



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai

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ANGUCHETYPALAYAM, PANRUTI – 607 106.

ACADEMIC YEAR
2024-2025



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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ANGUCHETTYPALAYAM, PANRUTI – 607 106.

DEPARTMENT OF SCIENCE AND HUMANITIES

CIRCULAR

(2024 – 2025)

CIR. No.: SACET/S&H/CIR/11

Date: 26. 02. 2025

The Department of Science and Humanities in association with Computer Science and Engineering & Computer Science and Engineering (AIML) are planned to conduct a Value Added Courses on “**Java Web-Development** “ for the benefit of First year B.E Computer Science and Engineering & Computer Science and Engineering (AIML) students. The Course is scheduled from 03.03.25 to 07.03.25 (5 Days)

All the Students must attend all the classes without fail. The following faculty members are assigned to handle the course.

S.No	Name of the Faculty	Designation
1	Ms. V. Keerthana	Assistant Professor
2	Ms. Guani A. Sabi	Assistant Professor

Time: 9.30 am to 4.30 pm

Venue: Computer Laboratory 5 & Conference Hall

HOD

K. S. S. S.
27/02/25

Head of the Department
Department of Science and Humanities
St. Anne's College of Engineering and Technology
Anguchetty Palayam, Panruti - 607 106

R. Aradiadass
27.2.25

PRINCIPAL

Dr. R. AROKIADASS, M.E., Ph.D.,
Principal,

St. Anne's College of Engineering & Technology,

ANGUCHETTYPALAYAM,

Siruvathur-(Post), Panruti-(T. A.),

Cuddalore-(Dist), Pin: 607 110.

Copy to:

1. Secretary
2. All HODs
3. Administrative Officer
4. File



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DEPARTMENT OF SCIENCE AND HUMANITIES

Organizes

Five Days Value- Added Course

on

“JAVA WEB-DEVELOPMENT”

Resource Persons



Ms. V. Keerthana, M.E
Assistant Professor
Department of CSE



Ms. Guani A. Sabi, M.E
Assistant Professor
Department of CSE

Date: 03.03.25 to 07.03.25

Venue: Computer Lab 5 & Conference Hall



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DEPARTMENT OF SCIENCE AND HUMANITIES

SYLLABUS FOR VALUE ADDED COURSE ON JAVA WEB-DEVELOPMENT

COURSE OBJECTIVE:

- To Value added Course that includes in-depth understanding of Java.
- To classify web development in order to create websites and apps.
- To learn how to seamlessly work between the web interface and the back-end
- To connect them for stellar results. By the end of the course, students will be able.
- To create a small-scale web application combining java and REACT NATIVE

COURSE CONTENT:

Day 1: Java Basics

- Introduction to Java & OOP
- Data types, control structures (loops, if-else)
- Functions & methods
- Exception handling & basic file handling

Day 2: Spring Boot Basics

- Introduction to Spring Boot & REST APIs
- Setting up a Spring Boot project
- Creating a simple REST API (GET, POST)
- Introduction to JPA & database integration

Day 3: React Basics

- Introduction to React & JSX
- Components, Props, and State
- React Router for navigation
- Creating a simple UI



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Day 4: Connecting React & Spring Boot

- Fetching data from the Spring Boot API
- Handling forms & user input in React
- CRUD operations with React & Spring Boot
- Basic authentication implementation (optional)

Day 5: Mini Website Development

- Setting up the project structure
- Implementing core features (CRUD, navigation)
- Final testing & deployment

COURSE OUTCOME:

By the end of the course, students will have:

- **A solid understanding of Java** (OOP concepts, exception handling, collections).
- **Experience with Spring Boot** (Building REST APIs, database integration with JPA & Hibernate).
- **Hands-on knowledge of React** (Component-based UI, state management, routing).
- **A fully functional mini full-stack website** connecting React frontend with a Spring Boot backend.
- **Deployed project** (Frontend & backend hosted on platforms like Netlify/Vercel & Railway/Render)..

M. Karthi
13/03/25
CO-ORDINATOR

K & 13/03/2025

HOD

Head of the Department
Department of Science and Humanities
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist), Pin: 607 106



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DEPARTMENT OF SCIENCE AND HUMANITIES

VALUE ADDED COURSE ON JAVA WEB-DEVELOPMENT

Student Registration List

DEPT: CSE&AIML

DATE: 3.03.25 to 7.03.25

S.NO	REGISTER. NO	NAME OF THE STUDENTS
1	422124104001	Akash A
2	422124104002	Anitha T
3	422124104003	Arunmozhidhevan A
4	422124104004	Athithi R
5	422124104005	Balaji A
6	422124104006	Barath P
7	422124104007	Barathraj R
8	422124104008	Deepika R
9	422124104009	Devanand R
10	422124104010	Dhanushkumar T
11	422124104011	Dharani E
12	422124104012	Dharunraj S
13	422124104013	Dhinesh K
14	422124104014	Durga S
15	422124104015	Gokila R
16	422124104016	Gowtham G
17	422124104017	Harini S
18	422124104018	Jagan G
19	422124104019	Janani C
20	422124104020	Jaswinth E
21	422124104021	Jeeva V
22	422124104022	Joseph Sathiya A
23	422124104023	Madhusri A
24	422124104024	Maheswari I



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25	422124104025	Manju Parkavi E
26	422124104026	Mathivanan S
27	422124104027	Mathiyarasan U
28	422124104028	Meenatchi M
29	422124104030	Pooja E
30	422124104032	Praveena N
31	422124104033	Ragulgandhi R
32	422124104034	Rathanavel K
33	422124104035	Rithik Roshan D
34	422124104036	Roshini K
35	422124104037	Sakarthan E
36	422124104038	Sanjay Ramasamy T
37	422124104039	Santhoshkumar.M
38	422124104040	Selvakumar S
39	422124104041	Shanmugapriya S
40	422124104042	Sri Rama Dhesigan A
41	422124104043	Subitha K
42	422124104044	Sumathi M
43	422124104045	Vaitheeswari V
44	422124104046	Vijay V
45	422124104047	Vimalraj P
46	422124148001	Aristatil S
47	422124148002	Arokiyanisha L
48	422124148004	Balaji P
49	422124148005	Balajothi S
50	422124148006	Gayathripriya S
51	422124148007	Gokul S
52	422124148008	Gokulramana E
53	422124148009	Gopinath R
54	422124148010	Guruprasanth B
55	422124148011	Hafina J
56	422124148012	Hariharan G
57	422124148013	Jagadheesh C



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58	422124148014	Jeeva J
59	422124148015	John David A
60	422124148016	Justin T
61	422124148017	Kamali A
62	422124148018	Karan K
63	422124148019	Karthikeyan P
64	422124148020	Karthikeyan S
65	422124148021	Layanya K
66	422124148022	Lokesh R
67	422124148023	Nithishkumar V
68	422124148024	Nithiya N
69	422124148025	Parthipan S
70	422124148026	Pooja M
71	422124148027	Praicy Gethsiyal A
72	422124148028	Purushothaman M
73	422124148029	Saravanan N
74	422124148030	Seenuvasan V
75	422124148031	Sherlin Sheeba T
76	422124148032	Shipana N
77	422124148033	Siddharth R J
78	422124148034	Siva K
79	422124148035	Vairavan S
80	422124148036	Velrajan M
81	422124148037	Yasararafath R
82	422124148038	Pugazharasan N

M. Kavitha
13/3/21
CO-ORDINATOR

K. S. S.
13/03/2021
HOD
Head of the Department
Department of Science and Humanities
St. Anne's College of Engineering and Technology
Anguchettipalayam, Panruti-(T.k) Cuddalore-(Dist.), Pin: 607 106

65	422124148021	Layanya K	K. Lavanya	K. Lavanya	K. Lavanya	K. Lavanya	K. Lavanya	K. Lavanya	K. Lavanya	K. Lavanya	K. Lavanya	AB	AB
66	422124148022	Lokesh R	R. Lokesh	R. Lokesh	R. Lokesh	R. Lokesh	AB	AB	R. Lokesh	R. Lokesh	R. Lokesh	R. Lokesh	R. Lokesh
67	422124148023	Nithishkumar V	V. Nithishkumar	V. Nithishkumar	V. Nithishkumar	V. Nithishkumar	V. Nithishkumar	V. Nithishkumar	V. Nithishkumar	V. Nithishkumar	V. Nithishkumar	V. Nithishkumar	V. Nithishkumar
68	422124148024	Nithiya N	Nithiya N	Nithiya N	Nithiya N	Nithiya N	Nithiya N	Nithiya N	Nithiya N	Nithiya N	Nithiya N	Nithiya N	Nithiya N
69	422124148025	Parthipan S	Parthi S	Parthi S	Parthi S	Parthi S	Parthi S	Parthi S	Parthi S	Parthi S	Parthi S	Parthi S	Parthi S
70	422124148026	Pooja M	M. P. Pooja	M. P. Pooja	M. P. Pooja	M. P. Pooja	M. P. Pooja	M. P. Pooja	M. P. Pooja	M. P. Pooja	M. P. Pooja	M. P. Pooja	M. P. Pooja
71	422124148027	Praicy Gethsiyal A	A. Praicy	A. Praicy	AB	AB	A. Praicy	A. Praicy	A. Praicy	A. Praicy	A. Praicy	A. Praicy	A. Praicy
72	422124148028	Purushothaman M	M. Purushothaman	M. Purushothaman	M. Purushothaman	M. Purushothaman	M. Purushothaman	M. Purushothaman	M. Purushothaman	M. Purushothaman	M. Purushothaman	M. Purushothaman	M. Purushothaman
73	422124148029	Saravanan N	Sarav	Sarav	Sarav	Sarav	Sarav	Sarav	Sarav	Sarav	Sarav	Sarav	Sarav
74	422124148030	Seenuvasan V	V. Seenuvasan	V. Seenuvasan	V. Seenuvasan	V. Seenuvasan	AB	AB	V. Seenuvasan	V. Seenuvasan	V. Seenuvasan	AB	V. Seenuvasan
75	422124148031	Sherlin Sheeba T	T. Sherlin	T. Sherlin	T. Sherlin	T. Sherlin	T. Sherlin	T. Sherlin	T. Sherlin	T. Sherlin	T. Sherlin	T. Sherlin	T. Sherlin
76	422124148032	Shipana N	N. Shipana	N. Shipana	AB	AB	AB	AB	N. Shipana	N. Shipana	N. Shipana	N. Shipana	N. Shipana
77	422124148033	Siddharth R J	R. Siddharth	R. Siddharth	R. Siddharth	R. Siddharth	R. Siddharth	R. Siddharth	R. Siddharth	R. Siddharth	R. Siddharth	R. Siddharth	R. Siddharth
78	422124148034	Siva K	K. Siva	K. Siva	K. Siva	K. Siva	K. Siva	K. Siva	K. Siva	K. Siva	K. Siva	AB	K. Siva
79	422124148035	Vairavan S	S. Vairavan	S. Vairavan	S. Vairavan	S. Vairavan	S. Vairavan	S. Vairavan	S. Vairavan	S. Vairavan	S. Vairavan	S. Vairavan	S. Vairavan
80	422124148036	Velrajan M	M. Velrajan	M. Velrajan	M. Velrajan	M. Velrajan	M. Velrajan	M. Velrajan	AB	AB	AB	AB	AB
81	422124148037	Yasararafath R	R. Yasararafath	R. Yasararafath	R. Yasararafath	R. Yasararafath	R. Yasararafath	R. Yasararafath	R. Yasararafath	R. Yasararafath	R. Yasararafath	R. Yasararafath	R. Yasararafath
82	422124148038	Pugazharasan N	N. Pugazharasan	N. Pugazharasan	N. Pugazharasan	N. Pugazharasan	N. Pugazharasan	N. Pugazharasan	N. Pugazharasan	N. Pugazharasan	N. Pugazharasan	N. Pugazharasan	N. Pugazharasan

M. Kavitha
7/3/25
EVENT COORDINATOR

K. Siva
01/03/2025

HOD
Head of the Department
Department of Science and Humanities
St. Anne's College of Engineering and Technology
Anguchettyalayan, Panruti (Tk) Cuddalore (Dist.), Pin: 607 106



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DEPARTMENT OF SCIENCE AND HUMANITIES

VALUE ADDED COURSE ON JAVA WEB-DEVELOPMENT

ASSESSMENT MARKS

DEPT: CSE &AIML

DATE: 3.03.2025 to 7.03.2025

S.NO	REGISTER. NO	STUDENT NAME	MARKS
1	422124104001	Akash A	82
2	422124104002	Anitha T	89
3	422124104003	Arunmozhidhevan A	90
4	422124104004	Athithi R	85
5	422124104005	Balaji A	87
6	422124104006	Barath P	81
7	422124104007	Barathraj R	83
8	422124104008	Deepika R	87
9	422124104009	Devanand R	81
10	422124104010	Dhanushkumar T	82
11	422124104011	Dharani E	95
12	422124104012	Dharunraj S	80
13	422124104013	Dhinesh K	81
14	422124104014	Durga S	86
15	422124104015	Gokila R	AB
16	422124104016	Gowtham G	87
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20	422124104020	Jaswinth E	AB
21	422124104021	Jeeva V	88
22	422124104022	Joseph Sathiya A	95
23	422124104023	Madhusri A	96
24	422124104024	Maheswari I	85
25	422124104025	Manju Parkavi E	94
26	422124104026	Mathivanan S	80



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28	422124104028	Meenatchi M	90
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64	422124148020	Karthikeyan S	90
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81	422124148037	Yasararafath R	90
82	422124148038	Pugazharasan N	80

M. Kajitha
13/02/2025
CO-ORDINATOR

K. S. S. S. S.
13/02/2025
Head of the Department
Department of Science and Humanities
St. Anne's College of Engineering and Technology
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DEPARTMENT OF SCIENCE AND HUMANITIES

VALUE ADDED COURSE REPORT ON JAVA WEB DEVELOPMENT

The Department of Science and Humanities in association with Computer Science Engineering and Computer Science Engineering (AIML) conducted a Value-Added Course on “Java Web-Development” for the benefit of First Year CSE &AIML students. The course is scheduled from 03.03.25 to 07.03.25. The following faculty members were handled the course.

S.No.	Name of the Faculty	Designation
1	Ms. V. Keerthana	Assistant Professor
2	Ms. Guani A. Sabi	Assistant Professor

Introduction:

Java is one of the most popular programming languages used in web development, mobile development (especially Android), and enterprise applications.

Day 1

Students were learnt about the Basics of Java

1. Java Syntax:

Java is a statically typed language, which means variables must be declared with a type (e.g., int, String, boolean) before they are used. Java programs are structured in a class-based format. Each Java program must contain at least one class. Java supports a wide range of data types:

Primitive data types: int, char, float, double, boolean, byte, short, long

Non-primitive data types: String, arrays, classes, etc.

In Java, exceptions are handled using try, catch, and finally blocks.

Java is an object-oriented programming language, meaning it uses classes and objects.

Class: A blueprint for objects.

Object: An instance of a class.

Encapsulation: Bundling data (variables) and methods that operate on that data into a single unit or class.

Inheritance: The ability of a new class to inherit properties and behaviors (methods) from an existing class.

Polymorphism: The ability to take many forms, typically by overriding methods.



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Day 2

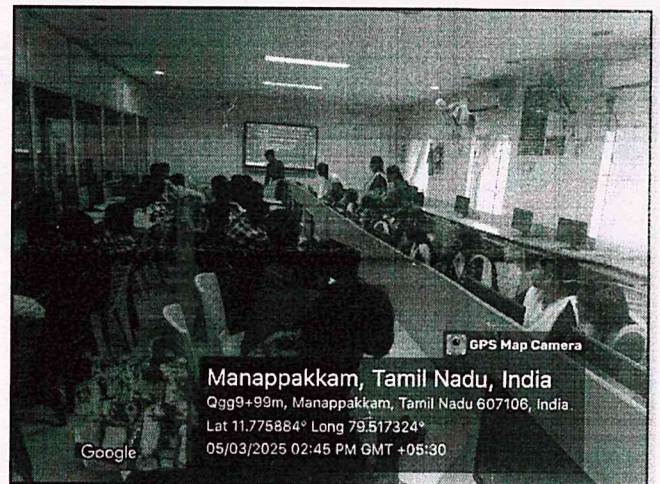
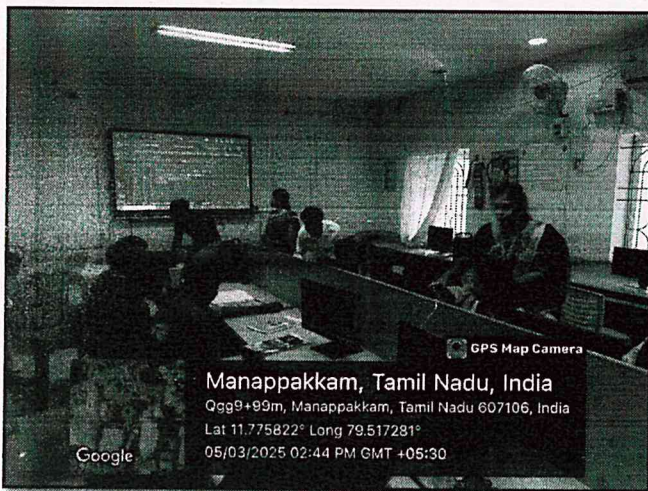
Students were given program to practice the concepts they had learned. They were guided step-by-step through the process of setting up the software and writing the necessary code to make the icons using JAVA. This hands-on experience allowed them to grasp the connection between software and handset.

Day 3

Attendees were taught how to upload the code onto the Android mobile. They learned about the compilation and uploading process, and how to troubleshoot any errors that might occur. After uploading, participants tested the application to observe the results. They followed step-by-step instructions were given.

Day 4 and Day 5

The students discussed real-world Android applications. Examples included food order systems. Illustrating how basic concepts could be expanded into complex projects.



The value-added course was concluded with a valedictory function presided over by Ms. Manju Parkavi. The event in charge, Ms. V. Keerthana, AP/CSE, welcomes the gathering and thanks the management for giving permission for the arrangement of such a valuable program, as well as the trainers for providing our students with practical knowledge in JAVA in our core areas. The session was followed by a feedback session. Overall, the workshop was so enlightening, and it must have sparked something within students to get innovative ideas and get involved in real-time projects. Totally 82 students were attended the course.

M. Kavitha
COORDINATOR

K. S. S. S. S.
13/3/25
HOD
Head of the Department
Department of Science and Humanities
St. Anne's College of Engineering and Technology
Anguchettipalayam, Panruti-(T.k) Cuddalore-(Dist.), Pin: 607 106

R. Aradiyan
PRINCIPAL 13/3/25
Dr. R. AROKIADASS, M.E., Ph.D.,
Principal,
St. Anne's College of Engineering & Technology
ANGUCHETTPALAYAM,
Siruvathur-(Post), Panruti-(T. k.)



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FEEDBACK ON VALUE ADDED COURSE

Department: S&H (CSE & AIML)

Period: 2024-2028

Title: Java Web-Development

Date: 3.03.25 to 7.03.25

Q.No	Question	Student Count	Credit By Category					Total Credit	Credit Secured	Percentage
			5	4	3	2	1			
1	Course plan	79	20	40	18	1	0	395	316	80%
2	Training duration	79	29	41	9	0	0	395	336	85%
3	Interactive approach	79	32	38	8	1	0	395	338	86%
4	Mode of presentation	79	30	34	14	1	0	395	330	84%
5	The course material handed out was adequate	79	27	41	9	2	0	395	330	84%
6	Usage of teaching aids and ICT in the class by faculty to facilitate teaching	79	38	34	7	0	0	395	347	88%
7	The course exposed you to new knowledge and practices	79	24	38	16	1	0	395	322	82%
8	Were objectives of the course clear to you?	79	26	43	10	0	0	395	332	84%
9	The course contents met with your expectations	79	36	32	11	0	0	395	341	86%
10	How would you rate the overall course content?	79	29	38	10	2	0	395	331	84%

M. Karitha
PREPARED BY

K. S. S. S. S.
12/3/25
VERIFIED BY

Head of the Department
Department of Science and Humanities
St. Anne's College of Engineering and Technology
Anguchettipalayam, Panruti-(T), Cuddalore-(Dist), Pin: 607 106

R. Arokiadass
12/3/25
APPROVED BY
DR. R. AROKIADASS, M.E., Ph.D.,
Principal,
St. Anne's College of Engineering & Technology,
ANGUCHETTPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
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5 - DAY VALUE-ADDED COURSE ON "JAVA WEB-DEVELOPMENT"

*Organised by
Department of Science and Humanities*

Certificate of Participation

This is to certify that / Mr.....*JAGAN..G*.....of CSE (First Year) attended the 5-Day Value-Added Course on "*JAVA WEB-DEVELOPMENT*" organised by the Department of Science and Humanities, from 03.03.2025 to 07.03.2025 at St. Anne's College of Engineering and Technology, Panruti, Cuddalore - 607 106.

M. Kavitha

Dr.M.Kavitha Mayilvaganan
Co-ordinator

K. Saravanan

Mr.K.Saravanan
H.O.D

R. Arokiadass

Dr.R.Arokiadass
Principal



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Department of Science and Humanities*

Certificate of Participation

This is to certify that / Ms.....*SUBITHA..K*.....of CSE (First Year) attended the 5-Day Value-Added Course on "*JAVA WEB-DEVELOPMENT*" organised by the Department of Science and Humanities, from 03.03.2025 to 07.03.2025 at St. Anne's College of Engineering and Technology, Panruti, Cuddalore – 607 106.

M. Kavitha

Dr.M.Kavitha Mayilvaganan
Co-ordinator

K. Saravanan

Mr.K.Saravanan
H.O.D

R. Arokiadass

Dr.R.Arokiadass
Principal



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Department of Science and Humanities*

Certificate of Participation

This is to certify that / Ms.....*MANJU..PARKAVI..E*.....of CSE (First Year) attended the 5-Day Value-Added Course on "*JAVA WEB-DEVELOPMENT*" organised by the Department of Science and Humanities, from 03.03.2025 to 07.03.2025 at St. Anne's College of Engineering and Technology, Panruti, Cuddalore - 607 106.

M. Kavitha

Dr.M.Kavitha Mayilvaganan
Co-ordinator

K. Saravanan

Mr.K.Saravanan
H.O.D

R. Arokiadass

Dr.R.Arokiadass
Principal



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5 - DAY VALUE-ADDED COURSE ON "JAVA WEB-DEVELOPMENT"

*Organised by
Department of Science and Humanities*

Certificate of Participation

This is to certify that / Mr.....*GURUPRASANTH..B*.....of CSE (AIML)
(First Year) attended the 5-Day Value-Added Course on "*JAVA WEB-DEVELOPMENT*" organised
by the Department of Science and Humanities, from 03.03.2025 to 07.03.2025 at St. Anne's College of
Engineering and Technology, Panruti, Cuddalore - 607 106.

