/	/
147.	15107153	RANJITHKUMAR.M	/	/	/	/	/
148.	15107156	RAVI.M	/	/	/	/	/
149.	15107158	ROGAN.K	/	/	/	/	/
150.	15107159	SABARINATHAN.M	/	/	/	/	/
151.	15107161	SAKTHIVEL.C	/	/	/	/	/
152.	15107162	SAKTHIVEL.M	/	/	/	/	/
153.	15107163	SAMPATH KUMAR.M	/	/	AB	/	/
154.	15107164	SANJAY.K	/	/	/	/	/
155.	15107166	SANTHOSHKUMAR.S	/	/	/	/	/
156.	15107167	SANTHOSHRAJ.S	/	/	/	/	/
157.	15107168	SARATHKUMAR.S	/	/	/	/	/
158.	15107169	SARAVANAN.T	/	/	/	/	/
159.	15107170	SASIKUMAR.G	/	/	/	/	/
160.	15107171	SASIKUMAR.K	/	/	/	/	/
161.	15107172	SATHEESHKUMAR.S	/	/	/	/	/



Sl.No	Register Number	Name of the student	26.06.17	27.06.17	28.06.17	29.06.17	30.06.17
162.	15107316	KAJAMOHIDIN	/	/	/	/	/
163.	15107321	MOHANRAJ	/	/	/	/	/
164.	15107323	NAVEEN KUMAR.M	/	/	/	/	/
165.	15107325	PERIYASAMY.D	/	/	/	/	/
166.	15107326	POOVENTHIRAN	/	/	/	/	/
167.	15107328	RAJKUMAR.N	/	/	/	/	/
168.	15107330	SAHABUDEEN	/	AB	/	/	/
169.	15107333	SIKANDHAR BATCHA	/	/	/	/	/
170.	15107335	SURESHKUMAR.R	/	/	/	/	/
171.	15107058	HARISUDHA.S	/	/	/	/	/
172.	15107141	PRIPTHEKHA SREE.A.R	/	/	/	/	/
173.	15107175	SENTHAMIL.K	/	/	/	/	/
174.	15107176	SHAKTHIVEL.A	/	/	/	/	/
175.	15107177	SHALIKA BEGAM.S	/	/	/	/	/
176.	15107178	SIBIKUMAR.P	/	/	/	/	/
177.	15107179	SILAMBARASAN.M	/	/	/	/	/
178.	15107181	SIRANJIVI.V	/	/	/	/	/
179.	15107182	SIVABALAN.R	/	/	/	/	/
180.	15107185	SIVARANJINI.S	/	/	/	/	/
181.	15107188	SRINIVASAN.R	/	/	AB	/	/
182.	15107189	SRIRAM CHANDHAR.P	/	/	/	/	/
183.	15107191	SRISAAMNATH.K	/	/	/	/	/
184.	15107192	SUBRAMANIM	/	/	/	/	/
185.	15107193	SUGANESH.M	/	/	/	/	/
186.	15107195	SURESH KUMAR.S	/	/	/	/	/
187.	15107196	SUTHARSAN.K	/	/	/	/	/
188.	15107197	SWAMINATHAN.S	/	/	/	/	/
189.	15107198	TAMILARASAN.M	/	/	/	/	/
190.	15107199	TAMILMANI.A	/	/	/	/	/
191.	15107200	THANGA DURAIM	/	/	/	/	/
192.	15107201	THANGARAJI.G	/	/	/	/	/
193.	15107202	THEENAN.R	/	/	/	/	/
194.	15107203	THIRUMOORTHY.S	/	/	/	/	/
195.	15107205	VALLARASU.N	/	/	/	/	/

Sl.No	Register Number	Name of the student	26.06.17	27.06.17	28.06.17	29.06.17	30.06.17
196.	15107206	VEERAKANNAN.C	/	/	/	/	/
197.	15107207	VELMURUGAN.E	/	/	/	/	/
198.	15107208	VENKATESAN.S	/	/	/	/	/
199.	15107209	VENKATESH.R	/	/	/	/	/
200.	15107210	VIGNESH KUMAR.S	/	/	/	/	/
201.	15107211	VIGNESH.D	/	/	/	/	/
202.	15107212	VIGNESH.M	/	/	/	/	/
203.	15107213	VIGNESH.M	/	/	/	/	/
204.	15107214	VIGNESH.P	/	/	/	/	/
205.	15107215	VIGNESH.P	/	/	/	/	/
206.	15107216	VIGNESH.R	AB	/	/	/	/
207.	15107217	VIGNESH.S	/	/	/	/	/
208.	15107219	VIJAY.S	/	/	/	/	/
209.	15107220	VIJAY.S	/	/	/	/	/
210.	15107223	VINOTH KUMAR.P	/	/	/	/	/
211.	15107224	VINU.M	/	/	/	/	/
212.	15107225	VINVATH RAGAV.V.T	/	/	/	/	/
213.	15107226	VISHNU.M	/	/	/	AB	/
214.	15107227	VIVEK.S	/	/	/	/	/
215.	15107314	JASWANTH.S	/	/	/	/	/
216.	15107332	SENTHAMIL SELVAM.M	/	/	/	/	/
217.	15107334	SRINIVASAN.S	/	/	/	/	/
218.	15107337	VASANTH KUMAR.G	/	/	/	/	/
219.	15107338	VELU.K	/	/	/	/	/
220.	15107339	VENKATESH KUMAR.S	/	/	/	/	/
221.	15107340	VIDYAPATHI.G	/	/	/	/	/
222.	15107341	VIJAYAN.P	/	/	/	/	/

  
**COURSE CO-ORDINATOR**

Mr.K.Anand, Mr.T.Thangavel,  
 Mr.S.A.Venkatesh, Mr.C.Suresh Ap/Mech - PEC





# PAAVAI ENGINEERING COLLEGE

(Autonomous)

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

## Department of Mechanical Engineering

### CERTIFICATE

This is to certify

**Ahamed Sherif .J**

of Pavaai Engineering College, studying in Third Year has successfully completed the  
Inspection Techniques for Welding course from 26/06/2017 to 30/06/2017.

Course Coordinator

HOD

Principal

**COURSE OBJECTIVES**

To enable the students to

- know the basic concept power consumption.
- know the need of solar power plant design.
- understand the concept designing the solar power Plant and the elements needed for designing.

**1. Types of Solar Power Plant**

Grid Connected solar Power Plant, Grid interactive solar power plant, Net Metering Solar Power Plant, Off-Grid / Hybrid solar power , plant Schemes of solar power plant

**2. Selection of PV module technology**

Introduction, Crystalline technology, Thin film technology, Bi-facial technology, Comparison between PV module technology, Comparison between solar power plant energy out put

**3. Selection of PV module (cells and BOM) and sizing**

Types Crystalline module cells, Manufacturing process of PV cells, Comparison between mono crystalline Selection of PV cells, Selection of front and rear sheet, Selection of PV module glass

**4. Inverters Selection and Sizing (Grid Connection and Off Grid)**

Factors affecting plant location, factors in planning layouts, principles of plant layout, use of scale models.

**5. Connection of PV Module(Series and Parallel Circuit**

Series Circuits, Parallel Circuits, Combining Series & Parallel Circuits, PV module string connection Matching the PV Array To The Voltage Specifications of An Inverter, Matching the PV Array to the Inverter's Current Rating, Matching the PV Array to the Inverter's Power Rating Summary of Calculations for Matching Array and Inverter.

**TOTAL PERIODS 30**

**COURSE OUTCOMES**

At the end this course, students will be able to

- Identify the need of solar power plant over other sources.
- Apply the concepts for making plant designing for an industry and domestic appliances.
- Represent the designing structure of the plant.

**TEXT BOOKS**

1. Solar Power Systems Design: From the Sun into Electricity, Taleb Al-theanat Edition: 1st



Publisher: GIEEISBN: 978-0-9986916-0-2

## **REFERENCES**

1. "Power Generation, Operation and Control" by Wood A J and Wollenberg B F



# PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MECHANICAL ENGINEERING

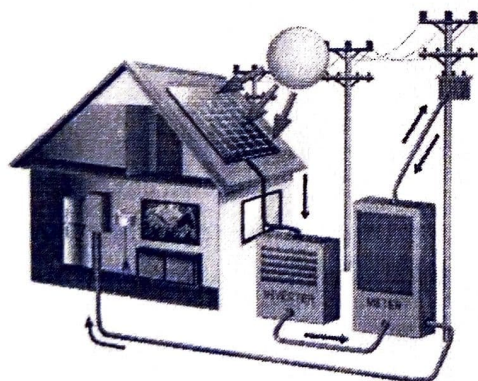
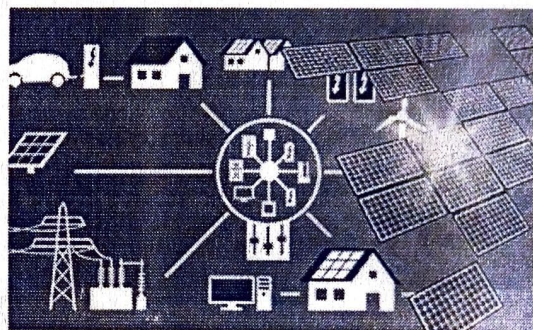
17PEDVC02-DESIGN OF SOLAR ENERGY SYSTEM

## ABOUT THE COURSE:

Solar Energy System Design builds upon the introduction to PV systems from Solar Energy Basics course, which included basic system components and functions, as well as some basic system sizing using simplifying assumptions. Have a basic understanding of electrical power and energy, be able to calculate the energy needs of a site as well as energy production potential for a PV system at a given location under optimal conditions. Much of this course will focus on incorporating on the ground conditions into energy production considerations, and how to account for these conditions in system design and equipment selection.