M. Kavitha

Dr.M.Kavitha Mayilvaganan
Co-ordinator

K. Saravanan

Mr.K.Saravanan
H.O.D

R. Arakiadass

Dr.R.Arakiadass
Principal



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Organised by
Department of Science and Humanities

Certificate of Participation

This is to certify that / Ms.....*AROKIYANISHA...L*.....of CSE (AIML) (First Year) attended the 5-Day Value-Added Course on "*JAVA WEB-DEVELOPMENT*" organised by the Department of Science and Humanities, from 03.03.2025 to 07.03.2025 at St. Anne's College of Engineering and Technology, Panruti, Cuddalore - 607 106.

M. Kavitha

Dr.M.Kavitha Mayilvaganan
Co-ordinator

K. Saravanan

Mr.K.Saravanan
H.O.D

R. Arokiadass

Dr.R.Arokiadass
Principal



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5 - DAY VALUE-ADDED COURSE ON "JAVA WEB-DEVELOPMENT"

Organised by
Department of Science and Humanities

Certificate of Participation

This is to certify that / Ms.....*SHERLIN..SHEEBA..T*.....of CSE (AIML)
(First Year) attended the 5-Day Value-Added Course on "*JAVA WEB-DEVELOPMENT*" organised
by the Department of Science and Humanities, from 03.03.2025 to 07.03.2025 at St. Anne's College of
Engineering and Technology, Panruti, Cuddalore - 607 106.

M. Kavitha

Dr.M.Kavitha Mayilvaganan
Co-ordinator

K. Saravanan

Mr.K.Saravanan
H.O.D

R. Arokiadass

Dr.R.Arokiadass
Principal



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DEPARTMENT OF SCIENCE AND HUMANITIES

CIRCULAR

(2024 – 2025)

CIR. No.: SACET/S&H/CIR/12

Date: 26. 02. 2025

The Department of Science and Humanities in association with Electrical and Electronics Engineering is planned to conduct a Value Added Courses on “**Domestic and Industrial wiring**” for the benefit of First year B.E Electrical and Electronics Engineering students. The Course is scheduled from 03.03.25 to 07.03.25 (5 Days)

All the Students must attend all the classes without fail. The following faculty members are assigned to handle the course.

S.No	Name of the Faculty	Designation
1	Dr. V. Shanmugam	Associate Professor
2	Mrs. J. Arul Martinal	Assistant Professor

Time: 9.30 am to 4.30 pm

Venue: Engineering Practices Laboratory (Electrical)

K. S. Shanmugam
HOD 27/2/25

Head of the Department
Department of Science and Humanities
St. Anne's College of Engineering and Technology
Anguchettipalayam, Panruti-(T.k) Cuddalore-(Dist), Pin: 607 106

R. Aradi
27.2.25
PRINCIPAL

Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology,
ANGUCHETTPALAYAM,
Siravathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 110

Copy to:

1. Secretary
2. All HODs
3. Administrative Officer
4. File



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DEPARTMENT OF SCIENCE AND HUMANITIES

Organizes

Five Days Value-Added Course

on

**“DOMESTIC AND INDUSTRIAL
WIRING”**

Resource Persons



Dr. V. Shanmugam, M.E, Ph.D

Associate Professor

Department of EEE

Mrs. J. Arul Martinal, M.E

Assistant Professor

Department of EEE

Date: 03.03.25 to 07.03.25

Venue: Engineering Practices Laboratory (Electrical)



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DEPARTMENT OF SCIENCE AND HUMANITIES

SYLLABUS FOR VALUE ADDED COURSE ON DOMESTIC AND INDUSTRIAL WIRING

COURSE OBJECTIVES:

1. To impart fundamental knowledge of electrical wiring systems used in domestic and industrial installations.
2. To develop skills in designing and implementing wiring layouts according to standard electrical codes and safety regulations.
3. To provide hands-on training in installation, maintenance, and troubleshooting of electrical wiring systems.
4. To instil awareness of energy efficiency, cost-effectiveness, and sustainability in wiring practices.
5. To ensure competence in interpreting wiring diagrams, load calculations, and circuit protection mechanisms.

COURSE CONTENT

DAY 1: BASIC TOOLS & SAFETY:

Introduction to Electricity Ohms Law, Resistance Electric Sign & Symbols. Familiarization with Trade. Safety Precautions, Elementary First Aid, Identification of different hand tool their specifications- Care and Maintenance of Hand Tools.

DAY 2: ELECTRIC ACCESSORIES & METERS:

Identification of various type of wires used for house wiring, motor winding in electrical Appliances, their uses and sizes. Common Electric Accessories and Fixture with their Specifications. Installation of different types of electric meter and instruments (Portable type Panel/Board Type) Function and uses of Ampere Meter, - Voltmeter, Energy Meter, Wattmeter and Megger.

DAY 3: PROTECTIVE DEVICES:

Understanding of fuses and circuit (Kit-Kat Type, H.R.C. Fuse, Cartridge breakers (Kit-Kat Type, H.R.C.c Fuse, M.C.B., ELB) Fuse, Cartridge Fuse, M.C.B., ELCB). Demonstration and familiarization of various types of fuses and ckt breakers. Purpose of Earthing, Methods of Testing of earthing using Earth Tester Earthing (Plate & Pipe Earthing) Selection of right Type of earthwire, Indian electricity rules for earthing.



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DAY4: COMPLETE HOUSE-WIRING LAYOUT:

Practice of wiring Maintenance of institute, hostel, residential building. Layout and repairing of Work shop electrical installation. Fault finding practice

DAY 5: DOMESTIC APPLIANCES:

Working principles and circuits of common domestic equipment and appliances. Calling Bell, Alarms, Buzzer, Electric Iron, Heater, Light, Electric Kettle, Heater I Immersion Heater, Hot Plate, Oven, Geyser, Cooking range, Mixer, Washing machine, Motor Pump set, etc. Concept of Neutral and Earth.

COURSE OUTCOMES:

1. Identify and differentiate between various wiring systems (e.g., conduit, surface, concealed) used in domestic and industrial settings.
2. Interpret and prepare electrical wiring diagrams and layout plans for both residential and industrial buildings.
3. Perform safe and effective installation of domestic and industrial wiring systems following national/international electrical codes (e.g., NEC, IEC).
4. Apply cost estimation techniques for wiring projects considering labor, materials, and energy efficiency.
5. Understand and implement safety protocols to prevent electrical hazards during wiring activities.

M. Karanth
COORDINATOR

K. S. K.
13/03/2025
HOD

Head of the Department
Department of Science and Humanities
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.), Pin: 607 106



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DEPARTMENT OF SCIENCE AND HUMANITIES

VALUE ADDED COURSE ON DOMESTIC AND INDUSTRIAL WIRING

Student Registration List

DEPT: EEE

DATE: 3.03.25 to 7.03.25

S.NO	REGISTER. NO	NAME OF THE STUDENTS
1	422124105001	Agasriya K
2	422124105002	Arulselvam A
3	422124105003	Chrais Deno Peny P
4	422124105004	Elavarasan K
5	422124105005	Giri G
6	422124105006	Gowtham T
7	422124105007	Hari Pooja G
8	422124105008	Joe Prince A
9	422124105009	Kalaiyaran K
10	422124105010	Karthik P
11	422124105011	Lavanya M
12	422124105012	Mohamed Ismail H
13	422124105013	Praveen N
14	422124105014	Priyadharshini G
15	422124105015	Santhoshkumar L

M. Kavitha
CO-ORDINATOR

K. S. L.
13/03/2025
HOD
Head of the Department
Department of Science and Humanities
St. Anne's College of Engineering and Technology
Anguchettipalayam, Panruti-(T.k) Cuddalore-(Dist.), Pin: 607 106



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DEPARTMENT OF SCIENCE AND HUMANITIES

Value Added Course Attendance Sheet

Department: **EEE**

Period: **2024-2025**

Title: **DOMESTIC AND INDUSTRIAL WIRING**

Date: **03.03.2025 to 07.03.2025**

S.NO	REGISTER NO	NAME OF THE STUDENTS	03.03.2025		04.03.2025		05.03.2025		06.03.2025		07.03.2025	
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1	422124105001	Agasriya K	Jk. Agasriya	Jk. Agasriya	Jk. Agasriya	Jk. Agasriya	Jk. Agasriya	Jk. Agasriya	Jk. Agasriya	Jk. Agasriya	Jk. Agasriya	Jk. Agasriya
2	422124105002	Arulselvam A	A. Arul	A. Arul	AB	AB	A. Arul	A. Arul	A. Arul	A. Arul	A. Arul	A. Arul
3	422124105003	Chrais Deno Peny P	P. Chrais	P. Chrais	P. Chrais	P. Chrais	P. Chrais	P. Chrais	P. Chrais	P. Chrais	P. Chrais	P. Chrais
4	422124105004	Elavarasan K	AB	AB	K. Elavar	K. Elavar	K. Elavar	K. Elavar	K. Elavar	K. Elavar	K. Elavar	K. Elavar
5	422124105005	Giri G	G. Giri	G. Giri	G. Giri	G. Giri	AB	AB	G. Giri	G. Giri	G. Giri	G. Giri
6	422124105006	Gowtham T	T. Gowtham	T. Gowtham	T. Gowtham	T. Gowtham	T. Gowtham	T. Gowtham	T. Gowtham	T. Gowtham	T. Gowtham	T. Gowtham
7	422124105007	Hari Pooja G	G. Hari Pooja	G. Hari Pooja	G. Hari Pooja	G. Hari Pooja	G. Hari Pooja	G. Hari Pooja	G. Hari Pooja	G. Hari Pooja	G. Hari Pooja	G. Hari Pooja
8	422124105008	Joe Prince A	A. Joe	A. Joe	A. Joe	A. Joe	A. Joe	A. Joe	A. Joe	A. Joe	A. Joe	A. Joe
9	422124105009	Kalaiyarasan K	K. Kalai	K. Kalai	K. Kalai	K. Kalai	K. Kalai	K. Kalai	K. Kalai	K. Kalai	K. Kalai	K. Kalai
10	422124105010	Karthik P	P. Karthik	P. Karthik	P. Karthik	P. Karthik	P. Karthik	P. Karthik	P. Karthik	P. Karthik	P. Karthik	P. Karthik
11	422124105011	Lavanya M	M. Lavanya	M. Lavanya	M. Lavanya	M. Lavanya	M. Lavanya	M. Lavanya	M. Lavanya	M. Lavanya	M. Lavanya	M. Lavanya
12	422124105012	Mohamed Ismail H	H. Ismail	H. Ismail	H. Ismail	H. Ismail	H. Ismail	H. Ismail	H. Ismail	H. Ismail	AB	AB
13	422124105013	Praveen N	N. Praveen	N. Praveen	N. Praveen	N. Praveen	N. Praveen	N. Praveen	N. Praveen	N. Praveen	N. Praveen	N. Praveen
14	422124105014	Priyadharshini G	G. Priya	G. Priya	G. Priya	G. Priya	G. Priya	G. Priya	G. Priya	G. Priya	G. Priya	G. Priya
15	422124105015	Santhoshkumar L	L. Santhosh	L. Santhosh	Santhosh	Santhosh	Santhosh	Santhosh	AB	AB	Santhosh	Santhosh

M. Karthi
13/3/25
EVENT COORDINATOR

K. Karthi
07/03/2025
HOD
Head of the Department
Department of Science and Humanities
St. Anne's College of Engineering and Technology
Anguchettipalayam, Panruti-(Tk.) Cuddalore-(Dist.), Pin: 607 106



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DEPARTMENT OF SCIENCE AND HUMANITIES

VALUE ADDED COURSE ON DOMESTIC AND INDUSTRIAL WIRING

ASSESSMENT MARKS

DEPT: EEE

DATE: 3.03.2025 to 7.03.2025

S.NO	REGISTER. NO	STUDENT NAME	MARKS
1	422124105001	Agasriya K	85
2	422124105002	Arulselvam A	86
3	422124105003	Chrais Deno Peny P	90
4	422124105004	Elavarasan K	88
5	422124105005	Giri G	80
6	422124105006	Gowtham T	83
7	422124105007	Hari Pooja G	89
8	422124105008	Joe Prince A	90
9	422124105009	Kalaiyaran K	89
10	422124105010	Karthik P	86
11	422124105011	Lavanya M	91
12	422124105012	Mohamed Ismail H	80
13	422124105013	Praveen N	82
14	422124105014	Priyadharshini G	89
15	422124105015	Santhoshkumar L	83

M. Karthi

CO-ORDINATOR

K. S. S. / 13/03/2025

HOD

Head of the Department

Department of Science and Humanities
St. Anne's College of Engineering and Technology
Anguchettipalayam, Panruti-(T.k) Cuddalore-(Dist.), Pin: 607 106



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DEPARTMENT OF SCIENCE AND HUMANITIES
VALUE ADDED COURSE REPORT ON
DOMESTIC AND INDUSTRIAL WIRING

The Department of Science and Humanities in association with Electrical and Electronics Engineering conducted a Value-Added Course on “**Domestic and Industrial Wiring**” for the benefit of First Year EEE students. The course is scheduled from 03.03.25 to 07.03.25. The following faculty members were handled the course.

S.NO	Name of the Faculty	Designation
1	Dr. V. Shanmugam	Associate Professor
2	Mrs. J. Arul Martinal	Assistant Professor

This value-added course focuses on understanding the fundamentals of electrical engineering, which is crucial for anyone interested in the field. The value-added courses cover the following topics

Introduction:

Wiring systems are essential for distributing electrical power within buildings. They ensure safe and efficient delivery of electricity to appliances, machinery, and lighting. Wiring can be broadly categorized into **domestic wiring** and **industrial wiring** based on the application.

Domestic Wiring

Definition:

Domestic wiring refers to the electrical wiring system installed in homes and residential buildings.

Key Features:

- Operates at standard voltages (usually 110V–240V depending on the country).
- Designed for low to moderate power loads (lighting, fans, TVs, kitchen appliances).
- Emphasizes safety, aesthetics, and ease of access for maintenance.
- Common wiring methods include cleat wiring, conduit wiring, and casing and capping.

Common Types:

- **Ring Circuit:** Power is supplied in a loop, common in UK homes.
- **Radial Circuit:** Power is supplied from a single point, typical in most countries.



2. Industrial Wiring

Definition:

Industrial wiring is used in factories, workshops, and plants to power heavy machinery and equipment.

Key Features:

- Designed for high voltage and current loads.
- Uses three-phase power supply for efficiency.
- Wiring is robust, with heavy-duty insulation, often enclosed in metallic conduits.
- Prioritizes durability, safety, and compliance with industry standards.

Common Types:

- **Conduit Wiring (Steel/PVC):** Protects wires from mechanical damage.
- **Bus Bar Systems:** Used for distributing large currents.

Comparison Table:

Feature	Domestic Wiring	Industrial Wiring
Voltage	110V – 240V	400V and above
Load Capacity	Low to moderate	High
Wiring Material	PVC-insulated wires	XLPE, armored cables
Safety Standards	Basic residential codes	Strict industrial codes
Maintenance	Easy and accessible	Requires trained personnel

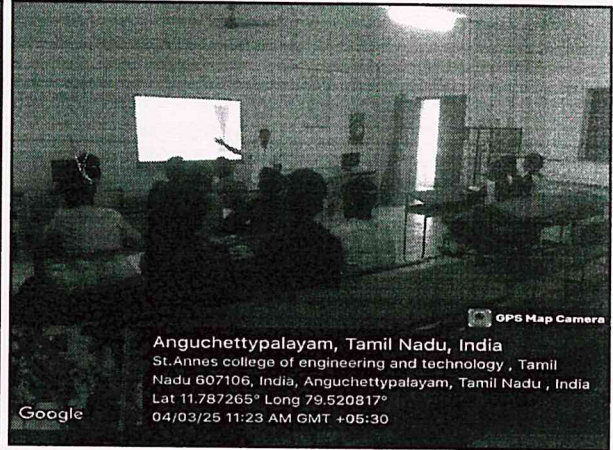
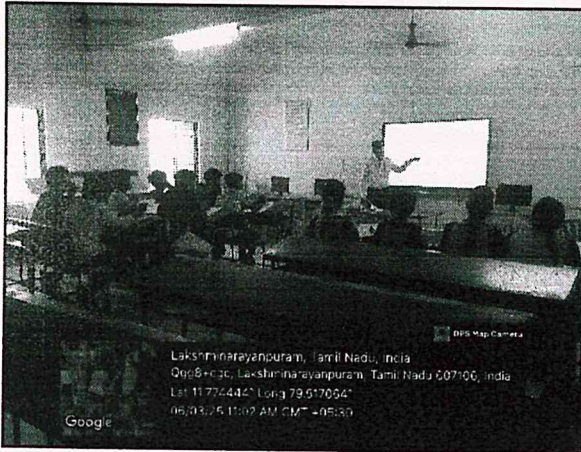
Overall, the value-added course on domestic and industrial wiring proved understanding the basics of electrical wiring, including different types of switches like SPST, SPDT, DPST, and DPST and their operation. Different types of wiring schemes were used, like cleat wiring, batten wiring, lead sheath wiring, casing and capping wiring, and conduit wiring, and the advantages and disadvantages of all the wiring schemes. Different types of cables and for which voltage level they are used. The different types of conductors that can be used in an electrical field were also discussed. Then two types of wiring schemes, i.e., go-down wiring and staircase wiring, and the rules to be considered for the installation in residential wiring schemes.

Different industrial wiring schemes and introductions regarding the different ones that are used in industries. Then different fuses and switches that are used in the industrial panel and the operation of different types of starters like DOL and star-delta starters and their



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implementation with the 3-phase induction motor. The students also understand the wiring of starters and contactors on the panel.



The basic wiring schemes that are implemented in the laboratory, then the contactor connections, and also the different wiring schemes. Thus, students were made aware of how to implement different hardware circuits that can be useful to them in projects.

The course's success was evident in the positive outcomes reported by participants, reinforcing its impact on bridging the gap between theoretical knowledge and practical implementation. Totally 15 students were attended the course.

M. Karitha
13/3/25
COORDINATOR

K. S. K.
13/03/2025
HOD
Head of the Department
Department of Science and Humanities
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.), Pin: 607 106

R. Aravindan
13/3/25
PRINCIPAL
Dr. R. AROKIADASS, M.E., Ph.D.,
Principal,
St. Anne's College of Engineering & Technology,
ANGUCHETTYPALAYAM,
Simvat hur-(Post), Panruti-(T k),
Cuddalore (Dist), Pin: 607 106.



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FEEDBACK ON VALUE ADDED COURSE

Department: S&H (EEE)

Period: 2024-2025

Date: 3.03.25 to 7.03.25

Title: Domestic and Industrial Wiring

Q.No	Question	Student Count	Credit By Category					Total Credit	Credit Secured	Percentage
			5	4	3	2	1			
1	Course plan	15	5	10	0	0	0	75	65	87%
2	Training duration	15	9	6	0	0	0	75	69	92%
3	Interactive approach	15	5	7	3	0	0	75	62	83%
4	Mode of presentation	15	7	6	2	0	0	75	65	87%
5	The course material handed out was adequate	15	5	7	3	0	0	75	62	83%
6	Usage of teaching aids and ICT in the class by faculty to facilitate teaching	15	7	5	3	0	0	75	64	85%
7	The course exposed you to new knowledge and practices	15	4	9	2	0	0	75	62	83%
8	Were objectives of the course clear to you?	15	8	6	1	0	0	75	67	89%
9	The course contents met with your expectations	15	5	7	3	0	0	75	62	83%
10	How would you rate the overall course content?	15	6	8	1	0	0	75	65	87%

M. Karim
PREPARED BY

VERIFIED BY

Head of the Department

Department of Science and Humanities

St. Anne's College of Engineering and Technology
Anguchettipalayam, Panruti-(T.k) Cuddalore-(Dist), Pin: 607 106

APPROVED BY

Dr. R. AROKIADASS, M.E., Ph.D.,
Principal,

St. Anne's College of Engineering & Technology,

ANGUCHETTPALAYAM,

Sivurur-(Post), Panruti-(T.k),

Cuddalore-(Dist), Pin: 607 110.



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5 - DAY VALUE-ADDED COURSE ON "DOMESTIC AND INDUSTRIAL WIRING"

*Organised by
Department of Science and Humanities*

Certificate of Participation

This is to certify that / Ms.....*AGASRIYA..K.*.....of EEE (First Year) attended the 5-Day Value-added Course on "*DOMESTIC AND INDUSTRIAL WIRING*" organised by the Department of Science and Humanities, from 03.03.2025 to 07.03.2025 at St. Anne's College of Engineering and Technology, Panruti, Cuddalore - 607 106.

M. Kavitha

Dr.M.Kavitha Mayilvaganan
Co-ordinator

K. Saravanan

Mr.K.Saravanan
H.O.D

R. Arokiadass

Dr.R.Arokiadass
Principal



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5 - DAY VALUE-ADDED COURSE ON "DOMESTIC AND INDUSTRIAL WIRING"

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Department of Science and Humanities*

Certificate of Participation

This is to certify that / Mr.....*JOE PRINCE..A*.....of EEE (First Year) attended the 5-Day Value-added Course on "*DOMESTIC AND INDUSTRIAL WIRING*" organised by the Department of Science and Humanities, from 03.03.2025 to 07.03.2025 at St. Anne's College of Engineering and Technology, Panruti, Cuddalore - 607 106.

M. Kavitha

Dr.M.Kavitha Mayilvaganan
Co-ordinator

K. Saravanan

Mr.K.Saravanan
H.O.D

R. Arokiadass

Dr.R.Arokiadass
Principal



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5 - DAY VALUE-ADDED COURSE ON “DOMESTIC AND INDUSTRIAL WIRING”

*Organised by
Department of Science and Humanities*

Certificate of Participation

This is to certify that / Ms.....**LAVANYA..M**.....of EEE (First Year) attended the 5-Day Value-added Course on “**DOMESTIC AND INDUSTRIAL WIRING**” organised by the Department of Science and Humanities, from 03.03.2025 to 07.03.2025 at St. Anne's College of Engineering and Technology, Panruti, Cuddalore - 607 106.

M. Kavitha

Dr.M.Kavitha Mayilvaganan
Co-ordinator

K. Saravanan

Mr.K.Saravanan
H.O.D

R. Arokiadass

Dr.R.Arokiadass
Principal



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DEPARTMENT OF SCIENCE AND HUMANITIES

CIRCULAR

(2024 – 2025)

CIR. No.: SACET/S&H/CIR/13

Date: 26. 02. 2025

The Department of Science and Humanities in association with Electronics and Communication Engineering is planned to conduct a Value Added Courses on “**Basic of Electronic Components and Circuit Design** “ for the benefit of First year B.E Electronics and Communication Engineering students. The Course is scheduled from 03.03.25 to 07.03.25 (5 Days)

All the Students must attend all the classes without fail. The following faculty members are assigned to handle the course.