## INTENDED AUDIENCE:

- PG students those wants to know the basics of solar energy system.
- Those wants to design the solar energy system (panel, connection etc.,) in software.
- Those wants to know the various operating techniques in solar energy system design.



## DURATION OF THE COURSE:

Period: 06.01.2018 & 08.01.2018 to 11.01.2018

Total hours: 30 Hours (6 Hours /day)

## COURSE OUTCOMES:

At the end of this course students can be able to

1. Develop understanding on the PV plant design and select suitable technologies.
2. Design and simulate a PV power plant using software tool.
3. Plan project implementation, operation and maintenance.
4. Carry out techno-economic-environmental performance evaluation of a solar PV power plant

## COURSE CO-ORDINATOR:

Mr.M.MAKESH, ASP/MECH, PEC

## VENUE:

CAD/CAM Lab,  
Mechanical Department,  
Paavai Engineering College.

Note: Interested students enroll their name to the course in charge on or before 02.01.2018.



# PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MECHANICAL ENGINEERING

Date: 26.12.2017

## CIRCULAR

In our department it is planned to conduct the course on “**17PEDVC02 - DESIGN OF SOLAR ENERGY SYSTEM**” for our students from 06.01.2018 & 08.01.2018 to 11.01.2018. The PG students who are interested to improve their knowledge in solar energy system and its design process can register their name to the Course Co-ordinator “**Mr.M.MAKESH, ASP/MECH**” on or before 02.01.2018.

COURSE CO-ORDINATOR:

Mr.M.MAKESH, ASP/MECH

Head of the Department

Department of Mechanical Engineering

Copy to:

1. All Class rooms.
2. Department Notice board





# PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MECHANICAL ENGINEERING

Date: 06.01.2018

## ATTENDANCE SHEET

Academic Year: 2017 -2018

Name of the course: **17PEDVC02-DESIGN OF SOLAR ENERGY SYSTEM**

Sl.No	Register Number	Name of the student	06.01.18	08.01.18	09.01.18	10.01.18	11.01.18
1.	16304002	BHARATH CHANDRAN.B	/	AB	/	/	/
2.	16304003	RAJAPANDI.J	/	/	/	/	/
3.	16304004	SANTHOSH DEVA.J	AB	/	AB	AB	AB
4.	16304005	SASIKUMAR.K	/	/	/	/	/
5.	16304006	SILAMBARASAN.K	/	/	AB	/	/
6.	16304007	SUDARSON.P	/	/		/	/

**COURSE CO-ORDINATOR:**

**Mr. M.MAKESH, ASP/MECH**





# PAAVAI ENGINEERING COLLEGE

(Autonomous)

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

## Department of Mechanical Engineering

### CERTIFICATE

This is to certify

**Sasikumar .K**

of Paavai Engineering College, studying in Second Year (M.E., - ED) has successfully completed the Design of Solar Energy System course from 06/01/2018 to 11/01/2018.

Course Coordinator

HOD

Principal



**COURSE OBJECTIVES**

To enable the students to

- learn the fundamentals of robotics and components of robots.
- impart knowledge on end effectors and its design.
- familiarize with the robot kinematic equations

**UNIT 1 INTRODUCTION**

Mobile Robots – Types of mobile robots: Automated Guided vehicles (AGVs)- Service robots -Cleaning robots – Social Robots – Field Robots –Inspection and exploration robots- Humanoid robots– Nuclear robots – Underwater Robots - Autonomous Surface Vessels. Applications of mobile robots

**UNIT 2 KINEMATICS**

Kinematics models of mobile robots: Kinematic Models and Constraints – Hilaire mobile robots – Car-like mobile robots –Mobile Robot Manoeuvrability-Mobile Robot Workspace. Motion Control.

**UNIT 3 LOCOMOTION**

Introduction- Legged Mobile Robots- Leg configurations and stability- Examples of legged robot locomotion- Wheeled Mobile Robots- Wheeled locomotion: the design space- Wheeled locomotion.

**UNIT 4 SENSORS FOR MOBILE ROBOTS**

Representing Uncertainty- Feature Extraction -Mobile robot localization- Challenge of Localization: Noise and Aliasing - Map Representation - Probabilistic Map based Localization - Probabilistic Map-Based Localization.

**UNIT 5 PLANNING AND NAVIGATION**

Introduction- Competences for Navigation: Planning and Reacting- Navigation Architectures- Modularity for code reuse and sharing- Control localization- Techniques for decomposition- Case studies: tiered robot architectures.

**TOTAL PERIODS 30**

**COURSE OUTCOMES**

At the end this course, students will be able to

- identify various domains for robotic systems applications
- develop the kinematic model of mobile robots
- analyse the different concepts of locomotion

### **TEXT BOOKS**

1. Roland Siegwart, Illah Reza Nourbakhsh and Davide Scaramuzza, —Introduction to Autonomous Mobile RobotsI, 2nd Edition, MIT Press, Cambridge, 2011.

### **REFERENCES**

1. Ingemar J. Cox, and Gordon Thomas Wilfong, —Autonomous Robot VehiclesI, Springer, 2012.

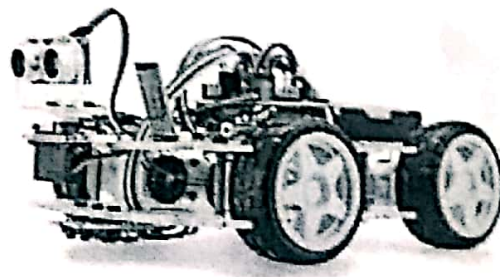


**PAAVAI ENGINEERING COLLEGE**  
(An Autonomous Institution, Affiliated to Anna University, Chennai)

**DEPARTMENT OF MECHATRONICS**

## **Training Course**

**INTRODUCTION TO MOBILE ROBOTICS**



**DATE OF THE COURSE: 26.6.2017 to 30.6.2017**

**VENUE: MECHATRONICS DEPARTMENT**

**COURSE IN CHARGE**  
**R. ARUNBABU AP/MCT**





## 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 MECHATRONICS

DATE: 19.6.2017

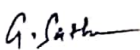
#### CIRCULAR

It is planned to conduct Five Days Training Course on "INTRODUCTION TO MOBILE ROBOTICS" for Seventh semester students from 26.6.2017 to 30.6.2017. The interested students are asked to enroll their name to the course coordinator R. ARUNBABU AP/MCT on or before date. (Spot registration can also be permitted).

Course Coordinators: 1. R. ARUNBABU, AP/MCT

- 

2. G. SATHEESH, AP/MCT

- 

  
HOD/MCT

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**PAAVAI ENGINEERING COLLEGE**  
(AUTONOMOUS)  
DEPARTMENT OF MECHATRONICS  
INTRODUCTION TO MOBILE ROBOTICS

Attendance sheet

S. No	Register Number	Student Name	26.6.17	27.6.17	28.6.17	29.6.17	30.6.17
1	622114115001	ABHIRAJ.R	/	/	/	AB	/
2	622114115002	ABISHEKMANIRAJ.G	/	/	/	/	/
3	622114115003	AHAMED HUSSAN.S	/	AB	/	/	/
4	622114115004	ARJUN GIRIDHARAN.M.C	/	/	/	/	/
5	622114115005	ARUN KRISHNAN	/	/	/	/	/
6	622114115006	ASHOKKUMAR.V	/	/	/	/	/
7	622114115007	MANNEPOLA ASHOKKUMAR	/	/	AB	/	/
8	622114115008	BADRINATH.S.K	/	/	/	/	/
9	622114115009	BALAMURUGAN.G	/	/	/	/	/
10	622114115012	DEVAKUMAR.J	/	/	/	/	/
11	622114115014	FEBIN MALIK	AB	/	/	/	/
12	622114115015	GOWTHAM.P	/	/	/	/	/
13	622114115017	HARISH.I	/	/	/	AB	/
14	622114115018	JAYARAMAN.K	/	/	/	/	/
15	622114115019	JEELAN RAJ.C	/	/	/	/	/
16	622114115020	JESU JOROFDIVIN.J	/	AB	/	/	/
17	622114115021	KAMALESH KUMAR.M	/	/	/	/	/
18	622114115023	KAPILESH.N	/	/	/	/	/
19	622114115024	KEERTHASANJAI.N	/	/	/	/	/
20	622114115025	KIRAN KUMAR.K	/	/	/	/	/
21	622114115027	LAKSHMI RAJ THILAK.R	/	/	/	/	AB
22	622114115028	MANEESH.C	/	/	/	/	/
23	622114115029	MANIKANDAN.M	AB	/	/	/	/
24	622114115030	MANOJ KUMAR.P	/	/	AB	/	/
25	622114115031	MITHUN DASS.J	/	/	/	/	/
26	622114115032	MOHAMED MARSOOK HAMEED.S.H	/	/	/	AB	/