S.No	Name of the Faculty	Designation
1	Mr. V. Venkatesan	Assistant Professor
2	Mr. S. Durairaj	Assistant Professor

Time: 9.30 am to 4.30 pm

Venue: VLSI Laboratory

K. S. Durairaj
27/02/2025
HOD

Head of the Department
Department of Science and Humanities
St. Anne's College of Engineering and Technology
Anguchettipalayam, Panruti-(T.k) Cuddalore-(Dist), Pin: 607 106

R. Aradiadass
27.2.25
PRINCIPAL
Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology,
ANGUCHETTPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 110.

Copy to:

1. Secretary
 2. All HODs
 3. Administrative Officer
 4. File
- ✓



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DEPARTMENT OF SCIENCE AND HUMANITIES

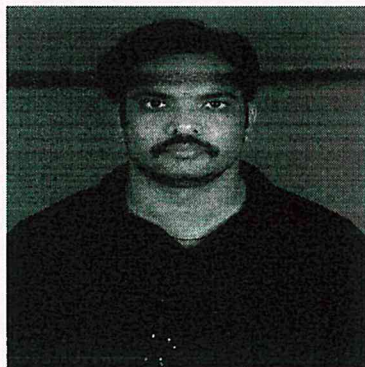
Organizes

Five Days Value-Added Course

on

**“BASIC OF ELECTRONIC
COMPONENTS AND CIRCUIT
DESIGN”**

Resource Persons



Mr. V. Venkatesan, M.E
Assistant Professor
Department of ECE



Mr. S. Durairaj, M.E
Assistant Professor
Department of ECE

Date: 03.03.25 to 07.03.25

Venue: VLSI Laboratory



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DEPARTMENT OF SCIENCE AND HUMANITIES

SYLLABUS FOR VALUE ADDED COURSE ON BASIC OF ELECTRONIC COMPONENTS AND CIRCUIT DESIGN

COURSE OBJECTIVE:

- To gain hands on experience in designing electronic circuits.
- To learn simulation software used in circuit design.
- To learn the fundamental principles of amplifier, Oscillator and multivibrator circuits
- Construct waveform generation circuits.

COURSE SYLLABUS:

DAY 1:

- ✓ Introduction about basic electronic components
- ✓ Resistor, capacitor, Inductor, transformer unit description
- ✓ Determine V,I,R using Ohms law
- ✓ Electronic devices like function generator, CRO. RPS demonstration

DAY 2:

- ✓ Series Parallel Resistance circuit
- ✓ Determination of KVL, KCL
- ✓ Introduction about multimeter, ammeter, voltmeter
- ✓ Lab session on determine voltage, current, resistance using multimeter

DAY 3:

- ✓ Introduction about Proteus Software
- ✓ Explanation on toolbars
- ✓ Basic RC, RL circuit design
- ✓ Circuit design and Calculation of V, I, R using multimeter
- ✓ Explanation about various filter circuits.



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DAY 4:

- ✓ Low pass filter, high pass filter circuit design using proteus
- ✓ Band pass filter and Band stop filter circuit design
- ✓ Explanation and basic operation on Diode and transistors
- ✓ Circuit design on half wave rectifier and full wave rectifier
- ✓ Amplifier circuit design

DAY 5:

- ✓ Introduction about Digital circuit design
- ✓ Circuit design using Logic gates
- ✓ Circuit design for half adder and full adder circuit
- ✓ Circuit design for half subtractor
- ✓ LED blink Circuit design

COURSE OUTCOME:

Students will:

- Learn how to develop and employ circuit models for elementary electronic components, e.g., resistors, sources, inductors, capacitors, diodes and transistors
- Become adept at using various methods of circuit analysis, including simplified methods such as series-parallel reductions, voltage and current dividers, and the node method
- Learn how to calculate frequency response curves using simulation software used in circuit design.
- Acquire experience in building and designing simple electronic Analog and digital circuits using simulation software.

M. Kavitha
13/13/2025

CO-ORDINATOR

K. S. K. S. K.
13/03/2025

HOD

Head of the Department
Department of Science and Humanities
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(Tk) Cuddalore-(Dist), Pin: 607 106



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DEPARTMENT OF SCIENCE AND HUMANITIES

**VALUE ADDED COURSE ON
BASIC OF ELECTRONIC COMPONENTS AND CIRCUIT DESIGN
Student Registration List**

DEPT: ECE

DATE: 03.03.25 to 07.03.25

S.NO	REGISTER.NO	NAME OF THE STUDENTS
1	422124106001	Anandha Jayasri S
2	422124106002	Archana M
3	422124106003	Arya M
4	422124106004	Balaji K
5	422124106005	Deivaprakash L
6	422124106006	Divyadharshini K
7	422124106007	Elayakala E
8	422124106008	Gokulmani K
9	422124106010	Janani M
10	422124106011	Jeeva S
11	422124106012	Kalaivanan G
12	422124106013	Mahalakshmi R
13	422124106014	Monika V
14	422124106015	Muthuganesh K
15	422124106016	Neeraja A
16	422124106017	Noor Samira A K
17	422124106018	Pavithra P
18	422124106019	Ragavalli R
19	422124106020	Rajeswari R
20	422124106021	Sathiya K
21	422124106022	Sidharth D
22	422124106023	Sowmiya K
23	422124106024	Sundareswaran K
24	422124106025	Suresh B
25	422124106026	Thamas V
26	422124106027	Thiruvikraman R
27	422124106028	Yuvansankar M

M. Kavitha
13/3/25
CO-ORDINATOR

K. S. S. S.
13/3/25
HOD
Head of the Department
Department of Science and Humanities
St. Anne's College of Engineering and Technology
Anguchettipalayam, Panruti-(Tk) Cuddalore-(Dist.), Pin: 607 106

15	422124106016	Neeraja A	A. Neeraja	A. Neeraja	A. Neeraja	A. Neeraja	A. Neeraja	A. Neeraja	A. Neeraja	A. Neeraja	A. Neeraja
16	422124106017	Noor Samira A K	A.K. Noor Samira	A.K. Noor Samira	A.K. Noor Samira	A.K. Noor Samira	A.K. Noor Samira	A.K. Noor Samira	A.K. Noor Samira	A.K. Noor Samira	A.K. Noor Samira
17	422124106018	Pavithra P	P. Pavithra	P. Pavithra	P. Pavithra	P. Pavithra	P. Pavithra	P. Pavithra	P. Pavithra	P. Pavithra	P. Pavithra
18	422124106019	Ragavalli R	R. Ragavalli	R. Ragavalli	R. Ragavalli	R. Ragavalli	R. Ragavalli	R. Ragavalli	R. Ragavalli	R. Ragavalli	R. Ragavalli
19	422124106020	Rajeswari R	R. Rajeswari	R. Rajeswari	R. Rajeswari	R. Rajeswari	R. Rajeswari	R. Rajeswari	R. Rajeswari	R. Rajeswari	R. Rajeswari
20	422124106021	Sathiya K	K. Sathiya	K. Sathiya	K. Sathiya	K. Sathiya	AB	AB	K. Sathiya	K. Sathiya	K. Sathiya
21	422124106022	Sidharth D	Sidharth D	Sidharth D	Sidharth D	Sidharth D	Sidharth D	Sidharth D	Sidharth D	Sidharth D	Sidharth D
22	422124106023	Sowmiya K	K. Sowmiya	K. Sowmiya	K. Sowmiya	K. Sowmiya	K. Sowmiya	K. Sowmiya	K. Sowmiya	K. Sowmiya	K. Sowmiya
23	422124106024	Sundareswaran K	K. Sundareswaran	K. Sundareswaran	K. Sundareswaran	K. Sundareswaran	K. Sundareswaran	K. Sundareswaran	K. Sundareswaran	K. Sundareswaran	K. Sundareswaran
24	422124106025	Suresh B	B. Suresh	B. Suresh	B. Suresh	B. Suresh	B. Suresh	B. Suresh	B. Suresh	B. Suresh	B. Suresh
25	422124106026	Thamas V	V. Thamas	V. Thamas	V. Thamas	V. Thamas	V. Thamas	V. Thamas	AB	V. Thamas	V. Thamas
26	422124106027	Thiruvikraman R	R. Thiruvikraman	R. Thiruvikraman	R. Thiruvikraman	R. Thiruvikraman	R. Thiruvikraman	R. Thiruvikraman	R. Thiruvikraman	R. Thiruvikraman	R. Thiruvikraman
27	422124106028	Yuvansankar M	AB	AB	AB	AB	AB	AB	AB	AB	AB

M. Kanith
13/2/25
EVENT COORDINATOR

K. Suresh
07/02/2025
HOD
Head of the Department
Department of Science and Humanities
St. Anne's College of Engineering and Technology
Anguchettyalayam, Panruti-(T.k) Cuddalore-(Dist.), Pin: 607 106



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DEPARTMENT OF SCIENCE AND HUMANITIES

**VALUE ADDED COURSE ON BASIC OF ELECTRONIC COMPONENTS AND CIRCUIT
DESIGN**

ASSESSMENT MARKS

DEPT: ECE

DATE: 3.03.2025 to 7.03.2025

S.NO	REGISTER.NO	STUDENT NAME	MARKS
1	422124106001	Anandha Jayasri S	95
2	422124106002	Archana M	90
3	422124106003	Arya M	85
4	422124106004	Balaji K	85
5	422124106005	Deivaprakash L	85
6	422124106006	Divyadharshini K	85
7	422124106007	Elayakala E	90
8	422124106008	Gokulmani K	80
9	422124106010	Janani M	90
10	422124106011	Jeeva S	85
11	422124106012	Kalaivanan G	90
12	422124106013	Mahalakshmi R	95
13	422124106014	Monika V	95
14	422124106015	Muthuganesh K	85
15	422124106016	Neeraja A	90
16	422124106017	Noor Samira A K	100
17	422124106018	Pavithra P	100
18	422124106019	Ragavalli R	85
19	422124106020	Rajeswari R	95
20	422124106021	Sathiya K	75
21	422124106022	Sidharth D	85
22	422124106023	Sowmiya K	95
23	422124106024	Sundareswaran K	95
24	422124106025	Suresh B	90
25	422124106026	Thamas V	70
26	422124106027	Thiruvikraman R	75
27	422124106028	Yuvansankar M	70

M. Kavitha
CO-ORDINATOR

K. S. S. S.
Head HOD Department
Department of Science and Humanities
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(Tk) Cuddalore-(Dist), Pin: 607 106



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DEPARTMENT OF SCIENCE AND HUMANITIES

VALUE ADDED COURSE REPORT ON BASIC OF ELECTRONIC COMPONENTS AND CIRCUIT DESIGN

The Department of Science and Humanities in association with Electronics and Communication Engineering conducted a Value-Added Course on “Basic of Electronic Components and Circuit Design” for the benefit of First Year ECE students. The course is scheduled from 03.03.25 to 07.03.25. The following faculty members were handled the course.

S.No	Name of the Faculty	Designation
1	Mr. V. Venkatesan	Assistant Professor
2	Mr. S. Durairaj	Assistant Professor

This value-added course focuses on understanding the fundamentals of electronic and communication engineering, which is crucial for anyone interested in the field. The value-added courses cover the following topics

First 3 days students learnt about Analog Electronics

Introduction:

Analog electronics is a branch of electronics that deals with continuous signals in contrast to digital electronics, which deals with discrete signals. In analog electronics, signals can have any value within a given range, and they are usually represented by voltage or current. The key components in analog electronics include resistors, capacitors, inductors, diodes, transistors, and operational amplifiers.

Here are some key areas of analog electronics:

1. Resistors, Capacitors, and Inductors (RLC) Circuits

Resistors limit the current flow in a circuit.

Capacitors store energy in the form of an electric field and are used in filtering and timing applications.

Inductors store energy in the form of a magnetic field and are used in applications like power supplies and radio-frequency circuits.

2. Transistors

Bipolar Junction Transistors (BJT) and Field-Effect Transistors (FET) are used to amplify or switch electronic signals.



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BJTs are current-controlled devices, while FETs are voltage-controlled, with MOSFETs being the most common type of FET in analog applications.

3. Operational Amplifiers (Op-Amps)

These are versatile components used in signal amplification, filtering, and many other applications.

Op-amps are commonly used in feedback configurations to create amplifiers, filters, oscillators, and voltage followers.

4. Filters

Low-pass filters allow signals below a certain frequency to pass through while attenuating higher frequencies.

High-pass filters allow signals above a certain frequency to pass through while attenuating lower frequencies.

Band-pass filters allow signals within a specific frequency range to pass.

5. Signal Amplification

Analog amplifiers increase the amplitude of a signal. They are used in applications like audio systems, radio receivers, and instrumentation.

6. Oscillators

Circuits that generate a continuous periodic signal, usually in the form of a sine wave or square wave.

Used in clock generation, tone generation, and frequency synthesis.

7. Analog-to-Digital Conversion (ADC) and Digital-to-Analog Conversion (DAC)

ADCs convert continuous analog signals to discrete digital signals for use in digital systems.

DACs convert digital signals back to continuous analog signals for use in audio, video, or other systems requiring analog inputs.

8. Power Electronics

Analog electronics is used in power supply systems, DC-DC converters, and AC-DC rectifiers to manage power efficiently.

Next 2 days students were learnt about digital electronics

Digital electronics is a branch of electronics that deals with devices, circuits, and systems that work with digital signals. Digital signals are typically represented as binary values (0s and 1s), which can correspond to two distinct voltage levels, such as low and high, or on and off.



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Here are some fundamental aspects of digital electronics:

1. Binary System:

Digital electronics operates primarily on the binary number system, which uses two digits: 0 and 1. Each digit is called a bit, and a group of bits forms a byte (usually 8 bits).

2. Logic Gates:

Logic gates are the building blocks of digital circuits. They perform logical operations on binary values. The most common logic gates are:

AND, OR, NOT, NAND, NOR, XOR (exclusive OR), XNOR (exclusive NOR)

These gates can be combined to form complex circuits that perform specific functions.

3. Combinational Logic Circuits:

In combinational circuits, the output is a direct function of the inputs. Examples include adders, multiplexers, decoders, and encoders.

4. Sequential Logic Circuits:

In sequential circuits, the output depends not only on the current input but also on past inputs (or states). These circuits use memory elements like flip-flops and latches to store information. Common examples include counters, registers, and finite state machines (FSM).

5. Flip-Flops and Latches:

Flip-flops are basic memory units used to store a bit of data. They are edge-triggered, meaning they change their state at a specific moment (e.g., on the rising edge or falling edge of a clock pulse).

Latches are similar but level-triggered, meaning they change their state when the clock signal is at a particular level (high or low).

6. Microcontrollers and Microprocessors:

Digital electronics plays a central role in microcontrollers and microprocessors, which are used in a wide range of applications from embedded systems to complex computing devices.

These integrated circuits process digital data and control other systems in response.



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7. Digital to Analog Conversion (DAC) and Analog to Digital Conversion (ADC):

DACs convert digital signals to analog signals (e.g., to drive speakers or motors).

ADCs convert analog signals to digital signals (e.g., to process audio from a microphone or temperature from a sensor).

8. Clock and Timing:

In many digital systems, a clock signal is used to synchronize operations. The clock provides regular pulses to control when changes happen in sequential circuits.

Applications:

Computing (e.g., CPUs, memory, storage)

Communication (e.g., modems, networking equipment)

Control Systems (e.g., automation in factories)

Consumer Electronics (e.g., digital cameras, smartphones)

Signal Processing (e.g., audio, video, and image processing)

Totally 27 students were attended and benefitted.

M. Kavitha
13/3/25
COORDINATOR

K. S. S. S.
13/3/25
HOD
Head of the Department
Department of Science and Humanities
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.), Pin: 607 106

R. Aradiyan
13/3/25
PRINCIPAL
Dr. R. AROKIADASS, M.E., Ph.D.,
Principal,
St. Anne's College of Engineering & Technology,
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 110.



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FEEDBACK ON VALUE ADDED COURSE

Department: S&H (ECE)

Period: 2024-2025

Date: 3.03.25 to 7.03.25

Title: Basic of Electronic Components and Circuit Design

Q.No	Question	Student Count	Credit By Category					Total Credit	Credit Secured	Percentage
			5	4	3	2	1			
1	Course plan	27	8	14	5	0	0	135	111	82%
2	Training duration	27	9	15	3	0	0	135	114	84%
3	Interactive approach	27	14	12	1	0	0	135	121	90%
4	Mode of presentation	27	9	12	5	0	1	135	109	81%
5	The course material handed out was adequate	27	10	15	2	0	0	135	116	86%
6	Usage of teaching aids and ICT in the class by faculty to facilitate teaching	27	13	11	3	0	0	135	118	87%
7	The course exposed you to new knowledge and practices	27	8	17	2	0	0	135	114	84%
8	Were objectives of the course clear to you?	27	12	13	2	0	0	135	118	87%
9	The course contents met with your expectations	27	11	11	5	0	0	135	114	84%
10	How would you rate the overall course content?	27	10	15	2	0	0	135	116	86%

M. Karthi
PREPARED BY

VERIFIED BY

Head of the Department
Department of Science and Humanities
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist), Pin: 607 106

APPROVED BY

Dr. R. AROKIADASS, M.E., Ph.D.,
Principal,
St. Anne's College of Engineering & Technology
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 110.



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5 - DAY VALUE-ADDED COURSE ON "BASIC OF ELECTRONIC COMPONENTS AND CIRCUIT DESIGN"

*Organised by
Department of Science and Humanities*

Certificate of Participation

This is to certify that / Ms.....*NOOR..SAMIRA..A..K*.....of ECE (First Year)
attended the 5-Day Value-Added Course on "*BASIC OF ELECTRONIC COMPONENTS AND
CIRCUIT DESIGN*" organised by the Department of Science and Humanities, from 03.03.2025 to
07.03.2025 at St. Anne's College of Engineering and Technology, Panruti, Cuddalore - 607 106.

M. Kavitha

Dr.M.Kavitha Mayilvaganan
Co-ordinator

K. Saravanan

Mr.K.Saravanan
H.O.D

R. Arokiadass

Dr.R.Arokiadass
Principal



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5 - DAY VALUE-ADDED COURSE ON "BASIC OF ELECTRONIC COMPONENTS AND CIRCUIT DESIGN"

*Organised by
Department of Science and Humanities*

Certificate of Participation

This is to certify that / Ms.....*NEERAJA..A*.....of ECE (First Year) attended the 5-Day Value-Added Course on "*BASIC OF ELECTRONIC COMPONENTS AND CIRCUIT DESIGN*" organised by the Department of Science and Humanities, from 03.03.2025 to 07.03.2025 at St. Anne's College of Engineering and Technology, Panruti, Cuddalore - 607 106.

M. Kavitha

Dr.M.Kavitha Mayilvaganan
Co-ordinator

K. Saravanan

Mr.K.Saravanan
H.O.D

R. Arokiadass

Dr.R.Arokiadass
Principal



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5 - DAY VALUE-ADDED COURSE ON “BASIC OF ELECTRONIC COMPONENTS AND CIRCUIT DESIGN”

*Organised by
Department of Science and Humanities*

Certificate of Participation

This is to certify that / Mr.....*THIRUVIKRAMAN..R*.....of ECE (First Year)
attended the 5-Day Value-Added Course on “*BASIC OF ELECTRONIC COMPONENTS AND
CIRCUIT DESIGN*” organised by the Department of Science and Humanities, from 03.03.2025 to
07.03.2025 at St. Anne's College of Engineering and Technology, Panruti, Cuddalore - 607 106.

M. Kavitha

Dr.M.Kavitha Mayilvaganan
Co-ordinator

K. Saravanan

Mr.K.Saravanan
H.O.D

R. Arokiadass

Dr.R.Arokiadass
Principal



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DEPARTMENT OF SCIENCE AND HUMANITIES

CIRCULAR

(2024 – 2025)

CIR. No.: SACET/S&H/CIR/14

Date: 26. 02. 2025

The Department of Science and Humanities in association with Mechanical Engineering is planned to conduct a Value Added Courses on “**Troubleshooting and Maintenance of BS-4 IC Engine** “ for the benefit of First year B.E., Mechanical Engineering students. The Course is scheduled from 03.03.25 to 07.03.25 (5 Days)

All the Students must attend all the classes without fail. The following faculty members are assigned to handle the course.

S.No	Name of the Faculty	Designation
1	Mr. T. Elangovan	Assistant Professor
2	Sr. A. Josephine Mary	Assistant Professor

Time: 9.30 am to 4.30 pm

Venue: Mechatronics Lab

K. S. T.
HOD 27/02/25

Head of the Department
Department of Science and Humanities
St. Anne's College of Engineering and Technology
Anguchettipalayam, Panruti-(T.k) Cuddalore-(Dist), Pin: 607 106

R. J. Aradiyan
27.2.25
PRINCIPAL
Dr. R. AROKIADASS, M.E., Ph.D.
Principal,
St. Anne's College of Engineering & Technology,
ANGUCHETTPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 110.

Copy to:

1. Secretary
2. All HODs
3. Administrative Officer
4. File



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DEPARTMENT OF SCIENCE AND HUMANITIES

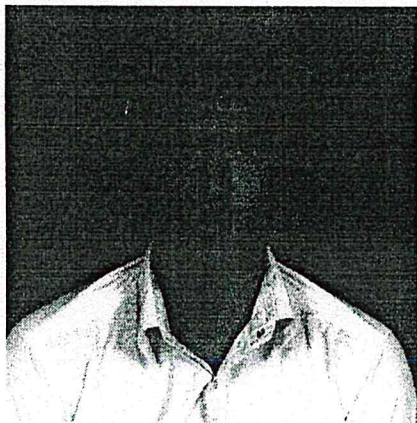
Organizes

Five Days Value- Added Course

on

**“TROUBLESHOOTING AND
MAINTENANCE OF BS-4 IC
ENGINE”**

Resource Persons



Mr. T. Elangovan, M.E
Assistant Professor
Department of MECH



Sr. A. Josephine Mary, M.Tech
Assistant Professor
Department of MECH

Date: 03.03.25 to 07.03.25

Venue: Mechatronics Lab



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DEPARTMENT OF SCIENCE AND HUMANITIES

SYLLABUS FOR VALUE ADDED COURSE ON TROUBLESHOOTING AND MAINTENANCE OF BS-4 IC ENGINE

COURSE OBJECTIVE:

1. To understand the principles and operation of IC engines
2. To Identify and explain the components and systems of IC engines
3. To Analyze and interpret engine performance data
4. To Develop practical skills in engine maintenance, repair, and testing
5. To Apply knowledge and skills to design and develop IC engine projects

COURSE CONTENT:

DAY 1. INTRODUCTION TO IC ENGINES

- Definition, classification, and applications
- History and development of IC engines
- Disassembly of a 4-stroke engine

DAY 2. ENGINE COMPONENTS AND SYSTEMS

- Cylinder block, cylinder head, and piston
- Connecting rod, crankshaft, and camshaft
- Valve train, fuel system, and ignition system
- Routine maintenance tasks (oil changes, filter replacement)
- Troubleshooting and repair of common engine problems

DAY 3. ENGINE OPERATING PRINCIPLES

- 2-stroke and 4-stroke engine cycles
- Air-fuel mixture preparation and combustion
- Engine performance parameters (power, torque, efficiency)
- Identification and inspection of engine components



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DAY 4. ENGINE PERFORMANCE AND TESTING

- Engine testing and instrumentation
- Performance characteristics (brake power, torque, specific fuel consumption)
- Engine emissions and environmental impact
- Engine tuning and adjustment (carburetor, ignition timing)

DAY 5. ENGINE DESIGN AND DEVELOPMENT

- Engine design considerations (power, efficiency, emissions)
- Engine development process (prototyping, testing, validation)
- Reassembly of the engine

COURSE OUTCOME:

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

1. **Explain** the fundamental principles, working cycles, and operational characteristics of Internal Combustion (IC) engines.
2. **Identify and describe** the key components, subsystems, and their functions in IC engines.
3. **Analyze and evaluate** engine performance parameters using experimental and theoretical methods.
4. **Demonstrate proficiency** in performing maintenance, troubleshooting, and repair of IC engines.
5. **Apply engineering principles** to design, develop, and optimize IC engine-based projects.

These outcomes ensure that students gain theoretical knowledge, practical skills, and problem-solving abilities related to IC engines.

M. Kanithy
13/11/25
CO-ORDINATOR

K. S. S. S.
13/11/25
HOD

Head of the Department
Department of Science and Humanities
St. Anne's College of Engineering and Technology
Anguchetypalayam, Panruti-(T.k) Cuddalore-(Dist.), Pin: 607 106



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DEPARTMENT OF SCIENCE AND HUMANITIES

VALUE ADDED COURSE ON TROUBLESHOOTING AND MAINTENANCE
OF BS-4 IC ENGINE

Student Registration List

DEPT: MECH

DATE: 3.03.25 to 7.03.25

S.NO	REGISTER NO	NAME OF THE STUDENTS
1	422124114001	Chandru S
2	422124114002	Devaraj V
3	422124114003	Dhanush P
4	422124114004	Ganesh P
5	422124114005	Gowtham K
6	422124114006	Jeevanandham K
7	422124114007	John Danial J
8	422124114008	Keerthana L
9	422124114009	Muresh Raj T
10	422124114010	Shameem Basha K
11	422124114011	Sridharan S
12	422124114012	Sriharsha K
13	422124114013	Thirukumaran B
14	422124114014	Vinothkumar V

Mr. Kavitha
13/3/25
CO-ORDINATOR

K. S. S.
13/03/2025
HOD
Head of the Department
Department of Science and Humanities
St. Anne's College of Engineering and Technology
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DEPARTMENT OF SCIENCE AND HUMANITIES

Value Added Course Attendance Sheet

Department: MECH

Period: 2024-2025

Title: TROUBLESHOOTING AND MAINTENANCE OF BS-4 IC ENGINE

Date: 03.03.2025 to 07.03.2025

S.NO	REGISTER NO	NAME OF THE STUDENTS	03.03.2025		04.03.2025		05.03.2025		06.03.2025		07.03.2025	
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1	422124114001	Chandru S	S.chandru	S.chandru	AB	AB	AB	AB	S.chandru	S.chandru	S.chandru	S.chandru
2	422124114002	Devaraj V	AB	AB	AB	AB	V. Devaraj	V. Devaraj	V. Devaraj	V. Devaraj	V. Devaraj	V. Devaraj
3	422124114003	Dhanush P	P. Dhanush	P. Dhanush	P. Dhanush	P. Dhanush	P. Dhanush	P. Dhanush	P. Dhanush	P. Dhanush	P. Dhanush	P. Dhanush
4	422124114004	Ganesh P	P. Ganesh	P. Ganesh	P. Ganesh	P. Ganesh	P. Ganesh	P. Ganesh	P. Ganesh	P. Ganesh	P. Ganesh	P. Ganesh
5	422124114005	Gowtham K	K. Gowtham	K. Gowtham	K. Gowtham	K. Gowtham	K. Gowtham	K. Gowtham	K. Gowtham	K. Gowtham	K. Gowtham	K. Gowtham
6	422124114006	Jeevanandham K	K. Jeevanandham	K. Jeevanandham	K. Jeevanandham	K. Jeevanandham	AB	AB	K. Jeevanandham	K. Jeevanandham	AB	AB
7	422124114007	John Danial J	AB	AB	J. DANIAL	J. DANIAL	J. DANIAL	J. DANIAL	J. DANIAL	J. DANIAL	J. DANIAL	J. DANIAL
8	422124114008	Kerthana L	L. Kerthana	L. Kerthana	L. Kerthana	L. Kerthana	L. Kerthana	L. Kerthana	L. Kerthana	L. Kerthana	L. Kerthana	L. Kerthana
9	422124114009	Muresh Raj T	T. Muresh Raj	T. Muresh Raj	AB	AB	T. Muresh Raj	T. Muresh Raj	T. Muresh Raj	T. Muresh Raj	T. Muresh Raj	T. Muresh Raj
10	422124114010	Shameem Basha K	K. Shameem Basha	K. Shameem Basha	K. Shameem Basha	K. Shameem Basha	K. Shameem Basha	K. Shameem Basha	K. Shameem Basha	K. Shameem Basha	K. Shameem Basha	K. Shameem Basha
11	422124114011	Saidharan S	S. Saidharan	S. Saidharan	S. Saidharan	S. Saidharan	S. Saidharan	S. Saidharan	S. Saidharan	S. Saidharan	AB	AB
12	422124114012	Sriharsha K	K. Sriharsha	K. Sriharsha	K. Sriharsha	K. Sriharsha	AB	AB	K. Sriharsha	K. Sriharsha	AB	AB
13	422124114013	Thirukumar B	B. Thirukumar	B. Thirukumar	B. Thirukumar	B. Thirukumar	B. Thirukumar	B. Thirukumar	B. Thirukumar	B. Thirukumar	B. Thirukumar	B. Thirukumar
14	422124114014	Vnothkumar V	V. Vnothkumar	V. Vnothkumar	V. Vnothkumar	V. Vnothkumar	V. Vnothkumar	V. Vnothkumar	V. Vnothkumar	V. Vnothkumar	V. Vnothkumar	V. Vnothkumar

M. Kavitha
EVENT COORDINATOR

K. S. ...
HOD
Head of the Department
Department of Science and Humanities
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.), Pin: 607 106



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DEPARTMENT OF SCIENCE AND HUMANITIES

**VALUE ADDED COURSE ON TROUBLESHOOTING AND MAINTENANCE
OF BS-4 IC ENGINE**

ASSESSMENT MARKS

DEPT: MECH

DATE: 3.03.2025 to 7.03.2025

S.NO	REGISTER. NO	STUDENT NAME	MARKS
1	422124114001	Chandru S	85
2	422124114002	Devaraj V	88
3	422124114003	Dhanush P	94
4	422124114004	Ganesh P	91
5	422124114005	Gowtham K	90
6	422124114006	Jeevanandham K	86
7	422124114007	John Danial J	80
8	422124114008	Keerthana L	95
9	422124114009	Muresh Raj T	83
10	422124114010	Shameem Basha K	93
11	422124114011	Sridharan S	84
12	422124114012	Sriharsha K	85
13	422124114013	Thirukumaran B	80
14	422124114014	Vinothkumar V	91

M. Kavitha
13/3/25
CO-ORDINATOR

K. S. S.
13/03/2025
HOD
Head of the Department
Department of Science and Humanities
St. Anne's College of Engineering and Technology
Anguchettipalayam, Panruti-(T.k) Cuddalore-(Dist.), Pin: 607 106



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DEPARTMENT OF SCIENCE AND HUMANITIES

VALUE ADDED COURSE REPORT ON TROUBLESHOOTING AND MAINTENANCE OF BS-4 I.C ENGINE

The Department of Science and Humanities in association with mechanical Engineering conducted a Value-Added Course on “troubleshooting and maintenance of BS-4 I.C engine” for the benefit of First Year mechanical students. The course is scheduled from 03.03.25 to 07.03.25. The following faculty members were handled the course.

S.NO	Name of the Faculty	Designation
1	Mr.T.Elangovan	Assistant Professor
2	Sr.A.Josephinemarry	Assistant Professor

This value-added course focuses on understanding the fundamentals of internal combustion engine, which is crucial for mechanical engineering field. The value-added courses cover the following topics

1. Introduction

Assembling and dismantling a two-wheeler four-stroke internal combustion (IC) engine involves intricate steps and requires proper knowledge of engine components and procedures. These engines are commonly used in motorcycles, scooters, and other two-wheeled vehicles due to their efficiency and reliability. The four-stroke engine operates through four distinct phases—intake, compression, power, and exhaust—which occur during two complete rotations of the crankshaft.

This report covers the process of both assembling and dismantling the engine, which requires technical skills, appropriate tools, and a systematic approach to avoid damage to any components.

2. Tools and Equipment Required

- **Basic Hand Tools:**
- **Specialized Tools:**
- **Lubricants:**
- **Cleaning Materials:**
- **Safety Gear:**

3. Disassembly Process of a Four-Stroke IC Engine

The dismantling of a four-stroke IC engine typically follows these steps:

1. Preparation:



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- Place the vehicle on a stable work surface, like a motorcycle lift.
- Disconnect the battery to avoid electrical shocks.
- Drain the engine oil, coolant (if applicable), and fuel.

2. Remove External Components:

- Remove the engine covers (side covers, valve cover, and timing cover) using appropriate tools.
- Detach the carburetor or fuel injector assembly.
- Disconnect wiring harnesses and sensors attached to the engine.
- Remove exhaust manifold and any other peripheral components (e.g., air filters, spark plug wires).

3. Separate the Engine from the Frame:

- Using a lift or hoist, carefully detach the engine from the motorcycle frame.
- Ensure to remove bolts and fasteners that secure the engine.

Dismantle the Engine: Begin with the removal of the cylinder head by unbolting the head bolts in a crisscross pattern.

- Remove the camshaft, rocker arms, and valve springs.
- Disassemble the timing chain or timing belt.
- Remove the cylinder from the crankcase by unbolting the mounting bolts.
- Extract the piston and connecting rods carefully.
- Finally, remove the crankshaft by taking out the main bearing bolts.

4. Inspect the Components:

- After dismantling, inspect all parts for wear, cracks, or other damage. This includes pistons, cylinder walls, crankshaft, bearings, valves, and timing gears.
- Measure the critical dimensions (e.g., bore size, crankshaft run-out) using tools like micrometers or calipers.

5. Cleaning:

- Clean all reusable parts with solvent or parts cleaner, removing carbon build-up, oil, and dirt.

4. Reassembly Process of a Four-Stroke IC Engine

Reassembling a four-stroke engine follows a precise sequence to ensure that everything works properly:



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1. Preparation for Assembly:

- Ensure all parts are cleaned and inspected.
- Gather the necessary gaskets, seals, and new components (such as piston rings, bearings, etc.).

2. Install the Crankshaft:

- Lubricate the crankshaft journals and install it into the crankcase.
- Secure it with main bearings and bolts as specified by the manufacturer.

3. Install the Pistons and Connecting Rods:

- Lubricate the piston rings and install them on the pistons.
- Carefully slide the pistons into the cylinder bores, ensuring they are properly aligned with the connecting rods.
- Attach the connecting rods to the crankshaft and tighten the connecting rod bolts.

4. Install the Cylinder and Cylinder Head:

- Place the cylinder onto the crankcase, making sure the piston moves freely within the bore.
- Install the cylinder head with new gaskets, ensuring proper alignment.
- Tighten the cylinder head bolts in a crisscross pattern to the correct torque specifications.

5. Reinstall Valve train Components:

- Install the camshaft, ensuring it aligns with the timing marks.
- Place the valve springs, rocker arms, and valves in their respective positions.
- Set the valve clearance or lash (if applicable).

6. Timing and Valve Train Adjustment:

- Install and adjust the timing chain or timing belt to the correct tension and alignment.
- Check valve timing according to the manufacturer's specifications.

7. Install External Components:

- Reinstall the camshaft cover, timing cover, and other external components like the carburetor or fuel injection system.
- Attach wiring harnesses, sensors, and exhaust manifold.



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8. Check for Proper Functionality:

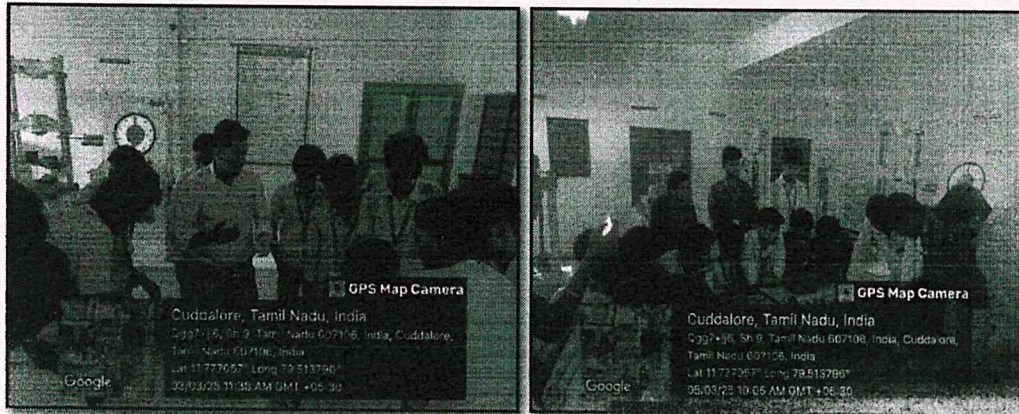
- Manually rotate the crankshaft and check for smooth operation without interference.
- Ensure all fasteners are torqued to the specified settings.

9. Oil and Fluid Replacement:

- Add fresh engine oil, coolant, and any other necessary fluids.

10. Final Inspection and Test Run:

- Inspect for any leaks or unusual noises.
- Start the engine and monitor for proper operation, ensuring all systems (fuel, electrical, exhaust) are functioning.



5. Conclusion

Assembling and disassembling a two-wheeler four-stroke internal combustion engine requires technical knowledge and attention to detail. The process involves understanding the engine's components, tools, and procedures to ensure a proper rebuild or repair. Adherence to manufacturer guidelines, proper safety measures, and clean assembly practices are critical to ensure the longevity and performance of the engine. Regular maintenance after assembly ensures smooth engine performance over time. There are 14 students were attended the course.

M. Kavitha
13/3/25
COORDINATOR

K. S. S. S.
13/3/25
HOD
Head of the Department
Department of Science and Humanities
St. Anne's College of Engineering and Technology
Anguchettipalayam, Panruti-(T.k) Cuddalore-(Dist.), Pin: 607 106

R. Arokiadass
13/3/25
PRINCIPAL
Dr. R. AROKIADASS, M.E., Ph.D.,
Principal,
St. Anne's College of Engineering & Technology
ANGUCHETTPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 106



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FEEDBACK ON VALUE ADDED COURSE

Department: S&H (MECH)

Period: 2024-2025

Date: 3.03.25 to 7.03.25

Title: Troubleshooting and Maintenance of BS-4 IC Engine

Q.No	Question	Student Count	Credit By Category					Total Credit	Credit Secured	Percentage
			5	4	3	2	1			
1	Course plan	14	5	8	1	0	0	70	60	86%
2	Training duration	14	5	9	0	0	0	70	61	87%
3	Interactive approach	14	5	6	3	0	0	70	58	83%
4	Mode of presentation	14	7	7	0	0	0	70	63	90%
5	The course material handed out was adequate	14	6	7	1	0	0	70	61	87%
6	Usage of teaching aids and ICT in the class by faculty to facilitate teaching	14	6	7	1	0	0	70	61	87%
7	The course exposed you to new knowledge and practices	14	6	7	1	0	0	70	61	87%
8	Were objectives of the course clear to you?	14	7	6	1	0	0	70	62	89%
9	The course contents met with your expectations	14	4	8	2	0	0	70	58	83%
10	How would you rate the overall course content?	14	9	5	0	0	0	70	65	93%

M. Karthika
PREPARED BY

K. S. S. S. S.
12/3/25
VERIFIED BY

Head of the Department
Department of Science and Humanities
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.), Pin: 607 106

P. Aravindhan
13.3.25
APPROVED BY
Dr. R. AROKIADASS, M.E., Ph.D.,
Principal,
St. Anne's College of Engineering & Technology,
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 106.



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5 - DAY VALUE-ADDED COURSE ON "TROUBLESHOOTING AND MAINTENANCE OF BS - 4 IC ENGINE"

Organised by
Department of Science and Humanities

Certificate of Participation

This is to certify that / Ms.....*SHAMEEM..BASHA..K*.....of MECH (First Year) attended the 5-Day Value-Added Course on "*TROUBLESHOOTING AND MAINTENANCE OF BS - 4 IC ENGINE*" organised by the Department of Science and Humanities, from 03.03.2025 to 07.03.2025 at St. Anne's College of Engineering and Technology, Panruti, Cuddalore - 607 106.

M. Kavitha

Dr.M.Kavitha Mayilvaganan
Co-ordinator

K. Saravanan

Mr.K.Saravanan
H.O.D

R. Arokiadass

Dr.R.Arokiadass
Principal



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5 - DAY VALUE-ADDED COURSE ON "TROUBLESHOOTING AND MAINTENANCE OF BS - 4 IC ENGINE"

*Organised by
Department of Science and Humanities*

Certificate of Participation

This is to certify that / Mr.....*DHANUSH..P*.....of MECH (First Year) attended the 5-Day Value-Added Course on "*TROUBLESHOOTING AND MAINTENANCE OF BS - 4 IC ENGINE*" organised by the Department of Science and Humanities, from 03.03.2025 to 07.03.2025 at St. Anne's College of Engineering and Technology, Panruti, Cuddalore - 607 106.

M. Kavitha

Dr.M.Kavitha Mayilvaganan
Co-ordinator

K. Saravanan

Mr.K.Saravanan
H.O.D

R. Arokiadass

Dr.R.Arokiadass
Principal



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5 - DAY VALUE-ADDED COURSE ON "TROUBLESHOOTING AND MAINTENANCE OF BS - 4 IC ENGINE"

Organised by
Department of Science and Humanities

Certificate of Participation

This is to certify that / Ms.....*KEERTHANA..L*.....of MECH (First Year) attended the 5-Day Value-Added Course on "*TROUBLESHOOTING AND MAINTENANCE OF BS - 4 IC ENGINE*" organised by the Department of Science and Humanities, from 03.03.2025 to 07.03.2025 at St. Anne's College of Engineering and Technology, Panruti, Cuddalore - 607 106.

M. Kavitha

Dr.M.Kavitha Mayilvaganan
Co-ordinator

K. Saravanan

Mr.K.Saravanan
H.O.D

R. Arokiadass

Dr.R.Arokiadass
Principal



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Anguchettypalayam, Panruti - Taluk, Cuddalore District - 607106



APPRECIATION LETTER

To

Date: 10.03.2025

Sr. A. Josephine Mary,
Assistant Professor,
Department of Mechanical Engineering,
St. Anne's College of Engineering & Technology,
Anguchettypalayam,
Panruti.

Sub: Letter of Appreciation – Reg

Dear Sir,

Thank you very much for delivering an informative and thought-provoking value-added course (VAC) on “Troubleshooting and Maintenance of BS-4 IC Engine” held from 03.03.2025 to 07.03.2025.

It was a really splendid course that exposed the students to learning about addressing common issues like fuel system problems, ignition problems, and engine performance issues, along with regular maintenance tasks like oil changes and filter replacements. All the first-year students of the Department of Mechanical Engineering participated in this workshop and benefited. So, I appreciate your time and dedicated effort for conducting the workshop.

Looking forward to your cooperation in future as well.

With regards


Dr. R. AROKIADASS, M.E., Ph.D.

Principal

St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti - Taluk, Cuddalore (Dist), Pin: 607 106



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CIRCULAR

(2024-2025)

CIR. No. : SACET/CSE/CIR/05

Date: 02.09.2024

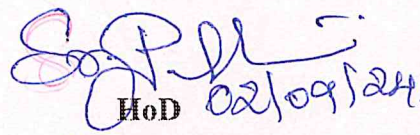
The Department of Computer Science and Engineering has arranged a Value –Added Course (VAC) on “IVA026– Advanced Java Programming ” for Fourth Year (VII-Semester) CSE students.

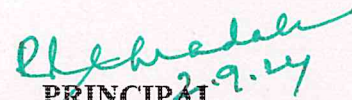
Name of the Resource Person: **Karthik Balaraman**, MCA., M.Tech
CEO, Ocean Academy
(Software Training Division)
An ISO 9001:2015 Certified Institution
Pondicherry - 605 008

Venue: Computer Lab –IV

Date & Time : 03-09-2024 to 09-09-2024 & 9.30 am to 4.30 pm


EVENT CO-ORDINATOR


HoD 02/09/24.
CSE Department,
St. Anne's College of Engineering & Technology,
ANGUCHETTIPALAYAM,
Siruvathur-Post, Panruti-T.k,
Cuddalore-Dist. 607 110


PRINCIPAL 29.08.24
Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology,
ANGUCHETTPALAYAM,
Siruvathur-(Post), Panruti-(T.k).
Cuddalore-(Dist), Pin: 607 110.