27	622114115033	MONISH.S	AB	/	/	/	/
28	622114115035	NISHANTH.D	/	/	/	/	/
29	622114115036	PANNEER SELVAM.S	/	/	/	/	AB
30	622114115037	PERUMAL.M	/	/	/	/	/
31	622114115038	RAGUL.R	/	/	/	/	/
32	622114115039	RANJITH.R	/	/	/	/	/
33	622114115040	RANJITH KUMAR.R	/	AB	/	/	/
34	622114115041	RITHVIK.K	/	/	/	/	/
35	622114115042	SABARINATH.K.S	/	/	/	/	/
36	622114115043	SAKTHIVEL.C	/	/	/	/	/
37	622114115044	SAKTHIVEL.V	/	/	/	/	/
38	622114115045	SARAN RAJ.C	/	/	/	/	/
39	622114115046	SIVA KUMAR.S	/	/	/	AB	/
40	622114115047	SREEKANTH SREEKUMAR	/	/	/	/	/
41	622114115048	VIGNESH.G	/	/	/	/	/
42	622114115049	VIGNESHWARAN.G.C	/	/	/	/	/
43	622114115050	VIJAYABALAN.P.S	/	/	/	/	/
44	622114115301	ASHOK.S	/	/	/	/	/
45	622114115302	BALAJI.R	/	/	/	/	/
46	622114115303	PARTHBAN.C	/	AB	/	/	/
47	622114115304	PREM ANAND.G	/	/	/	/	/
48	622114115701	MOHAMMED AMMANULLAH	/	/	/	/	/
49	622114115702	THILAIVANAN.R	/	/	/	AB	/
50	622114115703	MEENA.J	/	/	/	/	/
51	622114115704	RAJKUMAR.K	AB	/	/	/	/
52	622114115705	KARTHIKEYAN.G	/	/	AB	/	/
53	622114115706	THIRUPATHI.M	/	/	/	AB	/
54	622114115707	LOGESHWARI.K	AB	/	/	/	/

  
 COURSE COORDINATOR



# **PAAVAI ENGINEERING COLLEGE**

(Autonomous)

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

**Department of Mechatronics Engineering**

## **CERTIFICATE**

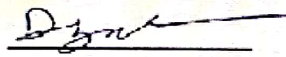
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**Gowtham. P**


of Paavai Engineering College, studying in Final Year has successfully completed the  
**Introduction to Mobile Robotics course from 26/06/2017 to 30/06/2017.**



Course Coordinator



HOD



Principal



**COURSE OBJECTIVES**

To enable the students to

- Define the principle of Web page design.
- Define the basics in web design
- Visualize the basic concept of HTML
- Visualize the working principle of multimedia
- To know about the basic concepts of CSS

**Module-1 Web Design Principles**

Basic principles involved in developing a web site, Planning process, Golden rules of web designing, Designing navigation bar, Page design, Home Page Layout, Design Concept.

**Module-2 Basics in Web Design**

Brief History of Internet, What is World Wide Web, Why create a web site, Web Standards, Audience requirement.

**Module-3 Introduction to HTML**

What is HTML, HTML Documents, Basic structure of an HTML document, Creating an HTML document, Mark up Tags, Heading-Paragraphs, Line Breaks, HTML Tags.

**Module-4 Elements of HTML**

Introduction to elements of HTML, Working with Text, Working with Lists, Tables and Frames, Working with Hyperlinks, Images and Multimedia, Working with Forms and controls.

**Module-5 Introduction to Cascading Style Sheets**

Concept of CSS, Creating Style Sheet, CSS Properties, CSS Styling(Background, Text Format, Controlling Fonts), Working with block elements and objects, Working with Lists and Tables

## **COURSE OUTCOMES**

At the end this course, students will be able to

- Understand the planning process, page design and overall concept in principles of web design
- Comprehend and analyze various structure of an HTML document
- Apprehend the HTML formats in reference models
- Downloadable lectures, code and design assets for the entire project
- Comprehend and analyze various CSS properties.

## **TEXT BOOKS**

1. Kogent Learning Solutions Inc. HTML 5 in simple steps Dreamtech Press

## **REFERENCES**

- 1 Steven M. Schafer HTML, XHTML, and CSS Bible, 5ed Wiley India
- 2 John Duckett Beginning HTML, XHTML, CSS, and JavaScript Wiley India
- 3 Ian Pouncey, Richard York Beginning CSS: Cascading Style Sheets for Web Design Wiley India

# PAAVAI ENGINEERING COLLEGE

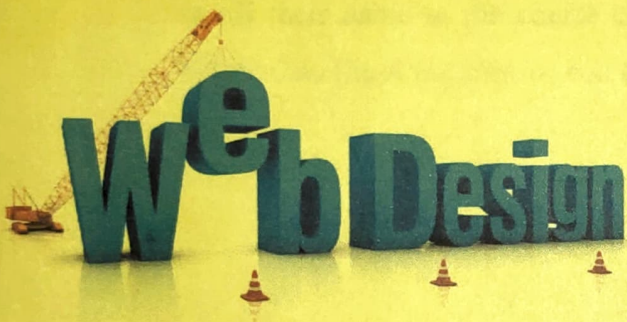
(AUTONOMOUS)

DEPARTMENT OF BIOMEDICAL ENGINEERING

## Training Course

### *WEB DESIGN*

---



Date: 01.07.2019 – 05.07.2019

#### **COURSE INCHARGE**

1. S.R. THIRUVASAKAM AP/BME



**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 BIOMEDICAL ENGINEERING**

**DATE: 03.06.2019**

**CIRCULAR**

It is planned to conduct Five Days Training Course on "WEB DESIGN" for 3<sup>rd</sup> semester students from 01.07.2019 - 05.07.2019 .The interested students are asked to enroll their name to the course coordinator S.R.THIRUVASAKAM,AP/BME on or before date.(Spot registration can also be permitted).

**HOD/BME**

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# PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

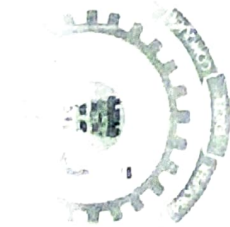
## DEPARTMENT OF BIOMEDICAL ENGINEERING

### Value added course Attendance sheet

S:No	Reg no.	Student Name	01.07.19	02.07.19	03.07.19	04.07.19	05.07.19
1.	18109001	G.AJITH	/	/	/	/	/
2.	18109002	K.ANJANA KUMARI	/	/	/	/	/
3.	18109004	M. ARUNA	/	/	/	/	/
4.	18109005	R.BHUVANAESHWARI	/	/	/	/	/
5.	18109006	S.DHANUSH	/	/	/	/	/
6.	18109007	K.DINESH	/	/	/	/	/
7.	18109008	A.FAIJOOR RAHUMAN	/	/	/	/	/
8.	18109010	K.GLORIA	/	/	/	/	/
9.	18109011	GOKULRAJ N	/	/	/	/	/
10.	18109012	S.V. INDHUJA	/	/	/	/	/
11.	18109013	B.JAMUNA	/	/	/	/	/
12.	18109014	B.JANANI	/	/	/	/	/
13.	18109015	S.P.JEEVA	/	/	/	/	/
14.	18109016	S.JOTHI	/	/	/	/	/
15.	18109018	V.KARUNANITHI	/	/	/	/	/
16.	18109019	M.KAVINKUMAR	A	/	/	/	/
17.	18109020	K.KAVINNILVAN	/	/	/	/	/
18.	18109021	N.KAVUSHIKA	/	/	/	/	/
19.	18109022	S.KEERTHANA	/	/	/	/	/
20.	18109023	S.MAHESHWARAN	A	/	/	/	/
21.	18109024	M.MANIKANDAN	/	/	/	/	/

22.	18109025	M.MANIMEGALAI	A	A	A	A	A
23.	18109026	M.PAVITHRA	A	/	/	/	/
24.	18109028	M.RAGUL	/	/	/	/	/
25.	18109029	M.RAJESH	/	/	/	/	/
26.	18109030	A.RAKESH	/	/	/	/	/
27.	18109031	S.RANJITHKUMAR	/	/	/	/	/
28.	18109032	S.SABARIBALAJI	/	/	/	/	/
29.	18109033	SANDRA ELIZABATH	/	/	/	/	/
30.	18109034	R.SARIKA	/	/	/	/	/
31.	18109035	S.SATHASIVAM	/	/	/	/	/
32.	18109036	S.SATHES	/	/	/	/	/
33.	18109037	V.SATHIYAPRIYA	/	/	/	/	/
34.	18109038	A.SATHIYAVANI	/	/	/	/	/
35.	18109039	B.SHOBICA	/	/	/	/	/
36.	18109040	G.SILAMBARASAN	/	/	/	/	/
37.	18109041	R.SIREESHA	/	/	/	/	/
38.	18109042	T.SUMAIYA	A	/	/	/	/
39.	18109043	R.SURYA	/	/	/	/	/
40.	18109044	M.SWATHI	/	/	/	/	/
41.	18109045	N.UDHAYANITHI	/	/	/	/	/
42.	18109046	K.VAISHNAVI	A	/	/	/	/
43.	18109047	VINITHA.P	/	/	/	/	/
44.	18109301	V.AGALYA	/	/	/	/	/

  
 Course Coordinator



# PAAVAI ENGINEERING COLLEGE

(Autonomous)

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

## Department of Biomedical Engineering

### CERTIFICATE

This is to certify

**Sandra Elizabeth**

of Paavai Engineering College, studying in Second Year has successfully completed  
the Web Design course from 01/07/2019 to 06/07/2019.

Course Coordinator

HOD

Principal

**COURSE OBJECTIVES**

To enable the students to

- define the principle of Web page design.
- define the basics in web design
- visualize the basic concept of HTML
- apprehend and analyze the working of hyperlinks , Images and Multimedia, Working with Forms and controls
- visualize the basics of concept and properties of CSS

**Module-1 Web Design Principles**

Basic principles involved in developing a web site, Planning process, Golden rules of web designing, Designing navigation bar, Page design, Home Page Layout, Design Concept.

**Module-2 Basics in Web Design**

Brief History of Internet, What is World Wide Web, Why create a web site, Web Standards, Audience requirement.

**Module-3 Introduction to HTML**

What is HTML, HTML Documents, Basic structure of an HTML document, Creating an HTML document, Mark up Tags, Heading-Paragraphs, Line Breaks, HTML Tags.

**Module-4 Elements of HTML**

Introduction to elements of HTML, Working with Text, Working with Lists, Tables and Frames, Working with Hyperlinks, Images and Multimedia, Working with Forms and controls.

**Module-5 Introduction to Cascading Style Sheets**

Concept of CSS, Creating Style Sheet, CSS Properties, CSS Styling(Background, Text Format, Controlling Fonts), Working with block elements and objects, Working with Lists and Tables



## **COURSE OUTCOMES**

At the end this course, students will be able to

- understand the planning process, page design and overall concept in principles of web design
- apprehend the html formats in reference models
- apprehend the html documents & heading paragraphs
- understand the usage of hyperlinks ,images and multimedia
- comprehend and analyze various css properties.

## **TEXT BOOKS**

1. Kogent Learning Solutions Inc. HTML 5 in simple steps Dreamtech Press

## **REFERENCES**

- 1 Steven M. Schafer HTML, XHTML, and CSS Bible, 5ed Wiley India
2. John Duckett Beginning HTML, XHTML, CSS, and JavaScript Wiley India
3. Ian Pouncey, Richard York Beginning CSS: Cascading Style Sheets for Web Design Wiley India

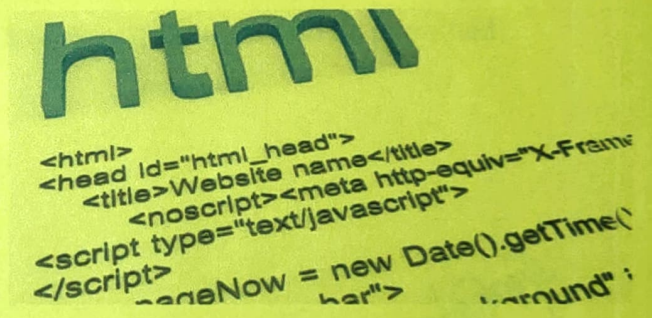
**PAAVAI ENGINEERING COLLEGE**

**(AUTONOMOUS)**

**DEPARTMENT OF MEDICAL ELECTRONICS**

# **Training Course**

## ***HYPERTEXT MARKUP LANGUAGE***



**Date: 17.06.2019 – 22.06.2019**

**COURSE INCHARGE**

1. S.BHARATHAN,AP/MDE



**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 MEDICAL ELECTRONICS**

**DATE: 03.06.2019**

**CIRCULAR**

It is planned to conduct Five Days Training Course on "HYPERTEXT MARKUP LANGUAGE " for 3<sup>rd</sup> semester students from 17.06.2019 to 22.06.2019. The interested students are asked to enroll their name to the course coordinator S.BHARATHAN,AP/MDE on or before date.(Spot registration can also be permitted).

**HOD/MDE**

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# PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

## DEPARTMENT OF MEDICAL ELECTRONICS

### Value added course Attendance sheet

S:No	Reg no.	Student Name	17.06.19	18.06.19	19.06.19	20.06.19	21.06.19
1.	18110001	AISHWARYA S V	/	/	A	/	/
2.	18110002	DINESH R	A	A	A	A	A
3.	18110003	GOKUL V	A	A	A	/	/
4.	18110004	GOWTHAMI S	A	A	A	/	/
5.	18110005	HARISH DEVA M	/	/	/	/	/
6.	18110006	KAVIN S	/	/	/	A	/
7.	18110007	MAGA G	A	/	A	/	/
8.	18110008	MALATHI B	/	/	/	/	/
9.	18110009	NATESH R	A	/	A	/	/
10.	18110010	NAVAMANI K	A	/	/	/	/
11.	18110013	SEMMOZHISELVAN S	A	A	A	/	/
12.	18110014	SUGUNA R	/	/	/	/	/
13.	18110015	THIRUVARASAN S	/	/	/	/	/
14.	18110016	VASUNTHERA V	/	/	/	/	/
15.	18110017	VIGNESH R	A	/	A	/	/

*S. Shanthan.*  
Course Coordinator





# PAAVAI ENGINEERING COLLEGE

(Autonomous)

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

## Department of Medical Electronics

### CERTIFICATE

This is to certify

**Vasunthera. V**

of Paavai Engineering College, studying in Second Year has successfully completed  
the Hypertext Markup Language course from 17/06/2019 to 22/06/2019.

*J. Bhaskaran*

Course Coordinator

*J. Bhaskaran*

HOD

*pr*

Principal

**COURSE OBJECTIVES**

- To enable the students to gain knowledge on
- Material balance & energy balance equations for a system with multiple unit operations with and without chemical reaction
- To solve vapor-liquid equilibrium relationship for ideal and non-ideal liquid mixture
- Formulate number of independent material balance equations of the system for degree of freedom analysis.
- Solution of the set of linear/nonlinear equations using MATLAB user defined functions such as, matrix solver, fsolve, etc.
- Study of temperature and level dynamics of a stirred tank heater
- Dynamics of state variables (temperature of each tank) with the help of transient analysis.
- Computation of bubble point temperature of ideal liquid mixture.
- Transient analysis in a non-adiabatic CSTR using lumped parameter model.
- Transient analysis in a PFR using distributed parameter model.

**TOTAL PERIODS 30****COURSE OUTCOMES**

At the end this course, students will be able to

- Formulate number of independent material balance and energy balance equations of the system for degree of freedom analysis.
- Solve the set of linear/nonlinear equations using MATLAB user defined functions such as, matrix solver, fsolve, etc.
- Solve the energy balance equations using MATLAB user defined functions

**TEXT BOOKS**

1. Process Modeling, Simulation and Control for Chemical Engineers, William L. Luyben, McGraw Hill

**REFERENCES**

1. Introduction to MATLAB For Engineering Students by David Houcque.



## **PAAVAI ENGINEERING COLLEGE**

(An Autonomous Institution affiliated to Anna university & AICTE, New Delhi)  
Namakkal-637018

### **DEPARTMENT OF CHEMICAL ENGINEERING**

**CORDIALLY INVITE YOU TO THE VALUE ADDED COURSE ON  
MATLAB for Chemical Engineers**

**on June 4<sup>th</sup> to 9<sup>th</sup> 2019 @ 10.00 am.  
Venue: Cute Hall**

**Resource Person**

**Dr. UDHAYA BHASKARA REDDY**  
Associate Professor, Amirta University, Coimbatore

**D. Sreenivasan**  
Course Coordinator

**Dr. G. Srinivasan**  
Head of the Department

**Dr. M. PremKumar**  
Principal

**All Department Faculty Members & Students**

**Invite you one and all**



**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 CHEMICAL ENGINEERING**

**DATE: 27.05.2019**

**CIRCULAR**

It is planned to conduct Six Days Training Course on "MATLAB FOR CHEMICAL ENGINEERS" for Fourth semester students from 04.06.2019 to 09.06.2019. The interested students are asked to enroll their name to the course coordinator D. Sreenivasan/ Chemical on or before 01.06.2019. (Spot registration can also be permitted).

Course Co-ordinator: I. D. Sreenivasan/Chemical

  
**HOD/CHEMICAL**

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# PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF CHEMICAL ENGINEERING

## Value added course- Attendance sheet

S:No	STUDENT NAME	04.06.19	05.06.19	06.06.19	07.06.19	08.06.19	09.06.19
1.	ABINESH.M	/	/	/	/	/	/
2.	ANOOP POULOSE	/	/	/	/	/	/
3.	ANUMOL POULOSE	/	/	/	/	/	/
4.	ARAVINDHA KUMAR.M	/	/	/	/	/	/
5.	ARUL PRAKASAM.J	/	/	/	/	/	/
6.	BALAKUMARAN.N	/	/	/	/	/	/
7.	CHANDRA SEKAR.N	/	/	/	/	/	/
8.	CLINTON.A	/	/	/	/	/	/
9.	DEEBANRAJ.T	/	/	/	/	/	/
10.	DEVARAM.T.S	/	/	/	/	/	/
11.	DHARSHANA.N	/	/	/	/	/	/
12.	DINESH.S	/	/	/	/	/	/
13.	DIVYA.M	/	/	/	/	/	/
14.	DURGA.G	/	/	/	/	/	/
15.	ELAVARASAN.J.G	/	/	/	/	/	/
16.	ELAYARAJA.R	/	/	/	/	/	/
17.	GOKUL.S	/	/	/	/	/	/
18.	GOKULA KRISHNAN.P.V	/	/	/	/	/	/
19.	GOKULAKRISHNAN.M	/	/	/	/	/	/
20.	GOWTHAMAPRABHAKARAN.S	/	/	/	/	/	/
21.	HALITH.M	/	/	/	/	/	/
22.	HEMALATHA.S	/	/	/	/	/	/
23.	INDUMATHI.M	/	/	/	/	/	/
24.	JAHAN RAJA.B.S	/	/	/	/	/	/
25.	JEEVANANDHAM.G.S	/	/	/	/	/	/
26.	JIFIN JOY	/	/	/	/	/	/
27.	KAMESH NANDHA.A	/	/	/	/	/	/
28.	KARTHIKEYAN.D	/	/	/	/	/	/
29.	KARTHIKEYAN.R	/	/	/	/	/	/
30.	KRISHNAMURTHY.B	/	/	/	/	/	/