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website: www.stannescet.ac.in

Email: stannescet@gmail.com

Department of Computer Science and Engineering
in association with
Computer Science Techxium Association
&

ADVENTURES HUB
Organizes

VALUE ADDED COURSE

on

IVA026-

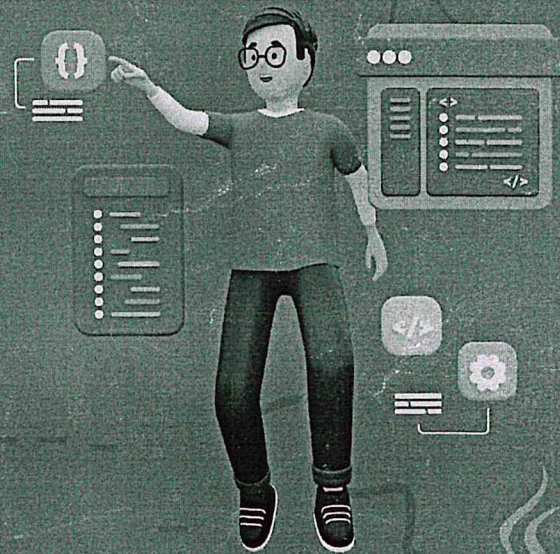
ADVANCED JAVA PROGRAMMING



RESOURCE PERSON



Karthii Balaraman, MCA, M. Tech
CEO, OCEAN ACADEMY
Pondicherry



Java

STAFF CO-ORDINATOR

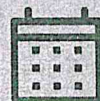
Mr. S. Manavlan AP/CSE

Ms.V.Keerthana AP/CSE



Time

9:30 A.M TO 04:30 P.M



Date

03 SEPTEMBER, 2024
TO
09 SEPTEMBER, 2024



VENUE

Lab 4

IVA026– Advanced Java Programming

L T P C
1 0 1 2

SYLLABUS

Unit-I Introduction and Java Basics

6

Introduction to Java -Overview of Java,Java features,,Java Development Kit (JDK) and Java Runtime Environment (JRE),Java Virtual Machine (JVM),Installing and setting up the Java environment,Writing and executing your first Java program,Java Basics -Java syntax and conventions,Data types and variables,Operators in Java,Control statements: if-else, switch-case,Looping statements: for, while, do-while,Introduction to arrays,Practicing the Logics and CodingBat

Unit-II Object-Oriented Programming in Java (Part 1)

6

Object-Oriented Programming Concepts-Introduction to Object-Oriented Programming (OOP),Classes and objects,Constructors and methods,Access modifiers (private, public, protected, default),The this keyword,Static members and methods,Practice for OOP Concepts using Use Case Scenarios

Unit-III Object-Oriented Programming in Java (Part 2)

6

Advanced OOP Concepts-Encapsulation and data hiding,Inheritance,Method Overloading and Method Overriding,Polymorphism,The **super** and **final** keywords,Abstract classes and interfaces,Practice for OOP Concepts using Use Case Scenarios.

Unit-IV Packages, Exception Handling, and Collections

6

Packages and Exception Handling-Understanding packages,Creating and using packages,Exception handling basics,Types of exceptions,Try-catch-finally block,Throw and throws keyword,Creating custom ,exceptions,Java Collections Framework-Overview of collections,ArrayList, LinkedList,HashSet,HashMap,LinkedHashMap, LinkedHashMap,Iterator,Collections class utility methods

Unit-V Java I/O, Multithreading, and JDBC

6

Java I/O (Input and Output)-File handling in Java,Byte Streams and Character Streams,Reading and writing files,BufferedReader, BufferedWriter,Serialization and Deserialization,Multithreading-Introduction to threads,Creating and running threads,Thread lifecycle and states,Thread synchronization,Inter-thread communication,Daemon threads,Java Database Connectivity (JDBC)-Introduction to JDBC,Types of JDBC drivers,Connecting to a database,Executing SQL queries,PreparedStatement and CallableStatement,ResultSet and ResultSetMetaData,Transaction management

TOTAL NO.OF PERIODS : 30

Learning Outcome:

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

- Understand the concepts related to Java Technology
- Explore and understand use of OOP concepts
- Students learn skills to develop real time applications.
- Develop advanced skills for programming in Java

TEXT BOOKS:

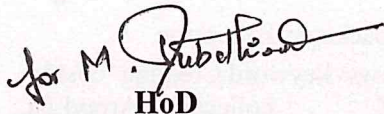
1. Herbert Schildt, "Java: The Complete Reference", 11 th Edition, McGraw Hill Education, New Delhi, 2019
2. 2. Herbert Schildt, "Introducing JavaFX 8 Programming", 1 st Edition, McGraw Hill Education, New Delhi, 2015

REFERENCE:

1. Cay S. Horstmann, "Core Java Fundamentals", Volume 1, 11 th Edition, Prentice Hall, 2018.

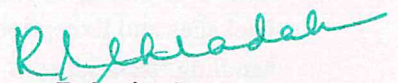
WEB REFERENCES:

1. <https://codecademy.com>
2. <https://w3schools.com>
3. <https://www.coursera.org>
4. https://www.tutorialspoint.com/java_tutorial



HoD

Head of the Department
Department of Computer Science and Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam,
Panruti-(T.k) Cuddalore-(Dist.),Pin:607 106



Principal

Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology,
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 110.



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Accredited by NAAC

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VALUE ADDED COURSE ON ADVANCED JAVA PROGRAMMING

STUDENT REGISTRATION LIST

DATE:: 03/09/2024 TO 09/09/2024

S.NO	REG NUMBER	NAME
1.	422121104001	ABILASH. I
2.	422121104002	ABINAYA M
3.	422121104004	AGNES MARIA.M
4.	422121104005	ARUNPANDI R
5.	422121104006	ASATH. A
6.	422121104007	ASHOK NAVEEN KUMAR. A
7.	422121104008	BALAMURUGAN. R
8.	422121104009	BHAGYASRI S
9.	422121104010	CHANDRAKUMAR V
10.	422121104012	DINESH.S
11.	422121104014	GEETHA R
12.	422121104015	GOPINATH. A
13.	422121104016	ISHWARYA M
14.	422121104017	JAGADEESH.V
15.	422121104018	JAYASRI. B
16.	422121104019	JEEVA A
17.	422121104020	JENISHA.L
18.	422121104021	JEYORGISALISTON B
19.	422121104022	KAMALEESHWARAN.V
20.	422121104023	KANIHA.M
21.	422121104024	KARTHIKA. A
22.	422121104025	KAVIYA S
23.	422121104026	KAVIYAPRIYA. R
24.	422121104027	KAVIYARASAN. V
25.	422121104029	LOGITHKUMAR.A
26.	422121104030	MOHAMED ALI M A
27.	422121104032	MUHAMMAD ANAS S
28.	422121104033	NATHIYA. D
29.	422121104035	PARKAVI. B
30.	422121104036	PIOSHALBI A



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

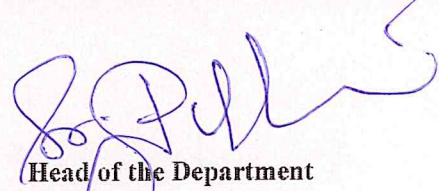
VALUE ADDED COURSE ON ADVANCED JAVA PROGRAMMING

STUDENT REGISTRATION LIST

31.	422121104037	RAGAVINOTHINI.R
32.	422121104038	RAJKUMAR.K
33.	422121104039	RAMKUMAR.M
34.	422121104041	ROSHANWILLSON. V
35.	422121104042	RUBIKA.R
36.	422121104043	SARGUNADEVI C
37.	422121104044	SARMESH.S
38.	422121104045	SHANMUGAPRIYAN.P
39.	422121104046	SOWMIYA G
40.	422121104047	SUJAN. P
41.	422121104048	SUNILKUMAR.S
42.	422121104049	SUSHMITHA.A
43.	422121104050	SUSI. J
44.	422121104051	SUWATHI D N
45.	422121104053	THAMARAISELVAN K
46.	422121104054	UDHAYAKUMAR U
47.	422121104055	VASANTH.F
48.	422121104056	VASANTHAKUMAR V
49.	422121104057	VIDHYA. K
50.	422121104058	VIJAYALAKSHMI.S
51.	422121104059	VINOTH. V
52.	422121104060	VISHNUPRIYA. V
53.	422121104301	ASHIKA S
54.	422121104302	KAMALI R
55.	422121104304	SATHISHKUMAR R

54.	422121104302	KAMALI R	R.bl.	R.bl.	R.bl.	R.bl.	R.bl.	R.bl.	R.bl.	R.bl.	R.bl.	R.bl.
55.	422121104304	SATHISHKUMAR R	Sath	Sath	Sath	Sath	Sath	Sath	Sath	Sath	Sath	Sath


Faculty Coordinator


Head of the Department

Head of the Department
 Department of Computer Science and Engineering
 St. Anne's College of Engineering and Technology
 Anguchettypalayam,
 Panruti-(T.k) Cuddalore-(Dist.), Pin:607 106


 Dr. R. AROKIARASS M.E., Ph.D.,
 Principal,
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

IVA026-ADVANCED JAVA PROGRAMMING

MARKS STATEMENT

S.NO	REG NUMBER	NAME	MARKS
1.	422121104001	ABILASH. I	90
2.	422121104002	ABINAYA M	98
3.	422121104004	AGNES MARIA.M	98
4.	422121104005	ARUNPANDI R	93
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51	422121104059	VINOTH. V	86
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53	422121104301	ASHIKA S	93
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HoD


Head of the Department

Department of Computer Science and Engineering

St. Anne's College of Engineering and Technology

Anguchettypalayam,

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING VALUE ADDED COURSE ON ADVANCED JAVA PROGRAMMING REPORT

The Department of Computer Science and Engineering(CSE) in association with Computer Science Techxium Association (COSTA) & Adaventures Hub has Conducted a Value-added Course on “**IVA026 -Advanced Java Programming**” from 03.09.2024 to 09.09.2024.

Objective:

- To equip students in learning objective in a java programming course and to develop computational thinking skills throughout the educational process.
- Enable students to understand and practical mastery of object-oriented concepts such as classes, objects, data abstraction, methods, method overloading, inheritance and polymorphism.

Report:

The students of the Department of Computer Science and Engineering participated in the course. On the first day of the course, the students were taught about the basics of Java programming, such as Installing Java Virtual machine (JVM) in Windows. The students were separated into batches for hands-on training. On the second day, the students started being taught about Object-Oriented Programming in Java. The students learned to do a java programming using conditional logic and functions with the help of the instructions given by the resource persons. On the third day, the students were taught about programming based on appending /merging data. On the fourth day, the students were taught about Java Programming based on Packages and Exception Handling. On the fifth day, the students were taught about programming at Java I/O, Multithreading, and JDBC.

After completion of every session, students were asked to construct a new program using Java. The students interacted well with the resource persons. At the end of the session, project work has been assigned to them. After completion, students were asked to write a program for project development. Finally, the students gave their valuable feedback about their experience on the course.

The resource person selected the best performers of the course, and they were appreciated at the end of the course. The session ended in a fruitful manner with a vote of thanks.

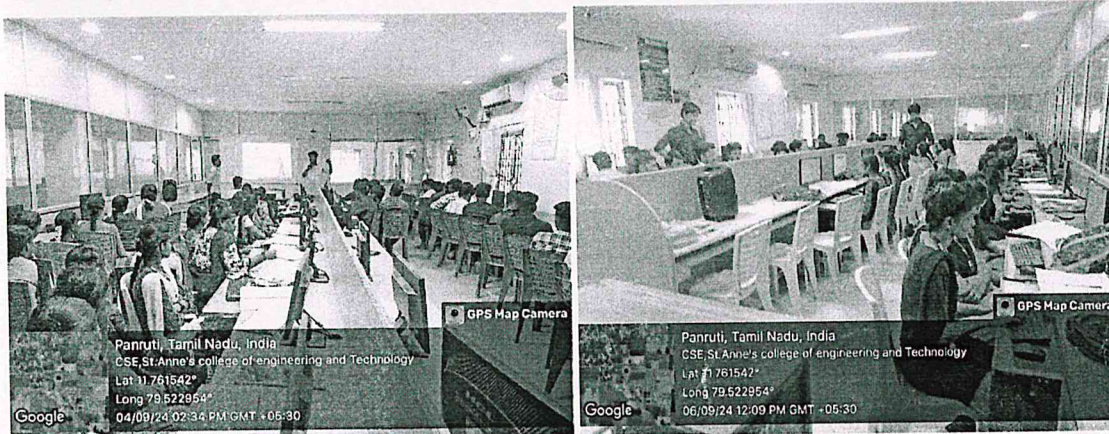
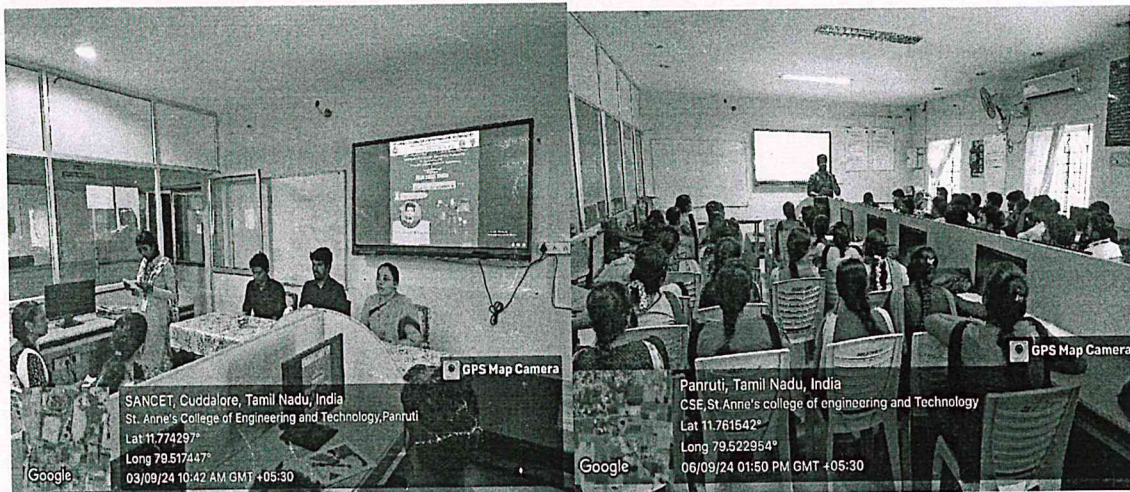


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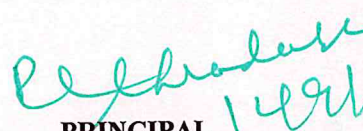
COURSE OUTCOMES:

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

- ✓ Create simple program using Java.
- ✓ Implement Programming based on Static members and methods
- ✓ Construct Java Programming based on Method Overloading and Method Overriding.
- ✓ Construct programming based on Java Collections Framework.
- ✓ Implement Java Database Connectivity (JDBC).


COURSE COORDINATOR


HoD
Head of the Department
Department of Computer Science and Engineering
St. Anne's College of Engineering and Technology
Anguchettipalayam,
Panruti-(T.k) Cuddalore-(Dist.), Pin: 607 106


PRINCIPAL
Dr. R. AROKIADASS, M.E., Ph.D.,
Principal,
St. Anne's College of Engineering & Technology,
ANGUCHETTPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

FEEDBACK ON VALUE ADDED COURSE

SEM/YEAR: VIII/IV

PERIOD: FEB 2025 - MAY 2025

Q. No	Q. TYPE	Questions	Student Count	No. of mark secured					Total Credit	Credit Secured	Percentage
				5	4	3	2	1			
1	V	Course plan	54	8	38	5	1	2	270	211	78%
2	V	Training duration	54	6	38	6	2	2	270	206	76%
3	V	Interactive approach	54	5	40	6	1	2	270	207	77%
4	V	Mode of presentation	54	35	10	6	1	2	270	237	88%
5	V	The course material handed out was adequate	54	7	38	4	2	3	270	206	76%
6	V	Usage of teaching aids and ICT in the class by faculty to facilitate teaching	54	6	38	6	1	3	270	205	76%
7	V	The course exposed you to new knowledge and practices	54	6	38	5	2	3	270	204	76%
8	V	Were objectives of the course clear to you?	54	35	9	6	2	2	270	235	87%
9	V	The course contents met with your expectations	54	36	8	7	1	2	270	237	88%
10	V	How would you rate the overall course content?	54	37	8	4	1	4	270	235	87%

PREPARED BY

K. S. S.

for Department of Computer Science and Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam,
Panruti-(T.k) Cuddalore-(Dist.), Pin: 607 106

R. Arakiadass
Dr. R. AROKIADASS, M.E., Ph.D.,
Principal,
APPROVED BY
St. Anne's College of Engineering & Technology,
ANGUCHETTYPALAYAM,
Cuddalore (Dist.), Panruti-(T.k).



Certificate of Completion

This value added program certificate is proudly awarded to

Miss. ABINAYA . M

from St. Anne's College of Engineering and Technology, Panruti Tamilnadu - 607106.
Department of BE (CSE) for completeing his/her value added course program on
JAVA PROGRAMMING conducted by **OCEAN ACADEMY, PUDUCHERRY**
from **03-09-2024 to 09-09-2024.**



Karthik Balaraman
Founder & Managing Director



Certificate of Completion

This value added program certificate is proudly awarded to

AGNES MARIA.M

from St. Anne's College of Engineering and Technology, Panruti Tamilnadu - 607106.

Department of BE (CSE) for completeing his/her value added course program on

JAVA PROGRAMMING conducted by **OCEAN ACADEMY, PUDUCHERRY**

from **03-09-2024** to **09-09-2024**.



A handwritten signature in black ink, appearing to read 'Karthik Balaraman'.

Karthik Balaraman
Founder & Managing Director



Certificate of Completion

This value added program certificate is proudly awarded to

RAJKUMARI. K

from St. Anne's College of Engineering and Technology, Panruti Tamilnadu - 607106.

Department of BE (CSE) for completeing his/her value added course program on

JAVA PROGRAMMING conducted by **OCEAN ACADEMY, PUDUCHERRY**

from **03-09-2024 to 09-09-2024.**



Handwritten signature of Karthik Balaraman in black ink.

Karthik Balaraman
Founder & Managing Director

Certificate of Completion

This value added program certificate is proudly awarded to

ROSHANWILLSON. V

from St. Anne's College of Engineering and Technology, Panruti Tamilnadu - 607106.

Department of BE (CSE) for completeing his/her value added course program on

JAVA PROGRAMMING conducted by **OCEAN ACADEMY, PUDUCHERRY**

from **03-09-2024** to **09-09-2024**.



Karthik Balaraman
Founder & Managing Director



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (AIML)

CIRCULAR

(2024-2025)

CIR. No: SANCET/AIML/CIR/18

21-02-2025

The department of Computer Science and Engineering (AIML) has arranged a value added course on “Advanced Java Programming” for second year CSE (AIML) students.

Name of the Resource Person: **Ms. R. K. PRIYAVARSHINI**

Mediwave Digital Private Limited,

Pondicherry

Venue: Lab II

Date & Time: 24-02-2025 to 28-02-2025 & 9:30 am to 4:30 pm

K. Kanyal
21/02/25
CO-ORDINATOR

[Signature]
HOD 02/25



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SYLLABUS FOR VALUE ADDED COURSE ON ADVANCED JAVA PROGRAMMING

COURSE OBJECTIVE:

1. The course covers Graphical User Interface (GUI) networking, and database manipulation.
2. Student will be able to use advanced technology in Java such as Internationalization, and Remote method Invocation
3. Student will learn how to work with JavaBeans.
4. Student will be able to develop web application using Java Servlet and Java Server Pages technology.

COURSE CONTENT

DAY 1: Introduction and Java Basics

Introduction to Java -Overview of Java, Java features , Java Development Kit (JDK) and Java Runtime Environment (JRE),Java Virtual Machine (JVM),Installing and setting up the Java environment, Writing and executing your first Java program, Java Basics -Java syntax and conventions, Data types and variables, Operators in Java, Control statements: if-else, switch-case, Looping statements: for, while, do-while, Introduction to arrays, Practicing the Logics and Coding Bat

DAY 2: Object-Oriented Programming in Java (Part 1)

Object-Oriented Programming Concepts-Introduction to Object-Oriented Programming (OOP),Classes and objects, Constructors and methods, Access modifiers (private, public, protected, default),The this keyword, Static members and methods, Practice for OOP Concepts using Use Case Scenarios

DAY 3: Object-Oriented Programming in Java (Part 2)

Advanced OOP Concepts-Encapsulation and data hiding, Inheritance, Method Overloading and Method Overriding, Polymorphism, The super and final keywords, Abstract classes and interfaces, Practice for OOP Concepts using Use Case Scenarios.

DAY 4: Packages, Exception Handling, and Collections

Packages and Exception Handling-Understanding packages, Creating and using packages, Exception handling basics, Types of exceptions, Try-catch-finally block, Throw and throws keyword, Creating custom exceptions, Java Collections Framework-Overview of collections,ArrayList, LinkedList, HashSet, HashMap, Linked HashMap, Linked HashSet, Iterator, Collections class utility methods

DAY 5: Java I/O, Multithreading, and JDBC

Java I/O (Input and Output)-File handling in Java, Byte Streams and Character Streams, Reading and writing files, Buffered Reader, Buffered Writer, Serialization and Deserialization, Multithreading-Introduction to threads, Creating and running threads, Thread lifecycle and states, Thread synchronization ,Inter-thread communication, Daemon threads, Java Database Connectivity (JDBC)-Introduction to JDBC, Types of JDBC drivers, Connecting to a database, Executing SQL queries, Prepared Statement and CallableStatement,ResultSet and Result Set Meta Data, Transaction management

COURSE OUTCOMES:

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

1. Understand the concepts related to Java Technology
2. Explore and understand use of OOP concepts
3. Students learn skills to develop real time applications.
4. Develop advanced skills for programming in Java.

K. Karthik

COORDINATOR

[Signature]
HOD



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (AIML)

VALUE ADDED COURSE ON ADVANCED JAVA PROGRAMMING

Student Registration List

DEPT: CSE

DATE: 24.02.2025 to 28.02.2025

S.NO	REG.NO	STUDENT NAME
1	422123148001	ABINAYA K
2	422123148002	ABINAYAA R
3	422123148004	ADHISAKTHI V
4	422123148005	ANANDA SABESAN S
5	422123148006	BALA S
6	422123148009	BARANIDHARAN R
7	422123148010	BARATH.B
8	422123148011	BAVYA B
9	422123148012	BHARATHI A
10	422123148013	BHUVANESHWARI M G
11	422123148014	DEEBAEESWAR M
12	422123148016	DINESH S K
13	422123148017	ELAVARASAN M
14	422123148018	GOKUL S
15	422123148019	KALKI J
16	422123148020	KANCHANA.K
17	422123148021	KANMANIE
18	422123148022	KARTHIHA C
19	422123148023	KEERTHIRAJAN L
20	422123148024	LAKSHMIPATHI M
21	422123148025	MELVIN CHANDER PAUL L
22	422123148026	PRADEEPKUMAR S
23	422123148027	PRAVEENA A
24	422123148028	PRIYADHARSHINI G
25	422123148030	RAJESHWARI V
26	422123148031	RINEETH S
27	422123148032	SAHAYA AKSHARAN K
28	422123148033	SANKARIM
29	422123148034	SANTHOSH KUMAR M
30	422123148035	SATHIYAPRIYA S
31	422123148036	SHARON RAJ K
32	422123148037	SHYLUNIHITHA S
33	422123148038	SIVADHARSHINI G
34	422123148039	SIVAPRIYA M
35	422123148040	SRINATH B
36	422123148041	SUJITHA S
37	422123148042	SUMIDHA K
38	422123148043	THIRUVALLUVAN M
39	422123148044	UDHAYASURIYAN S
40	422123148045	VAHITHKHAN K
41	422123148047	VJAYABALAN A
42	422123148048	VINDHIYA P

K. Karthikeyan
COORDINATOR

[Signature]
HOD



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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ANGI CHETTY PALAYAM, PANRUTI - 607 106.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING) VALUE ADDED COURSE ON ADVANCED JAVA PROGRAMMING ATTENDANCE SHEET

YEAR / SEM: II / IV

S.NO	REG NUMBER	NAME	24.02.2025	25.02.2025	26.02.2025	27.02.2025	28.02.2025
1.	422123148001	ABINAYA K	Abinaya K	Abinaya K	Abinaya K	Abinaya K	Abinaya K
2.	422123148002	ABINAYAA R	R. Abinayaa	R. Abinayaa	R. Abinayaa	R. Abinayaa	R. Abinayaa
3.	422123148004	ADHISAKTHI V	V. Adhisakthi	V. Adhisakthi	V. Adhisakthi	V. Adhisakthi	V. Adhisakthi
4.	422123148005	ANANDA SABESAN S	S. Ananda Sabesan	S. Ananda Sabesan	S. Ananda Sabesan	S. Ananda Sabesan	S. Ananda Sabesan
5.	422123148006	BALA S	Bala S	Bala S	Bala S	Bala S	Bala S
6.	422123148009	BARANIDHARAN R	R. Baranidharan	R. Baranidharan	R. Baranidharan	R. Baranidharan	R. Baranidharan
7.	422123148010	BARATH.B	Barath B	Barath B	Barath B	Barath B	Barath B
8.	422123148011	BAVYA B	B. Bavya	B. Bavya	B. Bavya	B. Bavya	B. Bavya
9.	422123148012	BHARATHI A	A. Bharathi	A. Bharathi	A. Bharathi	A. Bharathi	A. Bharathi
10.	422123148013	BHUVANESHWARI M G	M.G. Bhuvaneshwari	M.G. Bhuvaneshwari	M.G. Bhuvaneshwari	M.G. Bhuvaneshwari	M.G. Bhuvaneshwari
11.	422123148014	DEEBAEESWAR M	M. Deebaeeswar	M. Deebaeeswar	M. Deebaeeswar	M. Deebaeeswar	M. Deebaeeswar
12.	422123148016	DINESH S K	S. Dinesh	S. Dinesh	S. Dinesh	S. Dinesh	S. Dinesh
13.	422123148017	ELAVARASAN M	M. Elavarasan	M. Elavarasan	M. Elavarasan	M. Elavarasan	M. Elavarasan
14.	422123148018	GOKUL S	S. Gokul	S. Gokul	S. Gokul	S. Gokul	S. Gokul
15.	422123148019	KALKI J	J. Kalki	J. Kalki	J. Kalki	J. Kalki	J. Kalki
16.	422123148020	KANCHANA.K	K. Kanchana	K. Kanchana	K. Kanchana	K. Kanchana	K. Kanchana
17.	422123148021	KANMANIE	E. Kanmanie	E. Kanmanie	E. Kanmanie	E. Kanmanie	E. Kanmanie
18.	422123148022	KARTHIHA C	C. Karthiha	C. Karthiha	C. Karthiha	C. Karthiha	C. Karthiha
19.	422123148023	KEERTHIRAJAN L	L. Keerthirajan	L. Keerthirajan	L. Keerthirajan	L. Keerthirajan	L. Keerthirajan
20.	422123148024	LAKSHMIPATHI M	M. Lakshmi Pathi	M. Lakshmi Pathi	M. Lakshmi Pathi	M. Lakshmi Pathi	M. Lakshmi Pathi



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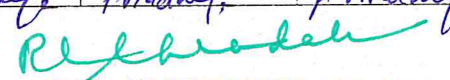
Accredited by NAAC

ANGUCHETTYPALAYAM, PANRUTI - 607 106.

21.	422123148025	MELVIN CHANDER PAUL L	L.Melvin Paul	L.Melvin Paul	L.Melvin Paul	L.Melvin Paul	L.Melvin Paul
22.	422123148026	PRADEEPAKUMAR S	S.Pradeep Kumar	S.Pradeep Kumar	S.Pradeep Kumar	S.Pradeep Kumar	S.Pradeep Kumar
23.	422123148027	PRAVEENA A	A.Praveena	A.Praveena	A.Praveena	A.Praveena	A.Praveena
24.	422123148028	PRIYADHARSHINI G	G.Priyadharsini	G.Priyadharsini	G.Priyadharsini	G.Priyadharsini	G.Priyadharsini
25.	422123148030	RAJESHWARI V	V.Rajeshwari	V.Rajeshwari	V.Rajeshwari	V.Rajeshwari	V.Rajeshwari
26.	422123148031	RINEETH S	S.Rineeth	S.Rineeth	S.Rineeth	S.Rineeth	S.Rineeth
27.	422123148032	SAHAYA AKSHARAN K	K.Sahaya Aksharan	K.Sahaya Aksharan	K.Sahaya Aksharan	K.Sahaya Aksharan	K.Sahaya Aksharan
28.	422123148033	SANKARI M	M.Sankari	M.Sankari	M.Sankari	M.Sankari	M.Sankari
29.	422123148034	SANTHOSH KUMAR M	M.Santhosh Kumar	M.Santhosh Kumar	M.Santhosh Kumar	M.Santhosh Kumar	M.Santhosh Kumar
30.	422123148035	SATHIYAPRIYA S	S.Sathyapriya	S.Sathyapriya	S.Sathyapriya	S.Sathyapriya	S.Sathyapriya
31.	422123148036	SHARON RAJ K	K.Sharon Raj	K.Sharon Raj	K.Sharon Raj	K.Sharon Raj	K.Sharon Raj
32.	422123148037	SHYLUNI HITHA S	S.Shylni Hitha	S.Shylni Hitha	S.Shylni Hitha	S.Shylni Hitha	S.Shylni Hitha
33.	422123148038	SIVADHARSHINI S	S.Sivadharsini	S.Sivadharsini	S.Sivadharsini	S.Sivadharsini	S.Sivadharsini
34.	422123148039	SIVAPRIYA M	M.Sivapriya	M.Sivapriya	M.Sivapriya	M.Sivapriya	M.Sivapriya
35.	422123148040	SRINATH B	B.Srinath	B.Srinath	B.Srinath	B.Srinath	B.Srinath
36.	422123148041	SUJITHA S	S.Sujitha	S.Sujitha	S.Sujitha	S.Sujitha	S.Sujitha
37.	422123148042	SUMIDHA K	K.Sumidha	K.Sumidha	K.Sumidha	K.Sumidha	K.Sumidha
38.	422123148043	THIRUVALLUVAN M	M.Thiruvalluvan	M.Thiruvalluvan	M.Thiruvalluvan	M.Thiruvalluvan	M.Thiruvalluvan
39.	422123148044	UDHAYASURIYAN S	S.Udhayasuriyan	S.Udhayasuriyan	S.Udhayasuriyan	S.Udhayasuriyan	S.Udhayasuriyan
40.	422123148045	VAHITH KHAN K	K.Vahith Khan	K.Vahith Khan	K.Vahith Khan	K.Vahith Khan	K.Vahith Khan
41.	422123148047	VIJAYABALAN A	A.Vijayabalan	A.Vijayabalan	A.Vijayabalan	A.Vijayabalan	A.Vijayabalan
42.	422123148048	VINDHIYA P	P.Vindhija	P.Vindhija	P.Vindhija	P.Vindhija	P.Vindhija


COORDINATOR


HOD Department
Department of CSE
(Artificial Intelligence and Machine Learning)
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.), Pin: 607 106


PRINCIPAL Dr. R. AROKIADASS, M.E., Ph.D.,
Principal,
St. Anne's College of Engineering & Technology
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k).



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (AIML)

VALUE ADDED COURSE ON ADVANCED JAVA PROGRAMMING

ASSESSMENT MARKS

DEPT: CSE(AIML)

DATE: 24.02.2025 to 28.02.2025

S.NO	REG.NO	STUDENT NAME	MARK 100
1.	422123148001	ABINAYA K	90
2.	422123148002	ABINAYAA R	75
3.	422123148004	ADHISAKTHI V	80
4.	422123148005	ANANDA SABESAN S	90
5.	422123148006	BALA S	85
6.	422123148009	BARANIDHARAN R	95
7.	422123148010	BARATH.B	86
8.	422123148011	BAVYA B	80
9.	422123148012	BHARATHI A	96
10.	422123148013	BHUVANESHWARI M G	98
11.	422123148014	DEEBAEESWAR M	86
12.	422123148016	DINESH S K	82
13.	422123148017	ELAVARASAN M	90
14.	422123148018	GOKUL S	91
15.	422123148019	KALKI J	96
16.	422123148020	KANCHANA.K	98
17.	422123148021	KANMANIE	93
18.	422123148022	KARTHIHA C	90
19.	422123148023	KEERTHIRAJAN L	92
20.	422123148024	LAKSHMIPATHI M	89
21.	422123148025	MELVIN CHANDER PAUL L	86
22.	422123148026	PRADEEPKUMAR S	90
23.	422123148027	PRAVEENA A	90
24.	422123148028	PRIYADHARSHINI G	92
25.	422123148030	RAJESHWARI V	90
26.	422123148031	RINEETH S	83
27.	422123148032	SAHAYA AKSHARAN K	90
28.	422123148033	SANKARIM	92
29.	422123148034	SANTHOSH KUMAR M	96
30.	422123148035	SATHIYAPRIYA S	92
31.	422123148036	SHARON RAJ K	98
32.	422123148037	SHYLUNI HITHA S	95
33.	422123148038	SIVADHARSHINI G	93
34.	422123148039	SIVAPRIYA M	94
35.	422123148040	SRINATH B	89
36.	422123148041	SUJITHA S	88
37.	422123148042	SUMIDHA K	94
38.	422123148043	THIRUVALLUVAN M	82
39.	422123148044	UDHAYASURIYAN S	90
40.	422123148045	VAHITHKHAN K	92
41.	422123148047	VJAYABALAN A	AB
42.	422123148048	VINDHIYA P	97

K. Kalyan
COORDINATOR

HOD



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (AIML)

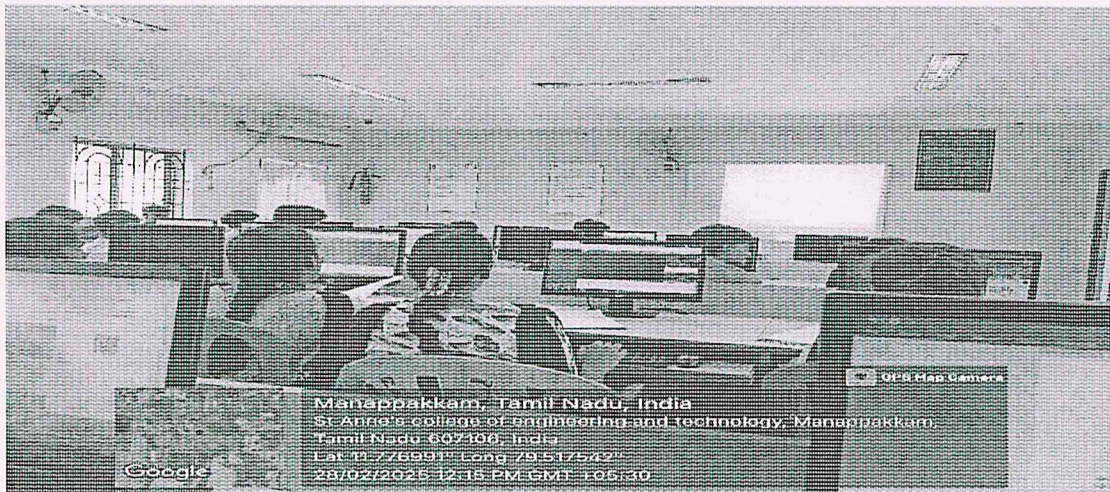
ADVANCED JAVA PROGRAMMING – REPORT

The Department of Computer science and engineering (AIML) has planned to organize a five-day value-added course on “ADVANCED JAVA PROGRAMMING” for Second year AIML students from 24.02.2025 to 28.02.2025.

Resource person, during this value-added course delivered the content like Overview of Java, OOPs Concepts, JDBC drivers, Methods and Packages and Exception Handling.



STUDENTS AT LECTURE SESSION



STUDENTS AT PRACTICAL SESSION

After the completion of the course, the students will be able to know about the Core java and its applications, understand about java frameworks like servlets, JVM & JRE. At the end of lecture, feedbacks were collected from students. Students gained the knowledge about Placement drive and Self growth. The lecture was very useful to students.

K. Karthik
COORDINATOR

[Signature]
HOD

[Signature]
PRINCIPAL



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)

FEEDBACK ON VALUE ADDED COURSE

SEM / YEAR: II / IV

PERIOD: FEB 2025 – MAY 2025

Q. No	Q. TYPE	Questions	Student Count	No. of mark secured					Total Credit	Credit Secured	Percentage
				5	4	3	2	1			
1	V	Course plan	41	30	11	0	0	0	205	194	95%
2	V	Training duration	41	18	18	5	0	0	205	177	86%
3	V	Interactive approach	41	24	12	5	0	0	205	183	89%
4	V	Mode of presentation	41	6	30	5	0	0	205	165	80%
5	V	The course material handed out was adequate	41	18	12	11	0	0	205	171	83%
6	V	Usage of teaching aids and ICT in the class by faculty to facilitate teaching	41	6	35	0	0	0	205	170	83%
7	V	The course exposed you to new knowledge and practices	41	30	6	5	0	0	205	189	92%
8	V	Were objectives of the course clear to you?	41	12	24	5	0	0	205	171	83%
9	V	The course contents met with your expectations	41	24	11	6	0	0	205	182	89%
10	V	How would you rate the overall course content?	41	24	6	11	0	0	205	177	86%

PREPARED BY

Head of the Department

Department: CSE

(Artificial Intelligence and Machine Learning)

St. Anne's College of Engineering and Technology
Anguchettipalayam, Panruti-(T.k) Cuddalore-(Dist.), Pin: 607 106

Dr. R. AROKIADASS, M.E., Ph.D.,
Principal,

ANGUCHETTPALAYAM, PANRUTI

St. Anne's College of Engineering & Technology
ANGUCHETTPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist). Pin: 607 110.



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CERTIFICATE

OF PARTICIPATION

This certificate is awarded to

ANANDA SABESAN S

has successfully completed the Value Added Course on **“Advanced Java Programming”** conducted from **24/02/2025 to 28/02/2025**. Your contribution is truly appreciated, and we hope this experience inspires continued growth and learning.

Priya Varshini



Miss. R. K. Priyavarshini

Course Facilitator

R. Arokiadass



Dr. R. Arokiadass

Principal

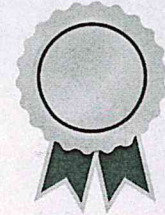


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ANGUCHETTYPALAYAM, PANRUTI -607 106.



CERTIFICATE

OF PARTICIPATION

This certificate is awarded to

SIVAPRIYA M

has successfully completed the Value Added Course on **“Advanced Java Programming”** conducted from **24/02/2025 to 28/02/2025**. Your contribution is truly appreciated, and we hope this experience inspires continued growth and learning.

Priya Varshini



Miss. R. K.Priyavarshini

Course Facilitator

R. Arokiadass



Dr. R. Arokiadass

Principal



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ANGUCHETTPALAYAM, PANRUTI -607 106.



CERTIFICATE

OF PARTICIPATION

This certificate is awarded to

BHUVANESHWARI M G

has successfully completed the Value Added Course on **“Advanced Java Programming”** conducted from **24/02/2025 to 28/02/2025**. Your contribution is truly appreciated, and we hope this experience inspires continued growth and learning.

Priya Varshini



Miss. R. K. Priyavarshini

Course Facilitator

R. Arokiadass



Dr. R. Arokiadass

Principal



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CIRCULAR

(2024 – 2025)

CIR. No: SANCET/ECE/CIR/18

14.02.2025

The Department of Electronics and Communication has arranged Value added course on “**Smart Coding with MicroPython: Raspberry Pi Pico Essentials**” for Second and Third Year ECE students.

Name of the Resource Person: **Mr. S. BALABASKER, M.E,**

Assistant Professor

Department of Electronics & Communication Engineering

St. Annes's College of Engineering and Technology

Mr. B. ARUNKUMAR, M.E,

Assistant Professor

Department of Electronics & Communication Engineering

St. Annes's College of Engineering and Technology

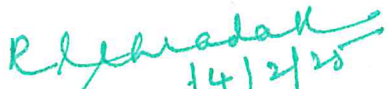
Venue: VLSI Laboratory

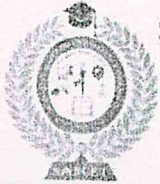
Date & Time: 17.02.2025 to 21.02.2025 & 9.30 am to 4.30 pm


S. Durai 14/2/2025
EVENT CO-ORDINATOR


HoD 14/2/2025

Head of the Department
Department of Electronics and Communication Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.), Pin: 607 106


PRINCIPAL 14/2/25
Dr. R. AROXIADASS, M.E., Ph.D.,
Principal,
St. Anne's College of Engineering & Technology
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 106



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Anguchettypalayam, Panruti Taluk, Cuddalore District, Tamilnadu-607 106



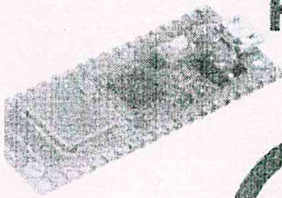
Department of Electronics and Communication Engineering

in association with

Electro Spark(ECE Incubation Center)

organizes Five Days Value Added Course on

Smart Coding with MicroPython: Raspberry Pi Pico Essentials



RESOURCE PERSON



Mr. S. BALABASKER, M.Tech

Assistant Professor/ECE

St. Anne's CET



Mr. B. ARUNKUMAR, M.E

Assistant Professor/ECE

St. Anne's CET

DATE: 17.02.2025 -21.02.2025

VENUE: VLSI LAB



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

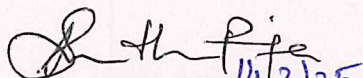
SMART CODING WITH MICROPYTHON: RASPBERRY PI PICO ESSENTIALS

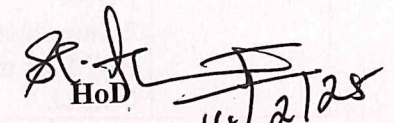
SESSION PLAN

DATE	9.30AM-10.45AM	10.45AM-11.00AM	11.00AM-12.15PM	12.15PM-1.00PM	1.00PM-2.45PM	2.45PM-3.00PM	3.00-4.30PM
17.02.2025	Introduction & Basic I/O Control ♦ Introduction to Raspberry Pi Pico & Micro Python 1. Overview of Raspberry Pi Pico & Micro Python. 2. Setting up Thonny IDE & writing the first script.	BREAK	♦ LED & Multi-LED Control Blinking an LED using GPIO Controlling 3 LEDs independently	LUNCH	♦ Traffic Light System 1. Implementing a basic traffic light system using LEDs 2. Adding delays and logic for real-world simulation	BREAK	♦ Seven-Segment Display 1. Displaying numbers using single 7-segment display. 2. Multiplexing for multi-digit displays
18.02.2025	PWM, Sensors & Display Modules ♦ PWM (Pulse Width Modulation) 1. Controlling LED brightness with PWM. 2. Introduction to PWM for motor control.	BREAK	♦ Joystick-Based LED Control 1. Reading joystick values. 2. Mapping joystick movement to LED actions.	LUNCH	♦ LCD Display (16x2) & User Interface 1. Interfacing an LCD display with Pico. 2. Displaying sensor values on LCD.	BREAK	♦ IR Sensor & Motion Detection 1. Reading values from an IR sensor 2. Implementing obstacle detection

Head of the Department
 Department of Electronics and Communication Engineering
 St. Anne's College of Engineering and Technology
 Anguchetty Palayam, Panruti - 607 106

19.02.2025	Wireless & Relay Control ◆ Bluetooth Communication 1. Setting up Bluetooth module (HC-05/HC-06). 2. Controlling LEDs or motors via Bluetooth commands	BREAK	◆ Relay Control 1. Understanding relay operation. 2. Controlling home appliances (bulb, fan) using relay	LUNCH	◆ DHT11 Sensor (Temperature & Humidity) ↓ 1. Reading data from DHT11 2. Displaying temperature and humidity on LCD	BREAK	◆ LDR Sensor & Light-Based Automation 1. Reading LDR sensor values 2. Implementing an automatic light control system
20.02.2025	Motor Control & Interrupts ◆ DC Motor Control 1. Controlling DC motors using transistors & PWM. 2. Implementing speed control	BREAK	◆ Servo Motor Control 1. Understanding servo motors 2. Position control using PWM	LUNCH	◆ Stepper Motor Control 1. Driving a stepper motor with Pico. 2. Implementing directional rotation control	BREAK	◆ Interrupts & Timers 1. Understanding hardware interrupts 2. Using timers for precise task execution
21.02.2025	Advanced Application & Final Project ◆ Buzzer & Switch Interfacing 1. Using a buzzer for alerts (e.g., alarm system) 2. Switch-based input handling	BREAK	◆ Final Project: Smart Embedded System Students choose a project (e.g., Smart Traffic Light, IoT Home Automation, Sensor-Based System)	LUNCH	Implement multiple sensors & actuators	BREAK	Debugging & optimizing the project


 Course Incharge
 14/2/25


 HoD
 14/2/25

Head of the Department
 Department of Electronics and Communication Engineering
 St. Arne's College of Engineering and Technology
 Anguchettyalayam, Panruti-(T.K) Cuddalore-(Dist.), Pin: 607 106



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

III YEAR STUDENT NAME LIST

S.NO	REGISTER NUMBER	NAME
1	422122106001	AAKASH.A
2	422122106002	ABINAYA.M
3	422122106003	AJAYKRISHNA.V
4	422122106004	ALEX DOMINIC A
5	422122106005	AMIRDHA VARSHAN. V
6	422122106006	ANTHONIDANIYAL.A
7	422122106007	ARAVINDH E
8	422122106008	ARCHANA A
9	422122106009	ARTHIS
10	422122106010	ARUN N
11	422122106012	BALAJI. P
12	422122106013	BALAJI. S
13	422122106014	CHANDRU P
14	422122106015	CHERISHMA R
15	422122106016	DESIKA.M
16	422122106017	DEVAGURU S
17	422122106018	DHAMOTHARAN.K
18	422122106019	DHINESH.D
19	422122106020	DHIVYA.T
20	422122106021	GOBINATH.B
21	422122106022	JEEVITHA.V
22	422122106023	KALAIMATHI.R
23	422122106025	KAVIPRIYA.P
24	422122106026	KUMARAN.A
25	422122106027	MAHALAKSHMI R
26	422122106029	MONIKA.M
27	422122106031	MURALI.M
28	422122106033	NAVITHA.A
29	422122106034	NIRANJAN P
30	422122106035	PARASURAMAN P
31	422122106036	PATTABIRAMAN.T
32	422122106037	PAVITHRA V
33	422122106038	PRATHEEBA. K
34	422122106039	PREMKUMAR E
35	422122106040	PRIYADHARSHAN.G
36	422122106041	RAJLN
37	422122106042	RAMANA A