31.	LAKSHIMANAN.R	/	/	/	/	/	/
32.	MAHESHWARAN.P	/	/	/	/	/	/
33.	MANIMARAN.S	/	/	/	/	/	/
34.	MEGHA KURIAKOSE	/	/	/	/	/	/
35.	MOHAMMED ANASH.A	/	/	/	/	/	/
36.	MUHAMMED RAFNASH.A	/	/	/	/	/	/
37.	NAVEEN KUMAR.M	/	/	/	/	/	/
38.	NITHISH.P	/	/	/	/	/	/
39.	NIVASH BABU.M	/	/	/	/	/	/
40.	POOVARAGAVAN DEEPAKRAJ.K	/	/	/	/	/	/
41.	PRADEEP.M	/	/	/	/	/	/
42.	PRASANTH.R.S	/	/	/	/	/	/
43.	RAMANI KANNAN.R.C	/	/	/	/	/	/
44.	RAVI.G	/	/	/	/	/	/
45.	SAIKUMAR.T	/	/	/	/	/	/
46.	SANGEETHA .N	/	/	/	/	/	/
47.	SATHISHKUMAR.M	/	/	/	/	/	/
48.	SAYANTH.P.S	/	/	/	/	/	/
49.	SELVAKUMAR.A	/	/	/	/	/	/
50.	SHUHAIB AKTHAR N P	/	/	/	/	/	/
51.	SUBASH CHANDRA BOSE	/	/	/	/	/	/
52.	SUBRAMANIYAN.K	/	/	/	/	/	/
53.	SURESH.S	/	/	/	/	/	/
54.	THIRUMURUGAN.R	/	/	/	/	/	/
55.	VIGNESH.J	/	/	/	/	/	/



Course Coordinator





# PAAVAI ENGINEERING COLLEGE

(Autonomous)

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

Department of Chemical Engineering

## CERTIFICATE

This is to certify

**Dharsana .N**

of Paavai Engineering College, studying in Second Year has successfully completed  
the MATLAB for Chemical Engineers course from 04/06/2019 to 09/06/2019.

Course Coordinator

HOD

Principal

**COURSE OBJECTIVES**

To enable the students to

- To understand about the concept of Web technology
- To be familiar with creating of database using ADO.NET.
- To study about ASP.NET

**Unit I**

Introductions, course mechanics, .NET Overview, CLR, Assemblies (monolithic vs. component-based applications), Execution Model, Client-Side vs. Server-Side Programming, Web Technologies. Development Environment Setup, ISS, SQL Server and Visual Studio, Advanced C#: OOP, Delegates, Events, Attributes, unsafe code, .NET Interop

**Unit II**

.NET Framework Class Library (FCL): System, Collections, I/O, Networking, Threading, Transactions, Exceptions. Databases and Data Access using ADO.NET & LINQ.

**Unit III**

Introduction to ASP.NET, programming model, server controls, data binding-ASP.NET state management, tracing, caching, error handling, security, deployment, user and custom controls, DotNetNuke. Exposing and consuming ASP.NET Web Services, XML, RESTful, SOAP, DISCO, UDDI

**TOTAL PERIODS 30**

**COURSE OUTCOMES**

At the end this course, students will be able to

- understand the concept of Web technology
- Implement creating of database using ADO.NET.
- Analyze about ASP.NET

**TEXT BOOKS**

1. "Trueman's UGC NET/SET General Paper I" M. Gagan, Sajit Kumar

**REFERENCES**

1. "Functional Concurrency in .net: With Examples in C# and F#" by Riccardo Terrell
2. "Dot Net Technology" by Damini Grover





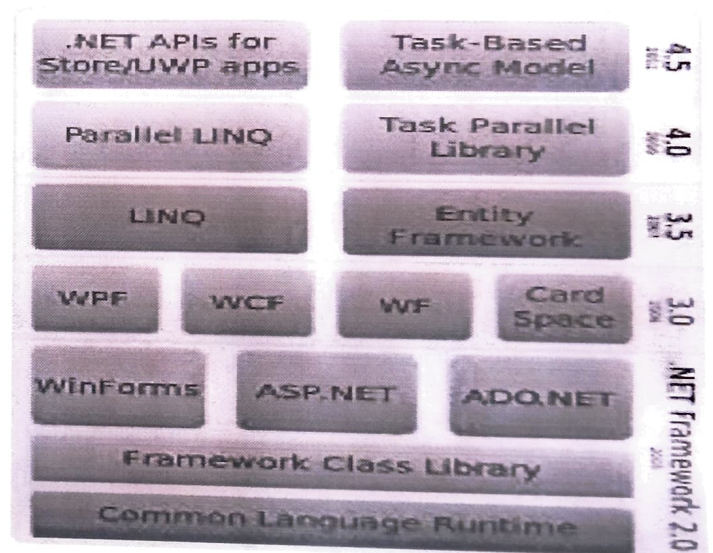
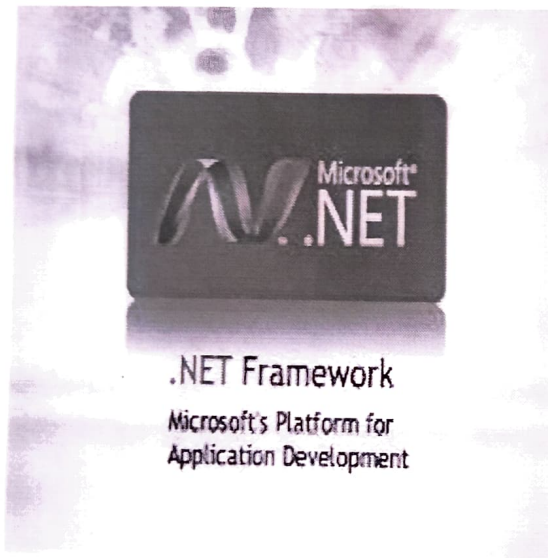
# PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF INFORMATION TECHNOLOGY

## Training Course

### DOT NET FRAMEWORK



Date: 01.12.2015 to 05.12.2015

#### COURSE COORDINATORS

1. M.PUSHPALATHA, ASP/IT

2. B.VENKATESAN, AP/IT



# **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 INFORMATION TECHNOLOGY**

**DATE: 23.11.2015**

### **CIRCULAR**

It is planned to conduct Five Days Training Course on "DOT NET FRAMEWORK" for Fourth semester students from 01.12.15 to 05.12.15. The interested students are asked to enroll their name to the course coordinator M.PUSHPALATHA, ASP/IT on or before date. (Spot registration can also be permitted).

Course Co-ordinators: 1.B.VENKATESAN,AP/IT

2. M.PUSHPALATHA, ASP/IT

  
HOD/IT

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# PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

## DEPARTMENT OF INFORMATION TECHNOLOGY

### Value added course Attendance sheet

S: No	Register No	Student Name	01.12.15	02.12.15	03.12.15	04.12.15	05.12.15
1.	622114205002	M. ABUBACKKAR SHITHIK	/	/	/	/	/
2.	622114205007	T. CHANTRASEKAR	/	/	/	/	/
3.	622114205009	R. GANESH	AB	/	/	/	/
4.	622114205010	M. GOVINDARAJ	/	/	AB	/	AB
5.	622114205011	S. INDUMATHI	/	AB	/	/	/
6.	622114205013	K. KAVIN	/	/	/	/	/
7.	622114205015	A. KISHORE CHOWDARY	/	/	/	/	/
8.	622114205017	N.MEENA	/	/	/	/	/
9.	622114205018	M. MONIKA	/	/	/	/	/
10.	622114205019	G. NAVEENKUMAR	AB	/	/	/	/
11.	622114205020	M. PRABAKARAN	/	/	AB	/	/
12.	622114205021	S.SOMNATH	/	/	/	/	/
13.	622114205022	K. SURYA	/	/	AB	AB	/
14.	622114205023	M. SWATIKA	AB	/	/	/	/
15.	622114205024	R. UMAMAHESWARI	/	/	/	/	/
16.	622114205025	G. VIDYADHARRAN	/	/	AB	AB	/
17.	622114205301	M.HINDUJA	/	/	/	/	/
18.	622114205302	M.KARTHICKUMAR	/	/	/	/	/
19.	622114205303	P.PRAVEENKUMAR	AB	/	/	/	AB

20.	622114205304	M.PRIYANGA	/	/	/	/	/
21.	622114205305	P.RAGUPATHI	AB	/	AB	/	/

  
Course Incharge





# PAAVAI ENGINEERING COLLEGE

(Autonomous)

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

Department of Information Technology

## CERTIFICATE

This is to certify

**Monika .M**

of Paavai Engineering College, studying in Second Year has successfully completed  
the Dot Net Framework course from 01/12/2015 to 05/12/2015.

H. J. J. J.

Course Coordinator

S. S. S.

HOD

P.