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38	422122106043	SAKTHI R
39	422122106044	SANKARI S
40	422122106045	SASIREKA.M
41	422122106046	SATHISKUMAR E
42	422122106047	SIVAGAMASUNDARI S
43	422122106048	SIVARAMAN.S
44	422122106049	SIVA SELVAM KE
45	422122106050	SRIMATHI S
46	422122106051	SUBASHINI S
47	422122106052	SUJITHA.K
48	422122106053	SURESH S
49	422122106054	SURYA K
50	422122106055	THANGAPANDIYAN.M
51	422122106056	THIRUMALAIVASAN.S
52	422122106058	VINOTHKUMAR.D
53	422122106701	LAKSHMI S

II YEAR STUDENT NAME LIST

S.NO	REGISTER NUMBER	NAME
1	422123106001	ABINAYA S
2	422123106002	ALWIN A
3	422123106003	ARJUNAN A
4	422123106004	ARUL MURUGAN T
5	422123106006	BAIRAVI V
6	422123106007	BALAJI M
7	422123106008	DEVI SRI B
8	422123106009	DHINESH D
9	422123106010	DHIVYADHARSHINI K
10	422123106011	DIVYA R
11	422123106012	DURAIMURUGAN K
12	422123106013	DURAISELVAM B
13	422123106014	GUNA P
14	422123106015	HARIKRISHNAN B
15	422123106016	JAYADHARSHAN J
16	422123106017	JAYASRI B
17	422123106018	JAYASURIYA VK
18	422123106019	KAMALINISHA SM
19	422123106020	LITHESWARAN S
20	422123106021	MANO PREETHI A



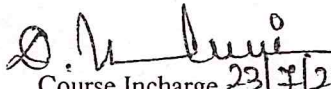
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21	422123106022	MOHAMED RAFIL N
22	422123106023	MOHANBARATH M
23	422123106024	PRASANTH M
24	422123106025	PRAVEENA N
25	422123106026	PRAVEENKUMAR P
26	422123106027	RABINRAJ G
27	422123106028	ROHAN RAJ A
28	422123106029	SANGEETHA K
29	422123106030	SANTHANA KRISHNAN P
30	422123106031	SENTHAMIZHSELVI R
31	422123106032	SIBI G
32	422123106033	SIVARANJANI K
33	422123106034	SRIRANJANI K
34	422123106035	SURENDIRAPRABU S
35	422123106036	SWEETY PORCIA V
36	422123106037	VARTHIKA S
37	422123106039	VISHWA J


Course Incharge 23/7/24


Head of the Department 23/7/24

(with date & seal)

LCE Department

St. Anne's College of Engineering & Technology

ANGUCHETTIPALAYAM,

Viruvathur-Post, Panruti Taluk,

Tamil Nadu - 607 106.

21	422123106024	Prasanth M	M.Prasanth	M.Prasanth	M.Prasanth	M.Prasanth	M.Prasanth	M.Prasanth	M.Prasanth	M.Prasanth	M.Prasanth	M.Prasanth
22	422123106027	Rabinraj G	G.Rabinraj	G.Rabinraj	G.Rabinraj	G.Rabinraj	G.Rabinraj	G.Rabinraj	G.Rabinraj	G.Rabinraj	G.Rabinraj	G.Rabinraj
23	422123106028	Rohan Raj A	A.Rohan Raj	A.Rohan Raj	A.Rohan Raj	A.Rohan Raj	A.Rohan Raj	A.Rohan Raj	A.Rohan Raj	A.Rohan Raj	A.Rohan Raj	A.Rohan Raj
24	422123106029	Sangeetha K	K.Sangeetha	K.Sangeetha	K.Sangeetha	K.Sangeetha	K.Sangeetha	K.Sangeetha	K.Sangeetha	K.Sangeetha	K.Sangeetha	K.Sangeetha
25	422123106030	Santhana Krishnan P	P.Santhana	P.Santhana	P.Santhana	P.Santhana	P.Santhana	P.Santhana	P.Santhana	P.Santhana	P.Santhana	P.Santhana
26	422123106031	Senthamizhselvi R	a	a	a	a	a	a	a	a	a	a
27	422123106032	Sibi G	G.Sibi	G.Sibi	G.Sibi	G.Sibi	G.Sibi	G.Sibi	G.Sibi	G.Sibi	G.Sibi	G.Sibi
28	422123106033	Sivaranjani K	K.Sivara	K.Sivara	K.Sivara	K.Sivara	K.Sivara	K.Sivara	K.Sivara	K.Sivara	K.Sivara	K.Sivara
29	422123106034	Sriranjani K	K.Sriranja	K.Sriranja	K.Sriranja	K.Sriranja	K.Sriranja	K.Sriranja	K.Sriranja	K.Sriranja	K.Sriranja	K.Sriranja
30	422123106035	Surendiraprabu S	S.Surendir	S.Surendir	S.Surendir	S.Surendir	S.Surendir	S.Surendir	S.Surendir	S.Surendir	S.Surendir	S.Surendir
31	422123106036	Sweety Porcia V	V.Sweet	V.Sweet	V.Sweet	V.Sweet	V.Sweet	V.Sweet	V.Sweet	V.Sweet	V.Sweet	V.Sweet
32	422123106037	Varthika S	S.Varthika	S.Varthika	S.Varthika	S.Varthika	S.Varthika	S.Varthika	S.Varthika	S.Varthika	S.Varthika	S.Varthika
33	422123106039	Vishwa J	J.Vishwa	J.Vishwa	J.Vishwa	J.Vishwa	J.Vishwa	J.Vishwa	J.Vishwa	J.Vishwa	J.Vishwa	J.Vishwa
34	422123106701	Sanjai.S	S.Sanjai	S.Sanjai	S.Sanjai	S.Sanjai	S.Sanjai	S.Sanjai	S.Sanjai	S.Sanjai	S.Sanjai	S.Sanjai

S. H. P. J. A.
21/2/25
CO-ORDINATOR

S. K.
21/2/25
HoD

P. S. S. S.
21/2/25
PRINCIPAL

Head of the Department
Department of Electronics and Communication Engineering
St. Anne's College of Engineering and Technology
Anguchetty
(Dist.) Pin: 607 106

Head of the Department
Department of Electronics and Communication Engineering
St. Anne's College of Engineering and Technology
Anguchetty, Palayam, Pannur (T.N) Oudalor (Dist.), Pin: 607 106



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SMART CODING WITH MICROPYTHON: RASPBERRY PI PICO ESSENTIALS

MARK LIST

Year/Sem: III /VI

Batch: 2022-2026

S. No	REGISTER NO.	NAME	MARKS
1.	422122106001	Aakash.A	85
2.	422122106002	Abinaya.M	90
3.	422122106003	Ajaykrishna.V	86
4.	422122106004	Alex Dominic A	85
5.	422122106005	Amirdha Varshan. V	87
6.	422122106006	Anthonidaniyal.A	AB
7.	422122106007	Aravindh E	91
8.	422122106008	Archana A	92
9.	422122106009	Arthi.S	90
10.	422122106010	Arun N	91
11.	422122106012	Balaji. P	86
12.	422122106014	Chandru P	90
13.	422122106015	Cherishma R	89
14.	422122106016	Desika.M	87
15.	422122106017	Devaguru S	98
16.	422122106018	Dhamotharan.K	80
17.	422122106019	Dhinesh.D	86
18.	422122106020	Dhivya.T	88
19.	422122106021	Gobinath.B	89
20.	422122106022	Jeevitha.V	88
21.	422122106023	Kalaimathi.R	86
22.	422122106025	Kavipriya.P	90
23.	422122106026	Kumaran.A	88
24.	422122106027	Mahalakshmi R	91
25.	422122106029	Monika.M	93
26.	422122106031	Murali.M	85
27.	422122106033	Navitha.A	87
28.	422122106034	Niranjana P	90
29.	422122106035	Parasuraman P	89
30.	422122106036	Pattabiraman.T	89
31.	422122106037	Pavithra V	96
32.	422122106038	Pratheeba. K	96
33.	422122106039	Premkumar E	82
34.	422122106040	Priyadharshan.G	81
35.	422122106041	Raji.N	80
36.	422122106042	Ramana A	90
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38.	422122106044	Sankari S	98
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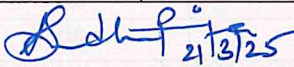
40.	422122106046	Sathiskumar E	93
41.	422122106047	Sivagamasundari S	94
42.	422122106048	Sivaraman.S	80
43.	422122106049	Siva Selvam KE	89
44.	422122106050	Srimathi S	98
45.	422122106051	Subashini S	98
46.	422122106052	Sujitha.K	97
47.	422122106053	Suresh S	96
48.	422122106054	Surya K	92
49.	422122106055	Thangapandiyan.M	80
50.	422122106056	Thirumalaivasan.S	90
51.	422122106058	Vinothkumar.D	AB
52.	422122106502	Lakshmi	99

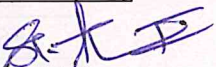
Branch: ECE

Year/Sem: II/IV

Batch: 2023-2027

S.NO	REGISTER NO.	STUDENTS NAME	MARKS
1.	422123106001	Abinaya S	86
2.	422123106002	Alwin A	80
3.	422123106003	Arjunan A	89
4.	422123106004	Arul Murugan T	87
5.	422123106006	Bairavi V	98
6.	422123106007	Balaji M	80
7.	422123106008	Devi Sri B	96
8.	422123106009	Dhinesh D	88
9.	422123106010	Dhivyadharshini E	89
10.	422123106011	Divya R	91
11.	422123106013	Duraiselvam R	90
12.	422123106015	Harikrishnan B	88
13.	422123106017	Jayasri B	93
14.	422123106019	Kamalinisha S M	86
15.	422123106021	Mano Preethi A	90
16.	422123106022	Mohamed Rafil N	89
17.	422123106023	Mohanbarath M	87
18.	422123106024	Prasanth M	98
19.	422123106027	Rabinraj G	80
20.	422123106028	Rohan Raj A	86
21.	422123106029	Sangeetha K	88
22.	422123106030	Santhana Krishnan P	89
23.	422123106032	Sibi G	86
24.	422123106033	Sivaranjani K	90
25.	422123106034	Sriranjani K	98
26.	422123106035	Surendiraprabu S	91
27.	422123106036	Sweety Porcia V	93
28.	422123106037	Varthika S	85
29.	422123106039	Vishwa J	87
30.	422123106701	Sanjai.S	90


21/3/25
EVENT COORDINATOR


HoD

Head of the Department
Department of Electronics and Communication Engineering
St. Ann's College of Engineering and Technology
Ananthapalayam, Pondicherry - 605 006 (Dist) Pin: 607006



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING VAC - REPORT

The Department of Electronics and Communication Engineering (ECE) in association with Electro Spark (ECE Incubation Centre) has arranged five days value-added course (VAC) on “Smart Coding with MicroPython: Raspberry Pi Pico Essentials” for Second and Third Year ECE students from 17.02.2025 to 21.02.2025.

Objective:

- Understand the basics of MicroPython and how it differs from standard Python.
- Learn how to set up and program the Raspberry Pi Pico using MicroPython.
- Explore GPIO control, including working with LEDs, buttons, and sensors.
- Develop skills in serial communication (UART, SPI, and I2C) for interfacing with external devices.
- Implement real-time data processing with MicroPython on Raspberry Pi Pico.
- Understand power management and low-power modes for efficient embedded systems.
- Work with wireless communication (if using Pico W) for IoT applications.
- Gain experience with debugging techniques and handling errors in MicroPython.
- Build and deploy real-world projects using Raspberry Pi Pico and MicroPython.

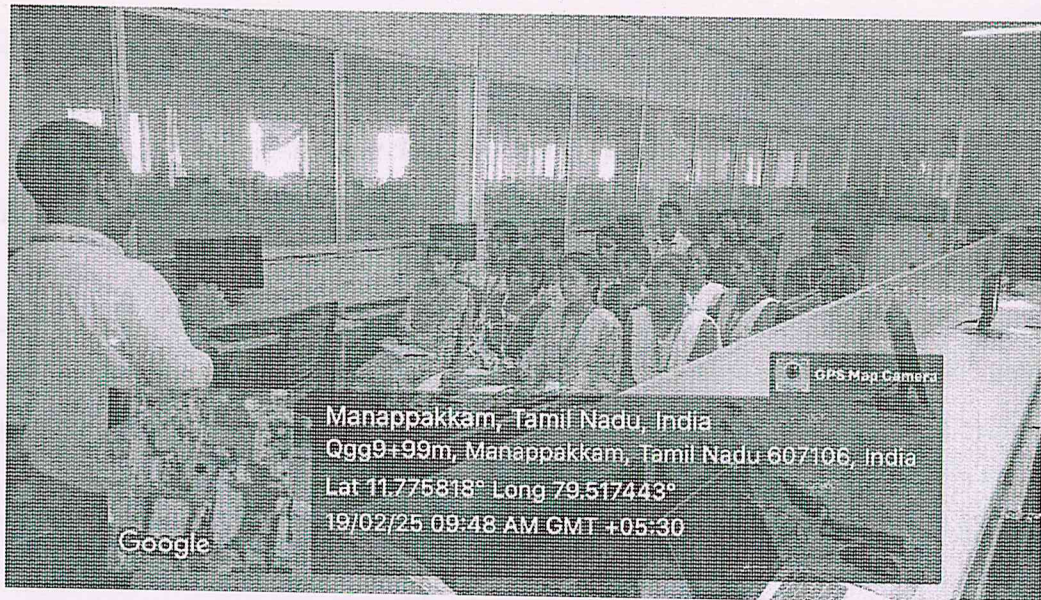
Report:

On the first day of the course, the students were taught about Introduction and Overview of Raspberry Pi Pico & MicroPython. They learnt about Setting up Thonny IDE & writing the first script, blinking an LED using GPIO, Controlling 3 LEDs independently. On the second day students were taught about PWM, Sensors & Display Modules, Joystick-Based LED Control, LCD Display (16x2) & User Interface, IR Sensor & Motion Detection.

On the third day they learnt about Wireless & Relay Control, Bluetooth Communication, Relay Control, DHT11 Sensor (Temperature & Humidity), LDR Sensor & Light-Based Automation. On the fourth day students were taught about DC Motor Control, Servo Motor Control, Stepper Motor Control, and Interrupts & Timers.

On the fifth day students were taught about Buzzer & Switch Interfacing, did final project based on Smart Embedded System. The students started working with implementation of Software based Internet of Things platform by interfacing hardware device. Implementing a sensors and display modules and worked on various motor controls. Finally, the students gave their valuable feedback about their experience in course. The session ended in a fruitful manner with a vote of thanks.

Head of the Department
Department of Electronics and Communication Engineering
St. Anne's College of Engineering and Technology
Anguchetty Palayam, Panruti - 607 106



COURSE OUTCOMES:

After completing the course, learners will be able to:

- Write and execute MicroPython code on Raspberry Pi Pico.
- Interface sensors, actuators, and displays with the Pico.
- Develop automation and IoT applications using MicroPython.
- Use PWM, ADC, and timers for advanced embedded control.
- Communicate between multiple devices using UART, SPI, and I2C.
- Optimize MicroPython code for better performance and efficiency.
- Successfully create and troubleshoot Raspberry Pi Pico-based projects

[Signature]
24/2/25
COURSE CO-ORDINATOR

[Signature]
24/2/25
HoD

[Signature]
24/2/25
PRINCIPAL

Head of the Department
Department of Electronics and Communication Engineering
St. Anne's College of Engineering and Technology
Anguchettipalayam, Panruti-(T.k) Cuddalore-(Dist.) Pin:607 106

Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology,
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore (Dist.) Pin: 607 106



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VALUE ADDED COURSE FEEDBACK

DEPARTMENT: ECE

YEAR: II & III

TITLE: Smart Coding with Micro Python: Raspberry Pi Pico Essentials

DATE:17.02.2025 to 21.02.2025

Q. No	Questions	Student Count	Credit Category					Total Credit	Credit Secured	Percentage
			5	4	3	2	1			
1	Course plan	80	80	0	0	0	0	400	400	100%
2	Training duration	80	36	44	0	0	0	400	356	89%
3	Interactive approach	80	80	0	0	0	0	400	400	100%
4	Mode of presentation	80	40	40	0	0	0	400	360	90%
5	The course material handed out was adequate	80	80	0	0	0	0	400	400	100%
6	Usage of teaching aids and ICT in the class by faculty to facilitate teaching	80	55	25	0	0	0	400	375	93%
7	The course exposed you to new knowledge and practices	80	48	32	0	0	0	400	368	92%
8	Were objectives of the course clear to you?	80	37	43	0	0	0	400	357	89%
9	The course contents met with your expectations	80	45	35	0	0	0	400	235	91%
10	How would you rate the overall course content?	80	39	41	0	0	0	400	233	89%

S. P. J.
25/2/25
PREPARED BY

S. P. J.
25/2/25
VERIFIED BY
Head of the Department
Department of Electronics and Communication Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti (T.K) Cuddalore (Dist.), Pin: 607 106

R. J. S.
25/2/25
APPROVED BY

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Anguchettyalayaam, Panruti- 607 106.

Website: www.stannescet.ac.in

Email stannescet@gmail.com



CERTIFICATE OF PARTICIPATION

This certificate is proudly presented to

Ms.S.Srimathi doing B.E(ECE)

third year at St.Annes College of Engineering and Technology

has participated in Five Days Value Added Course

on

**"Smart coding with Micropyton:Raspberry Pi
Pico Essentials"**

organized by

Department of Electronics and Communication Engineering

in association with

Electronics and Communication Scientia Association

St. Anne's College of Engineering and Technology

from 17.02.2025 to 21.02.2025.

Dr. Sr. S. Anita
Dean of Excellence &
HoD/ECE
SANCET, Panruti

Dr. R. ArokiaDass
Principal
SANCET, Panruti

Website: www.stannescet.ac.in

Email: stannescet@gmail.com

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Anguchettypalayam, Panruti- 607 106.

Website: www.stannescet.ac.in

Email stannescet@gmail.com



CERTIFICATE OF PARTICIPATION

This certificate is proudly presented to

Mr.S.Thirumalaivasan doing B.E(ECE)

third year at St.Annes College of Engineering and Technology

has participated in Five Days Value Added Course

on

**"Smart coding with Micropyton:Raspberry Pi
Pico Essentials"**

organized by

Department of Electronics and Communication Engineering

in association with

Electronics and Communication Scientia Association

St. Anne's College of Engineering and Technology

from 17.02.2025 to 21.02.2025.

Dr. Sr. S. Anita
Dean of Excellence &
HoD/ECE
SANCET, Panruti

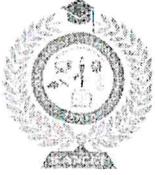
Dr. R. ArokiaDass
Principal
SANCET, Panruti

Website: www.stannescet.ac.in

Email: stannescet@gmail.com

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Anguchettypalayam, Panruti- 607 106.

Website: www.stannescet.ac.in

Email stannescet@gmail.com



CERTIFICATE OF PARTICIPATION

This certificate is proudly presented to

Ms.V.Pavithra doing B.E(ECE)

third year at St.Annes College of Engineering and Technology

has participated in Five Days Value Added Course

on

**"Smart coding with Micropyton:
Raspberry Pi Pico Essentials"**

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St. Anne's College of Engineering and Technology

from 17.02.2025 to 21.02.2025.

Dr. Sr. S. Anita
Dean of Excellence &
HoD/ECE
SANCET, Panruti

Dr. R. ArokiaDass
Principal
SANCET, Panruti

Website: www.stannescet.ac.in

Email: stannescet@gmail.com



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CIRCULAR

(2024 – 2025)

CIR. No: SANCET/ECE/CIR/02

06.08.2024

The Department of Electronics and Communication Engineering has arranged a Value-Added Course (VAC) on “IVA035-Internet of Things (IoT) Application Development” for Final Year (VII-Semester) ECE students.

Name of the Resource Person: **Mr. S. BALABASKER, M.E,**

Assistant Professor

Department of Electronics & Communication Engineering

St. Annes's College of Engineering and Technology

Mr. B. ARUNKUMAR, M.E,

Assistant Professor

Department of Electronics & Communication Engineering

St. Annes's College of Engineering and Technology

Venue: VLSI Lab

Date & Time: 12.08.2024 to 16.08.2024 & 9.30 am to 4.30 pm

S. N. Suresh
6/8/24
EVENT CO-ORDINATOR



S. N. Suresh
6/8/2024
HoD

ECE Department,
St. Anne's College of Engineering & Technology,
ANGUCHETTPALAYAM,
Siruvathur-Post, Panruti-T.k
Cuddalore-Dist. 607 110

R. Aradi
6.8.24
PRINCIPAL

Dr.R.AROKIADASS, M.E., Ph.D.
Principal,
St.Anne's College of Engineering & Technology
ANGUCHETTPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 110.