Principal

**COURSE OBJECTIVES**

To enable the students to

- outline the main international fisheries resources and their level of exploitation
- identify the fisheries resources produced from aquaculture, including fish and invertebrates
- To understand social aspects and environmental impact of aquaculture

**Unit I**

Overview importance's of coastal and freshwater aquaculture, global scenario, present status in India - prospects and scope.

**Unit II**

Selection of site: topography, water availability, soil conditions, design and layout, structure and construction. Preparation of ponds – different methods for the eradication of weed fishes, predators, aquatic insects and aquatic weeds.

**Unit III**

Selection of cultivable Species- Finfishes, Shellfishes and Seaweeds. Seed selection protocol and seed availability – wild source, hatchery source. Live feed culture – artemia, rotifer and microalgae. Water Quality Management.

**TOTAL PERIODS 30**

**COURSE OUTCOMES**

At the end this course, students will be able to

- outline the social and economic importance of fish as a source of food
- To impart knowledge on macro and trace constituents and nutritive value of fish.
- To give a detailed insight into handling, fish preservation techniques and quality management systems for seafood

**TEXT BOOKS**

1. Bardach, John.E. 1997 Sustainable Aquaculture. John Wiley and Sons.

**REFERENCES**

1. Joachim W., Hertrampf and F.P Pascal, 2000 Handbook on Ingredients for Aquaculture feeds. Kluwer Academic Publishers, London.



## **PAAVAI ENGINEERING COLLEGE**

(An Autonomous Institution affiliated to Anna university & AICTE, New Delhi)  
Namakkal-637018

### **DEPARTMENT OF FOOD TECHNOLOGY**

*Announce value added course on  
AQUA FOOD TECHNOLOGY*

on July 01<sup>st</sup> to 5<sup>th</sup> 2019 @ 10.00 am.  
Venue: Cute Hall

**Resource Person**

**Dr. STAINLY ABHRAHAM**

Scientist, Centre for Ocean Research, SIST, Chennai

**J.S. Ruthrapriya**  
Course Coordinator

**D. Sreenivasan**  
Head of the Department

**Dr. M. PremKumar**  
Principal

*All Department Faculty Members & Students*

*Invite you one and all*



**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 FOOD TECHNOLOGY**

**DATE: 17.06.2019**

**CIRCULAR**

It is planned to conduct Five Days Training Course on "AQUA FOOD TECHNOLOGY" for Third semester students from 01.07.2019 to 05.07.2019. The interested students are asked to enroll their name to the course coordinator J.S. Ruthrapriya/Food on or before 22.06.2019. (Spot registration can also be permitted).

Course Co-ordinator: I. J.S. Ruthrapriya/ Food

**HOD/FOOD**

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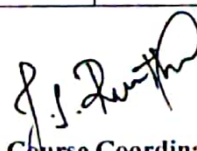
# PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

## DEPARTMENT OF FOOD TECHNOLOGY

### Value added course Attendance sheet

S.No	STUDENT NAME	01.07.19	02.07.19	03.07.19	04.07.19	05.07.19
1.	ABIPRIYA.R	/	/	/	/	/
2.	AKASH BABU.J.S	/	/	/	/	/
3.	AKHIL SHABU	/	/	/	/	/
4.	ALEN JOSE	/	/	/	/	/
5.	AMAL FRANCIES	/	/	/	/	/
6.	BALAJI.G	/	/	/	/	/
7.	DEENATHAYALAN S	/	/	/	/	/
8.	DEEPAK.J	/	/	/	/	/
9.	GUNALAN.G	/	/	/	/	/
10.	HARINI.U	/	/	/	/	/
11.	JANANI.P	/	/	/	/	/
12.	JAYASHREE.C	/	/	/	/	/
13.	KALAIMATHI.A	/	/	/	/	/
14.	LAVANYA.S	/	/	/	/	/
15.	NAVEENKUMAR.S	/	/	/	/	/
16.	NIVETHA.J	/	/	/	/	/
17.	NIVETHA.S	/	/	/	/	/
18.	PRASANNA KUMAR.M V	/	/	/	/	/
19.	PRADEEP.G	/	/	/	/	/
20.	SANGAVI.A	/	/	/	/	/
21.	SAREN ROKITH.M	/	/	/	/	/
22.	SWEETY.P	/	/	/	/	/
23.	VIJAYAPERUMAL.S	/	/	/	/	/
24.	VIRUTHIKA.P	/	/	/	/	/

  
Course Coordinator



# PAAVAI ENGINEERING COLLEGE

(Autonomous)

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

Department of Food Technology

## CERTIFICATE

This is to certify

**Abipriya .R**

of Paavai Engineering College, studying in Second Year has successfully completed  
the Aqua Food Technology course from 01/07/2019 to 05/07/2019.

Course Coordinator

HOD

Principal

## **19PTVC301 IMPORTANCE OF MEDICINAL PLANTS AND ITS BIOCHEMICAL VALUES**

### **COURSE OBJECTIVES**

To enable the students to

- To learn about phytochemistry of medicinal plants
- Understand the concepts of phytochemistry
- biological activities of medicinal plants

#### **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**

Structural analysis of bioactive compounds – IR spectroscopy – Mass spectrometry – NMR spectroscopy.

**TOTAL PERIODS 30**

### **COURSE OUTCOMES**

At the end this course, students will be able to

- Able to appreciate the medicinal values of plants
- Familiarize the bio-active components present in the plants
- Know the various techniques involved in the phytochemistry

### **TEXT BOOKS**

1. Godte V.M. 2000. Ayurvedic pharmacology and therapeutic uses of medicinal plants, Bharathiya Vidya Bhavan, Mumbai

### **REFERENCES**

1. Majumdar, A. 2000. Home remedies in Ayurveda, Amar Granth Publications, New Delhi.



## **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  
IMPORTANCE OF MEDICINAL PLANTS AND ITS BIOCHEMICAL  
VALUES**

**on July 01<sup>st</sup> to 5<sup>th</sup> 2019 @ 10.00 am.  
Venue: Seminar Hall**

**Resource Person**

**Dr. H. HARIKRISHNAN**

**Assistant Professor (S.G), Santgits College of Engineering, Kerala**

**Dr. K. Muthamizhi  
Course Coordinator**

**Dr. G. Srinivasan  
Head of the Department**

**Dr. M. PremKumar  
Principal**

*All Department Faculty Members & Students*

*Invite you one and all*





**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 PHARMACEUTICAL TECHNOLOGY**

**DATE: 17.06.2019**

**CIRCULAR**

It is planned to conduct Five Days Training Course on "Importance of Medicinal Plants and Its Biochemical Values" for Third semester students from 01.07.2019 to 05.07.2019. The interested students are asked to enroll their name to the course coordinator Dr.K.Muthamizhi/Pharma on or before 22.06.2019. (Spot registration can also be permitted).

Course Co-ordinator: 1. Dr.K.Muthamizhi/Pharma

  
**HOD/PHARMA**

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# PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

## DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY

### Value added course Attendance sheet

S.No	STUDENT NAME	01.07.19	02.07.19	03.07.19	04.07.19	05.07.19
1.	AJEETHA.K	/	/	/	/	/
2.	ANANTHI.C	/	/	/	/	/
3.	ARAVINDHA KUMAR.G	/	/	/	/	/
4.	ARUN KARTHICK.K	/	/	/	/	/
5.	ASHWIN.S	/	/	/	/	/
6.	GAYATHRI.K	/	/	/	/	/
7.	GOKULRAJ.R	/	/	/	/	/
8.	JEEVIKA.S	/	/	/	/	/
9.	JEGAN.S	/	/	/	/	/
10.	JOSEVANITHIN	/	/	/	/	/
11.	KARTHIKA. P	/	/	/	/	/
12.	KISHORE.J	/	/	/	/	/
13.	PAVILAN.T	/	/	/	/	/
14.	PAVITHRA.G	/	/	/	/	/
15.	PRABHAVATHI.K	/	/	/	/	/
16.	PRAVEENKUMAR.M	/	/	/	/	/
17.	PUGAZHENDHI.V	/	/	/	/	/
18.	QUEEN SANTHOSHINI.C	/	/	/	/	/
19.	RAMKUMAR.R	/	/	/	/	/
20.	SANDHIYA.A	/	/	/	/	/
21.	SANGATH SARAN.L.K	/	/	/	/	/
22.	SATHIYARAJ.M	/	/	/	/	/
23.	SAVITHA.M	/	/	/	/	/
24.	SNEHA.M	/	/	/	/	/
25.	SOUNDARRAJAN.S	/	/	/	/	/
26.	SOWDAMBIKA.R	/	/	/	/	/
27.	SRINIVASAN.R	/	/	/	/	/
28.	VETRIVEL.C	/	/	/	/	/
29.	VIMAL RAJ.G	/	/	/	/	/
30.	YUVARAJ.S	/	/	/	/	/

K. Muthamizh  
Course Coordinator



# **PAAVAI ENGINEERING COLLEGE**

(Autonomous)

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

**Department of Pharmaceutical Technology**

## **CERTIFICATE**

This is to certify

**Queen Santhoshini .C**

of Paavai Engineering College, studying in Second Year has successfully completed  
the Importance of Medicinal Plants and its Biochemical Values course from

**01/07/2019 to 05/07/2019.**

K. Muthamizh

**Course Coordinator**

G. V. Srinivasan

**HOD**

P.

**Principal**



**COURSE OBJECTIVES**

To enable the students to

- To search, analyse, and work with legally relevant information by using the juridical, comparative and other specific methods
- Learn how to work cooperatively in groups.
- enable them to engage in policy decisions to remove gender biases in all fields of life in the process of gender equality for nation building

**MODULE 1: Gender theory and law**

Approaches to gender and law, Gender theory, Conflict, integrationist and hermeneutic approaches, Feminist theory, Human rights of women and legal theory, Feminist jurisprudence, Legal and gender expertise

**MODULE 2: Gender equality and human rights**

Gender and human rights theory, History of human rights movements, Suffrage movements, International treaties and prohibition of gender-based discrimination, EU human rights law and gender

**MODULE 3: Gender equality and labour law**

Current challenges for Gender equality, Anti-gender movements, Biopolitics and legal instruments of body control. Sexual violence in conflict. Challenges to human rights of women, women and austerity.

**TOTAL PERIODS 30**

**COURSE OUTCOMES**

Students must gain knowledge on

- how to work with information (search, evaluate, use information, necessary for fulfilment of scientific and professional tasks, from various sources, including application of the systematic approach)
- professional activities in the international environment
- the removal of gender biases in all fields of life in the process of gender equality for nation building

**TEXT BOOKS**

1. Cornell RW (1995) Gender. Cambridge, Polity Press.



2. Gatens M (1991) A Critique of the Sex/Gender Distinction in S. Gunew (ed.) A Reader in Feminist Knowledge. London: Routledge.

## REFERENCES

1. Andrea N (1989) Feminist Theory and Philosophies of Men. New York: Routledge.
2. Arora P (2011) Gender and Power. Delhi: Pacific Publication.

# **PAAVAI ENGINEERING COLLEGE**

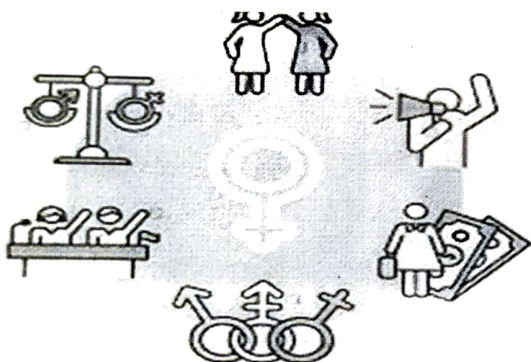
**(Autonomous)**

**DEPARTMENT OF SCIENCE AND HUMANITIES**

**GENDER EQUALITY AND HUMAN RIGHTS**

## **ABOUT THE COURSE:**

- This course will explore women's participation in activism and how gender-based discrimination encouraged women to voice their discontent about traditional gender roles and also Human Rights is all about human rights which create equality among all citizens irrespective of the differences such as caste, religion, gender, race etc. These rights are fundamental to all citizens and are given under the constitution of India.



## **GENDER EQUALITY AND HUMAN RIGHTS**

## **INTENDED AUDIENCE:**



- All the first year of B.E., B.Tech students
- Who have curiosity in developing strengthen the rights of humans

Course coordinator: 1. Mrs.C.Manjula/AP, Maths



**PAAVAI ENGINEERING COLLEGE, NAMAKAL-637018**  
(As Autonomous Institution - Affiliated to Anna University, Chennai)

**DEPARTMENT OF SCIENCE AND HUMANITIES**

Date: 17.08.2018

**CIRCULAR**

It is planned to conduct Five Days Training Course on Gender Equality and Human Rights for our first year students from 27.08.2018 to 31.08.2018. The interested students asked to enroll their name to the course coordinator Mrs.C.Manjula, AP/Maths on or before 20.08.2018

Course coordinators: 1) Mrs.C.Manjula, AP/Maths

  
HOD/S&H

Copy to:  
All Students  
Notice board

# PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

## DEPARTMENT OF SCIENCE AND HUMANITIES

### Value added course Attendance sheet

S.No	Reg.No	Student Name	27/8/18	28/8/18	29/8/18	30/8/18	31/8/18
1.	18101001	AASIKA.D	/	/	/	/	/
2	18101002	ARAVINDH.C	/	/	/	/	/
3	18101003	BALAJI.K	/	/	/	/	/
4	18101004	DAYA SRI.S	/	/	/	/	/
5	18101005	DEEPIKASRI.R	/	/	/	/	/
6	18101006	GOKUL.M	/	AB	/	/	/
7	18101007	GOKULVARATHAN.B	/	/	/	/	/
8	18101008	HARIHARAN.N	/	/	/	AB	AB
9	18101009	HARIKRISHNAN.J	/	/	/	/	/
10	18101010	JOESON.Y	/	/	/	/	/
11	18101011	KAMALESH KUMAR.T	/	/	/	/	/
12	18101012	KEERTHI.S	/	/	/	/	/
13	18101013	KISHORE.M	/	/	/	/	/
14	18101014	MALATHIKA.M	AB	/	/	/	/
15	18101015	MANIKANDAN.M	/	/	/	/	/
16	18101016	MANOJKUMAR.A	/	/	/	/	/
17	18101017	MATHIYAZHAGAN.A	/	/	AB	AB	/
18	18101018	MEGANATHAN.M	/	/	/	/	/
19	18101019	MOHAMMED RIZWAN.M	/	/	/	/	/
20	18101020	MUTHUKUMAR.G	AB	/	/	/	/



21	18101021	NAVANEETHAN.T	/	/	/	/	/
22	18101022	NAVEENKUMAR.N	/	/	/	/	/
23	18101023	NETHAJI.A	/	/	/	/	/
24	18101024	NIRANJAN.V	AB	/	/	/	/
25	18101025	PAPPANNAN.S	AB	AB	/	/	/
26	18101026	PRAKASH.A	/	/	/	/	/
27	18101027	PRAVEENKUMAR.P	/	/	/	/	AB
28	18101028	RAJASIMMAN.M	/	/	/	/	/
29	18101029	SAMUEL.P	/	/	/	/	/
30	18101030	SARATH KUMAR.S	/	AB	AB	/	/
31	18101031	SARITHIRANAYAGAN.S	/	/	/	/	/
32	18101032	SATHISH KUMAR.S	/	/	/	AB	/
33	18101033	SHANMUGAM.S	/	/	/	/	/
34	18101034	THIRUMAHALAKSHMI.V	/	/	/	/	/
35	18101035	VIJAYAKUMAR.C	AB	/	/	/	/

Course Coordinator

[C. MANJULA]

HOD/S&H



# PAAVAI ENGINEERING COLLEGE

(Autonomous)

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

Department of S & H

## CERTIFICATE

This is to certify

**Keerthi.S**

of Paavai Engineering College, studying in First Year has successfully completed the  
Equality and Human Rights course from 01/12/2015 to 05/12/2015.

Course Coordinator

HOD

Principal

## **INTRODUCTION TO BUSINESS ANALYTICS**

### **COURSE OBJECTIVES**

to enable the students to

- To understand the purpose of using business analysis tools within an organization, dataset for making a business decisions and R studio for data analysis.
- Know the business Applied artificial intelligence and Visual analysis
- Analyse the data and stature of the business

### **COURSE CONTENT**

**Unit I** Introduction to Business Analytics and Big Data Business Analytics – Definition - Need – Scope - A categorization of Analytical Methods – Analytics in action – Big data – Business analytics in practice – types of data – modifying data in excel – creating Distributions from data– measures of location

**Unit II** Application of Business Analytics Machine Learning - Introduction and Concepts - Differentiating algorithmic and model based frameworks, Decision analytics. Descriptive analytics - Predictive analytics - Prescriptive analytics. Faculty of Arts Department of Business Administration

**Unit III** Decision support and Data Visualisation DSS- Executive and enterprise support- Automated decision support - Web analytics- Data mining -Applied artificial intelligence - Visual analysis: Data concepts – Data Dashboards - Data exploration & visualization - Scorecards

**Unit IV** Time Series and Forecasting Time series pattern – forecasting accuracy – moving averages and exponential smoothing - using regression analysis for forecasting – determining the best forecasting model to use - building good spreadsheet model – What-If analysis – some useful excel functions for modeling – auditing spreadsheet model – a simple maximization problem.

**Unit V** Data Analysis using R R Studio: Introduction – R data types and objects, reading and writing data - Data structures in R - R programming fundamentals - Advantages and disadvantages

## **COURSE OUTCOMES**

At the end this course, students will be able to

- Critically analyze the business problems especially solves business problems.
- Students can able to understand the applications of business analytics.
- They have get ideas on data visualization and time series analysis.

## **TEXT BOOKS**

1. Sandhya Kuruganti. Business Analytics: Applications to Consumer Marketing,

## **REFERENCES**

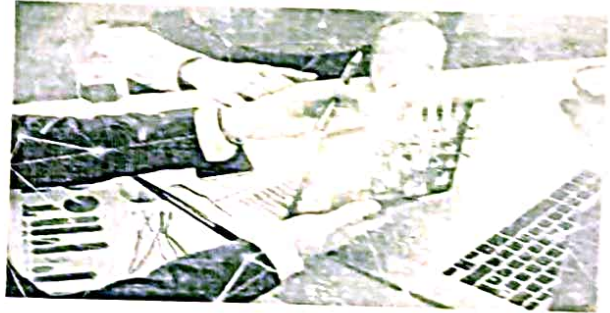
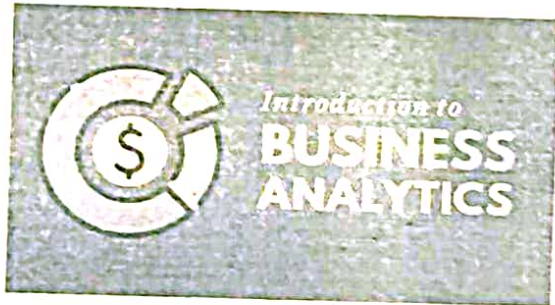
1. McGraw Hill, 2015



**PAAVAI ENGINEERING COLLEGE**  
(AUTONOMOUS)  
DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

**Training Course**

**INTRODUCTION TO BUSINESS ANALYTICS**



Date: 16.07.2018 to 21.07.2018

**COURSE INCHARGE**

1. Dr.GURUSAMY, PROFESSOR/MBA



**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

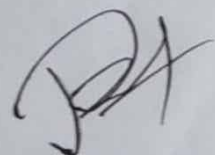
**DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION**

DATE: 25.06.2018

**CIRCULAR**

It is planned to conduct Five Days Training Course on "INTRODUCTION TO BUSINESS ANALYTICS" for Third semester students from 16.07.2018 to 21.07.2018 date. The interested students are asked to enroll their name to the course coordinator Dr.GURUSAMY, PROFESSOR/MBA on or before date.(Spot registration can also be permitted).

Course Co-ordinators: 1. MOHANA, AP/MBA

  
HOD/MBA

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# PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

## Value added course Attendance sheet

S:No	Student Name	16.07.18	18.07.18	19.07.18	20.07.18	21.07.18
1.	AARTHI.M	/	/	/	/	/
2	ANJU. D	/	AB	/	/	/
3	ATHIYAMAN. K(SQ)	/	/	/	/	/
4	BHARATHI. K(SQ)	/	/	AB	/	/
5	DINAKARAN.S	/	/	/	/	/
6	DINESH. A	/	/	AB	/	/
7	DINESH. M	/	AB	/	/	/
8	DIVAKAR. S	/	/	/	/	/
9	JANESHAPPRIYA. R	/	/	AB	/	/
10	JAYASURYA . M	/	/	/	/	/
11	JENISHA. P	/	/	/	/	/
12	JOSE PAUL VIMAL.B(SQ)	/	/	/	/	/
13	KARTHICK. K. N(SQ)	/	/	/	/	/
14	KEERTHIKA. R	/	/	/	/	/
15	KRISHNAKUMAR. S	/	/	/	/	/
16	KRISHNAMOORTHY. A	/	/	/	/	/
17	MALATHI. T	/	/	/	/	/
18	MANOJ. P(SQ)	/	/	/	/	/
19	MATHANGEE. A.S	/	/	/	/	/
20	NIJANTHAN. A	/	/	/	/	/

21	OVIYA. A. C	/	/	/	/	/
22	PARAMASIVAM. K	/	/	/	/	/
23	POONKODI. S(SQ)	/	/	/	/	/
24	PRATHIP KUMAR. P(SQ)	/	/	/	/	/
25	RAGAVI. S	/	AB	/	/	/
26	RANJITH. B. K(SQ)	/	/	/	/	/
27	RENUGA. R(SQ)	/	/	/	/	/
28	SARANYA. M	/	/	/	/	/
29	SENTHIL KUMAR. N	/	/	/	AB	/
30	SHARATH KUMAR. U	/	/	/	/	/
31	SUVETHA. K	/	/	/	/	/
32	VIJAY. A	/	/	/	/	/
33	JANANEE S	/	/	/	/	/

  
 Course Coordinator





## PAAVAI ENGINEERING COLLEGE

(Autonomous)

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

Department of Master of Business Administration

### CERTIFICATE

This is to certify

**Aarthi .M**

of Paavai Engineering College, studying in Second Year has successfully completed  
the Introduction to Business Analytics course from 16/07/2018 to 21/07/2018.

Course Coordinator

HOD

Principal

**COURSE OBJECTIVES**

To enable the students to

- obtain a working level of skills required for a JSP
- practice attention to Servlet
- documentation of Framework

**UNIT I JSP**

Java Server Pages – JSP scripting elements & directives- Working with variables scopes-Error Pages -JSP tag libraries (JSTL).

**UNIT II SERVLET**

Servlet- Servlet overview –using Tomcat – Start Tomcat -Start Browser and request Servlet – Servlet API – Handling HTTP requests and responses- Session tracking – Cookies;

**UNIT III FRAMEWORK**

Advanced Frameworks -Understanding Struts – MVC framework – Struts control flow – Building model view controller component –Case studies – Current trends.

**TOTAL PERIODS 30**

**COURSE OUTCOMES**

At the end this course, students will be able to

- understand a working level of skills required for a JSP
- implement Practice attention to detail
- analyze Documentation skills

**TEXT BOOKS**

1. Patrick Naughton and Herbert Schildt, Java 2: The complete Reference, Tata-McGraw Hill Publishing, 2nd Reprint, 2001.

**REFERENCES**

1. Paul Deitel and Harvey Deitel, "Java How to Program", 9th Edition, Prentice Hal, 2012.





# **PAAVAI ENGINEERING COLLEGE**

(Autonomous)

Pachal, Namakkal - 637 018.



## **DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS**

### **Value Added Course**

## **“JSP & SERVLET”**

### **Course Coordinator**

Mrs. M.Geetha, AP/MCA.,

Paavai Engineering College, Namakkal.

Date : 01.07.2019 to 05.07.2019

Venue: MCA Laboratory, Paavai Engineering College



# PAAVAI ENGINEERING COLLEGE

(Autonomous)

Pachal, Namakkal - 637-018.



## DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

Date : 17.06.2019

### CIRCULAR

It is planned to conduct **Five Days Training Course on JSP & SERVLET** Programming for our department students from 01.07.2019 to 05.07.2019. The interested students are asked to enroll their name in the course coordinator **Ms.M.Geetha, AP/MCA** on or before 01.07.2019. (spot registration can also be permitted)

Course Instructor : 1. Mrs.S.Devi, AP/MCA → S. Devi  
2. Mrs. D.Kokilarani, AP/MCA → D. Kokilarani

  
HOD/MCA

HEAD OF THE DEPARTMENT  
Master of Computer Application  
PAAVAI ENGINEERING COLLEGE  
NH-7, PACHAL (Po) Namakkal - 637 018.

Copt to

All the Students

Notice Board





# PAAVAI ENGINEERING COLLEGE

(Autonomous)  
Pachal, Namakkal - 637 018.



## DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

Date : 17.06.2019

### VALUE ADDED COURSE ATTENDANCE SHEET

Academic Year : 2019-2020

Name of the Course : JSP & SERVLET

S.No	Reg. Number	Name of thhe Student	01.07.19	02.07.19	03.07.19	04.07.19	05.07.19
1	19601001	Kavinbala.S	/	/	/	/	/
2	18601001	Aravindan.S	/	/	/	/	/
3	18601301	Anusha.S	/	/	/	/	/
4	18601302	Bharathi.V	/	/	/	/	/
5	18601303	Birundha.K	/	/	/	/	/
6	18601304	Devadharshini.R	/	/	/	/	/
7	18601305	Divya.B	/	/	/	/	/
8	18601306	Geethamanjari.S	/	/	/	/	/
9	18601307	Iswarya.A	/	/	/	/	/
10	18601309	Logapriya.G	/	/	/	/	/
11	18601310	Menaka.S	/	/	/	/	/
12	18601311	Nagajothi.R	/	/	/	/	/
13	18601312	Pandiyan.T	/	/	/	/	/
14	18601313	Rajesh.E	/	/	/	/	/
15	18601314	Ramya.S	/	/	/	/	/
16	18601315	Santhiyamani.M	/	/	/	/	/
17	18601317	Sumithra.V	/	/	/	/	/
18	18601318	Suriya.R	/	/	/	/	/
19	18601319	Varsini.M	/	/	/	/	/
20	17601302	Dhanasekar.S	/	/	/	/	/
21	17601303	Jayaprakash.G	/	/	/	/	/
22	17601305	Kirthika.K.R	/	/	/	/	/
23	17601306	Kokila.P	/	/	/	/	/
24	17601307	Manjula.P	/	/	/	/	/
25	17601309	Ambika.M	/	/	/	/	/
26	17601310	Rajpriya.S	/	/	/	/	/
27	17601311	Rashana.C	/	/	/	/	/
28	17601312	Sangeeth.J	/	/	/	/	/
29	17601315	Shreedhar.S	/	/	/	/	/
30	17601316	Siva.A	/	/	/	/	/
31	17601317	Sowmiya.G	/	/	/	/	/
32	17601318	Sowndharya.S	/	/	/	/	/
33	17601319	Subha.M	/	/	/	/	/
34	17601320	Sudha.K	/	/	/	/	/
35	17601321	Usha.V	/	/	/	/	/
36	17601322	Valarmathi.R	/	/	/	/	/
37	16601327	Nagalakshmi.V	/	/	/	/	/





# PAAVAI ENGINEERING COLLEGE

(Autonomous)

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

Department of Master of Computer Applications

## CERTIFICATE

This is to certify

**Manjula .P**

of Paavai Engineering College, studying in Third Year has successfully completed the  
JSP & SERVLET course from 01/07/2019 to 05/07/2019.

Course Coordinator

HOD

Principal