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 Website: www.stannescet.ac.in Email stannescet@gmail.com

Department of Electronics and Communication Engineering
 in association with
 Electronics and Communication Scientia Association
 organizes value added course
 on

IVA035-Internet of Things(IoT) Application Development

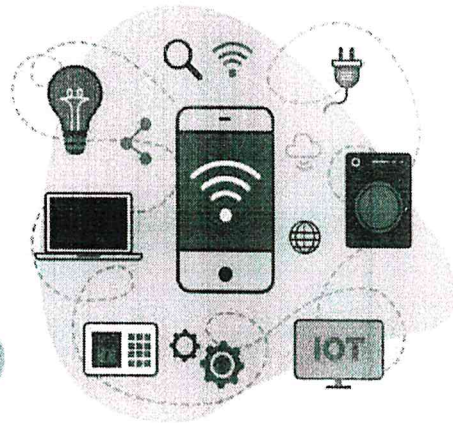
Resource Person



Mr. S. BALABASKER
 Assistant Professor/ECE



Mr. B. ARUN KUMAR
 Assistant Professor/ECE



<p>Staff Co-ordinator Mrs. D. Umamaheswari, AP/ECE Mrs. A. Samadhana Priya, AP/ECE</p>	<p>Date : 12.08.2024 - 16.08.2024 Venue : VLSI LAB Time : 09:30 AM to 04:30 PM</p>
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ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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Value Added Course (Semester -VII)

IVA035 – Internet of Things (IoT) Application Development

L	T	P	C
1	0	2	2

COURSE OBJECTIVES:

To impart knowledge on

- ✓ To know the Hardware Architecture of Arduino Uno & NodeMCU ESP8266
- ✓ To learn the Programming Tools of Arduino
- ✓ To gain knowledge about Arduino Technology with IoT
- ✓ To Program and construct applications using Arduino using a number of different sensors and IoT

SYLLABUS

UNIT-I EMBEDDED C PROGRAMMING FOR ARDUINO

Introduction Arduino IDE, Setting Up Your Environment, Variables, looping statements, Logical Operators, Mathematical operators, functions, Programming with Arduino IDE, Compiling and Debugging using IDE

UNIT-II ARCHITECTURE OF ARDUINO UNO BOARD

Introduction to Arduino Uno, I/O ports Capability of Arduino Uno, analog and digital signals basics & its features, Interfacing of Digital Input (Push Button), Digital Output (LED), Analog Input (Potentiometer), and Analog output (LED brightness control-PWM), Interfacing of LCD using I²C.

UNIT-III ARDUINO APPLICATIONS & LI-FI COMMUNICATION

Development of an algorithm for Temperature Control System, Visitor Counter system, and Traffic Light Control system: Preparation of Bill of materials, Selection of Sensors, Interfacing of Sensors and test the output. Introduction to Li-Fi-based Data communication, Interfacing Li-Fi with Arduino, Application Development with Li-Fi.

UNIT-IV INTRODUCTION TO IoT & BLYNK PLAFTORM

Introduction to IoT and Blynk, Basics of ESP8266 Wifi Module (Node MCU), Overview & hardware architecture of Node MCU, setting up the Hardware, Interfacing with Arduino, Usage of actual pins to control LED, RGB Light, turn on/off high-voltage loads using Relay. Usage of Virtual pins to Detect motion, measure distance, and check light intensity.

UNIT-V IoT APPLICATIONS

Overview of DHT-11/22 Sensor, Creating an IoT based smart agriculture System: Interfacing the Hardware: Node MCU, ESP8266 WiFi Module, Soil moisture sensor, Relay, Submersible pump and DHT-11 Sensor, connecting your Arduino Set-up to Blynk via WiFi, running your Arduino IoT Sensor System, Troubleshooting and Checking Your Data via the blynk mobile and web-based application,

COURSE OUTCOMES:

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

- ✓ The students will be outfitted with hands-on knowledge in IoT using ARDUINO
- ✓ Design and validate the interfacing of different Sensors with Arduino
- ✓ Design hardware and software for a specific application using Arduino
- ✓ Execute coding to gather and process data on the Arduino via the IoT cloud (Blynk platform).



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TEXTBOOKS:

1. Massimo Banzi, "Getting Started with Arduino: The Open Source", Shroff Publishers & Distributors Pvt Ltd, 2014
2. Simon Monk, "Programming Arduino: Getting Started with Sketches", McGraw-Hill Education, Second Edition, 2016
3. Vijay Madiseti and Arshdeep Bahga, "Internet of Things (A Hands-on Approach)", 1st Edition, VPT, 2014

REFERENCE BOOKS:

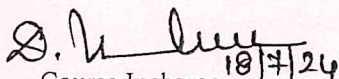
1. Margolis, "Arduino Cookbook", Shroff/O'Reilly Publication, 2nd edition 2012.
2. Francis daCosta, "Rethinking the Internet of Things: A Scalable Approach to Connecting Everything", 1st Edition, Apress Publications, 2013
3. Cuno Pfister, Getting Started with the Internet of Things, O'Reilly Media, 2011,

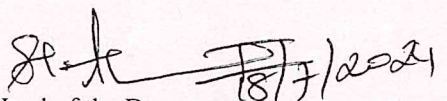
WEB REFERENCES:

1. <https://www.arduino.cc>
2. <https://nptel.ac.in/courses/106/105/106105166/>
3. <https://nptel.ac.in/courses/108/108/108108098/>
4. <https://www.coursera.org/specializations/uiuc-iot>
5. <https://www.riverpublishers.com/pdf/ebook/RP9788793519046.pdf>
6. https://www.tutorialspoint.com/internet_of_things/internet_of_things_tutorial

E-BOOKS

1. <http://library.lol/main/57876BC0DD717B3BA12EBB4872C9B12A>
2. <http://library.lol/main/267A24BCF215FE16B2F37CE7A6B60B0B>
3. <http://library.lol/main/55F89921976625E3C32EF417A7FCA031>


Course Incharge 18/7/24


Head of the Department

(with date & seal)

ECE Department,
St. Anne's College of Engineering & Technology,
ANGUCHETTPALAYAM,
Siruvathur-Post, Panruti-T.E
Cuddalore-Dist. 607 106

21.	Rajamohan P	P.Rajamohan	P.Rajamohan	P.Rajamohan	P.Rajamohan	P.Rajamohan	P.Rajamohan	P.Rajamohan	P.Rajamohan	P.Rajamohan	P.Rajamohan
22.	Sanjai S	S.Sanjai	S.Sanjai	S.Sanjai	S.Sanjai	S.Sanjai	S.Sanjai	S.Sanjai	S.Sanjai	S.Sanjai	S.Sanjai
23.	Sathishkumar P	P.Sathishkumar	P.Sathishkumar	P.Sathishkumar	P.Sathishkumar	P.Sathishkumar	P.Sathishkumar	P.Sathishkumar	P.Sathishkumar	P.Sathishkumar	P.Sathishkumar
24.	Selvakumar S	S.Selvakumar	S.Selvakumar	S.Selvakumar	S.Selvakumar	S.Selvakumar	S.Selvakumar	S.Selvakumar	S.Selvakumar	S.Selvakumar	S.Selvakumar
25.	Senthamizhnila V	V.Senthamizhnila	V.Senthamizhnila	V.Senthamizhnila	V.Senthamizhnila	V.Senthamizhnila	V.Senthamizhnila	V.Senthamizhnila	V.Senthamizhnila	V.Senthamizhnila	V.Senthamizhnila
26.	Srihari K	K.Srihari	K.Srihari	K.Srihari	K.Srihari	K.Srihari	K.Srihari	K.Srihari	K.Srihari	K.Srihari	K.Srihari
27.	Surendhar A	A.Surendhar	A.Surendhar	A.Surendhar	A.Surendhar	A.Surendhar	A.Surendhar	A.Surendhar	A.Surendhar	A.Surendhar	A.Surendhar
28.	Suriya R	R.Suriya	R.Suriya	R.Suriya	R.Suriya	R.Suriya	R.Suriya	R.Suriya	R.Suriya	R.Suriya	R.Suriya
29.	Vaishali S	S.Vaishali	S.Vaishali	S.Vaishali	S.Vaishali	S.Vaishali	S.Vaishali	S.Vaishali	S.Vaishali	S.Vaishali	S.Vaishali
30.	Vignesh K	K.Vignesh	K.Vignesh	K.Vignesh	K.Vignesh	K.Vignesh	K.Vignesh	K.Vignesh	K.Vignesh	K.Vignesh	K.Vignesh
31.	Viswanath N	N.Viswanath	N.Viswanath	N.Viswanath	N.Viswanath	N.Viswanath	N.Viswanath	N.Viswanath	N.Viswanath	N.Viswanath	N.Viswanath

S. M. Luni
EVENT CO-ORDINATOR

S. M. Luni
HoD

**ECE Department,
 St. Anne's College of Engineering & Technology,
 ANGUCHETTIPALAYAM,
 Siruvathur-Post, Panruti-T.k
 Cuddalore-Dist. 607 007.**

R. Arakladas
PRINCIPAL

**Dr. R. AROKIDASS, M.E., Ph.D.,
 Principal,
 St. Anne's College of Engineering & Technology
 ANGUCHETTIPALAYAM,
 Siruvathur-(Post), Panruti-(T.k).
 Cuddalore-(Dist), Pin: 607 110.**



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VAC MARK STATEMENT

VAC TITLE: IVA035-INTERNET OF THINGS APPLICATION DEVELOPMENT

YEAR / SEM: IV/VII

S.No.	REGISTER No.	STUDENT NAME	MARKS (100)
1.	422121106001	ABI E	92
2.	422121106003	ANITHA R	95
3.	422121106005	ARCHANA A	94
4.	422121106006	ARUNDOSS A	AB
5.	422121106007	ASHWIN A	91
6.	422121106008	BALAGURU P	97
7.	422121106009	DEEPIKA K	98
8.	422121106011	DHIVYA A	95
9.	422121106013	DURAIMURUGAN A	94
10.	422121106014	GOPINATH V	96
11.	422121106015	IMMANVEL T	87
12.	422121106016	INBARAJ D	84
13.	422121106017	KARTHIKEYAN U	99
14.	422121106019	MANGALESHWAR U	94
15.	422121106020	MOHAN J	98
16.	422121106021	MOHANA P	98
17.	422121106022	MONISH S	AB
18.	422121106023	PRITHISHA E	92
19.	422121106024	PRIYADHARSHAN E	AB
20.	422121106026	RAGUNATH A	96
21.	422121106027	RAJAMOHAN P	98



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22.	422121106029	SANJAI S	98
23.	422121106030	SATHISHKUMAR P	96
24.	422121106031	SELVAKUMAR S	95
25.	422121106032	SENTHAMIZH NILA V	94
26.	422121106034	SRIHARI K	80
27.	422121106035	SURENDHAR A	AB
28.	422121106036	SURIYA R	96
29.	422121106037	VAISHALI S	98
30.	422121106038	VIGNESH K	85
31.	422121106039	VISWANATH N	90

S. D. S.
COURSE COORDINATOR

S. K. P.
HoD

R. Arokiadass
PRINCIPAL

ECE Department,
St. Anne's College of Engineering & Technology,
ANGUCHETTIPALAYAM,
Siruvathur-Post, Panruti-T. &
Cuddalore-Dist. 607 110

Dr. R. AROKIADASS, M.E., Ph.D.,
Principal,
St. Anne's College of Engineering & Technology,
ANGUCHETTPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist). Pin: 607 110.



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VAC - REPORT

The Department of Electronics and Communication Engineering (ECE) in association with Electro Spark (ECE Incubation Centre) has arranged five days value-added course (VAC) on “IVA035- Internet of Things (IoT) Application Development” for Final Year ECE students from 12.08.2024 to 17.08.2024.

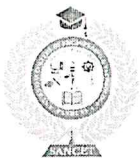
Objective:

- Understand IoT Basics: Learn about the Internet of Things (IoT) and its key concepts.
- Familiarize with Blynk: Gain an understanding of the Blynk platform and how it simplifies IoT development.
- Microcontroller Programming: Learn to program microcontrollers (such as Arduino, ESP8266, etc.) for IoT applications.
- Build IoT Projects: Develop hands-on projects integrating Blynk with sensors and microcontrollers.
- Remote Device Control: Learn to control microcontroller-based systems remotely through a smartphone using Blynk.
- Data Monitoring: Explore how to use Blynk to visualize sensor data in real-time via mobile apps or web dashboards.
- IoT Connectivity: Understand how to connect microcontrollers to the internet using Blynk's cloud services.

Report:

On the first day of the course, the students were taught about basics of Embedded systems and Arduino programming. On the second day students were separated into batches and started with online Hands-on training. The students started working with implementation of Software based Internet of Things platform by interfacing hardware device.

The students learnt to program in Application Development with the help of the instructions given by the resource persons. The students learned to control microcontroller-based systems remotely through a smartphone using Blynk and explored to use Blynk to visualize sensor data in real-time via mobile apps or web dashboards. Around 31 students of Final year ECE Department had participated in this course. Finally, the students gave their valuable feedback about their experience in course. The session ended in a fruitful manner with a vote of thanks.

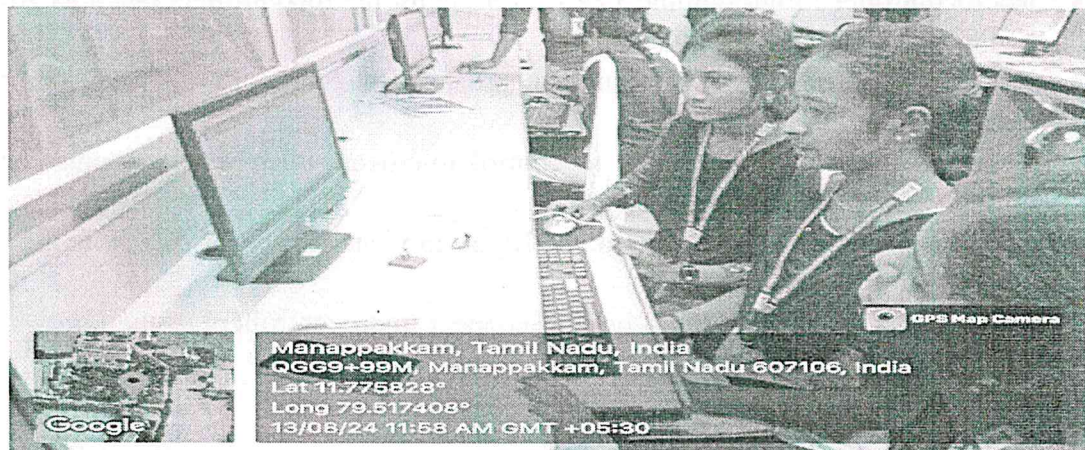


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COURSE OUTCOMES:

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

- Proficiency in Blynk Platform: Participants will be able to confidently use Blynk for IoT projects.
- Hands-on Project Development: Complete one or more IoT projects with working applications, showcasing data visualization and remote control.
- IoT Device Integration Skills: Develop the ability to integrate sensors, actuators, and microcontrollers with the Blynk platform.
- Knowledge of Wireless Connectivity: Understand how to use Wi-Fi or Bluetooth to connect microcontrollers to the Blynk cloud.
- Real-time Monitoring: Be able to monitor and control devices and systems remotely via mobile apps.
- Problem-Solving Skills: Gain practical problem-solving experience by troubleshooting IoT hardware and software issues.

1. *A. V. Srinivas* 7/10/24
 2. *Srinivas* 11/10/24
COURSE CO-ORDINATOR

S. R. Arakiadass 7/10/24
PRINCIPAL
Dr. R. AROKIADASS, M.E., Ph.D.
Principal,
St. Anne's College of Engineering & Technology



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

FEEDBACK ON VALUE ADDED COURSE

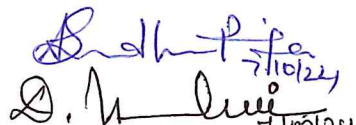
FEEDBACK MODE: GOOGLE FORMS

PERIOD: AUG 2024 – NOV 2024

TITLE: IVA035- Internet of Things (IoT) Application Development

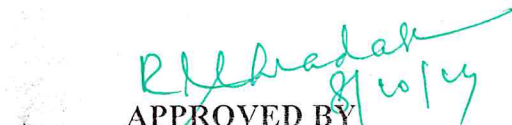
DATE: 12.08.2024 to 17.08.2024

Q. No	Questions	Students Count	Credit Category				Total Credit	Credit Secured	Percentage %
			4	3	2	1			
1	Did the event meet your expectations?	27	20	07	0	0	108	101	93.5
2	Whether you could interact freely with the Resource Person?	27	21	06	0	0	108	102	94.4
3	Training duration	27	24	03	0	0	108	105	97.2
4	Facilities Provided	27	23	04	0	0	108	104	96.2
5	Did the Workshop helped you with new leanings or Knowledge?	27	25	02	0	0	108	106	95.1
6	What is your opinion about the Trainer?	27	27	00	0	0	108	108	100
7	Workshop objectives started and met.	27	24	03	0	0	108	105	97.2


D. N. Luni
PREPARED BY


S. J. S. S. S.
VERIFIED BY

ECE Department
St. Anne's College of Engineering & Technology
ANGUCHETTIPALAYAM,
Siruvathur-Post, Panruti-T.k
Cuddalore-Dist. 607 106


Dr. R. AROKIA DASS, M.E.
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Anguchettypalayam, Panruti- 607 106.

Website: www.stannescet.ac.in

Email stannescet@gmail.com



CERTIFICATE

OF PARTICIPATION

This certificate is proudly presented to

Ms.S.Vaishali doing B.E(ECE)

Final year at St.Annes College of Engineering and Technology

has participated in Five Days Value Added Course

on

**"IV A035-Internet of things (IoT) Application
Development"**

organized by

Department of Electronics and Communication Engineering

in association with

Electronics and Communication Scientia Association

St. Anne's College of Engineering and Technology

from 12.08.2024 to 16.08.2024.

Dr. Sr. S. Anita
Dean of Excellence &
HoD/ECE

Dr. R. ArokiaDass
Principal
SANCET, Panruti

ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY



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Anguchettyalayam, Panruti- 607 106.

Website: www.stannescet.ac.in

Email stannescet@gmail.com



CERTIFICATE OF PARTICIPATION

This certificate is proudly presented to

Ms.S.Sanjai doing B.E(ECE)

Final year at St.Annes College of Engineering and Technology

has participated in Five Days Value Added Course

on

**"IV A035-Internet of things (IoT) Application
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Department of Electronics and Communication Engineering

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St. Anne's College of Engineering and Technology

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Dr. Sr. S. Anita
Dean of Excellence &
HoD/ECE

Dr. R. ArokiaDass
Principal
SANCET, Panruti

ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY



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Anguchettypalayam, Panruti- 607 106.

Website: www.stannescet.ac.in

Email stannescet@gmail.com



CERTIFICATE

OF PARTICIPATION

This certificate is proudly presented to

Ms.A.Archana doing B.E(ECE)

Final year at St.Annes College of Engineering and Technology

has participated in Five Days Value Added Course

on

**"IV A035-Internet of things (IoT) Application
Development"**

organized by

Department of Electronics and Communication Engineering

in association with

Electronics and Communication Scientia Association

St. Anne's College of Engineering and Technology

from 12.08.2024 to 16.08.2024.

Dr. Sr. S. Anita
Dean of Excellence &
HoD/ECE

Dr. R. ArokiaDass
Principal
SANCET, Panruti



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CIRCULAR

(2024-2025)

CIR. No: SANCET/CSE/CIR/57

21-02-2025

The department of Computer Science and Engineering has arranged a value added course on "Android Development Using Kotlin" for third year CSE students.

Name of the Resource Person: **Mr. Abdul Mubarak**

Full Stack Developer,

Adiz Codez

Cuddalore

Venue: Lab IV

Date & Time: 24-02-2025 to 28-02-2025 & 9:30 am to 4:30 pm

[Signature] 28/2/25

EVENT CO-ORDINATOR

[Signature]
HOD

Head of the Department

Department of Computer Science and Engineering

St. Anne's College of Engineering and Technology

Anguchettypalayam,

Panruti-(Tk) Cuddalore-(Dist), Pin: 607 106

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Website: www.stannesceet.ac.in

Email: stannesceet@gmail.com



Department of Computer Science and Engineering

in association with
Computer Science Technium Association
organizes

Value Added Course
on

**ANDROID DEVELOPMENT
USING
KOTLIN**

24-28

FEBRUARY

09:30Am-04:30Pm



RESOURCE PERSON

ABDUL MUBRAK

Full Stack Developer
Adiz Codze, Cuddalore

**STAFF
COORDINATOR**

Ms. T. Gayathri AP/CSF

Ms. V. Keerthana AP/CSF

Computer lab 4

**LEARN
KOTLIN**



for App
Development



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SYLLABUS FOR VALUE ADDED COURSE ON ANDROID DEVELOPMENT USING KOTLIN

COURSE OBJECTIVE:

1. To Value added Course that includes in-depth understanding of kotlin.
2. To classify android development in order to create websites and apps.
3. To learn how to seamlessly work between the web interface and the back-end
4. To connect them for stellar results. By the end of the course, students will be able
5. To create a small-scale web application combining KOTLIN and REACT NATIVE.

COURSE CONTENT

DAY 1: BACK-END: KOTLIN – KTOR

Introduction to android development (KOTLIN - KTOR)-Setting up the development environment

-KOTLIN syntax and basics -Control flow -Function in KOTLIN -Classes and Objects -Introduction to KOTLIN advanced futures -Error Handling.

DAY 2: FRONT-END: REACT NATIVE (UI /UX)

Introduction to android development (React Native) -Setting up the development environment -React Native syntax and basics -Components in REACT -Building a Simple Android application using React Native -Connecting with mobile devices.

DAY 3: BUILDING FULL-FLEDGED ANDROID E-COMMERCE APPLICATION.

Building (UI / UX) Development: Importing ICONS and Images -Model – View – View-Model (MVVM)-Installation of dependencies-Local Storage-Routing to Pages-Back-end integration with AXIOS-Building an E-commerce applications.

DAY 4: BACK-END DEVELOPMENT WITH (FRAMEWORK KTOR):

Creating a KTOR project -Connecting with database-Implementing Firebase -Error routing ROUTES handling and parsing data to FRONT-END -Authentication checking.

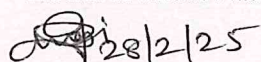
DAY 5: ASSESSMENT & DEPLOYMENT

Connecting both FRONT-END & BACK-END-Application testing -Assigning tasks to students -- Guiding students to complete the assigned task - Best practices for UI/UX and app deployment

COURSE OUTCOMES:

Upon the completion of the workshop, students will be able to:

- Gain a solid understanding of Kotlin syntax, data types, and functions.
- Apply Kotlin and React Native to build user-friendly and functional Android applications.
- Develop applications following MVVM architecture and best UI/UX practices.
- Implement local storage using Room Database and manage app states efficiently.
- Handle networking, background tasks, testing, debugging, and app deployment.
- By the end of the workshop, students will have successfully built **two Android applications** using Kotlin & React Native.

 28/2/25

EVENT COORDINATOR

 28/2/25
HOD

Head of the Department

Department of Computer Science and Engineering
St. Anne's College of Engineering and Technology

Anguchettypalayam,

Panruti-(T.k) Cuddalore-(Dist.), Pin:607 106



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VALUE ADDED COURSE ON ANDROID DEVELOPMENT USING KOTLIN

STUDENT REGISTRATION LIST

DEPT: CSE

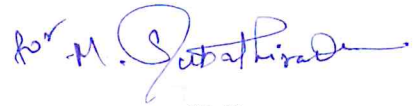
DATE:24.02.2025 TO 28.02.2025

SL.NO	REG.NO	STUDENT NAME
1	422122104002	AHAMED BIN HUSSAIN M
2	422122104004	ANISH JOYAL A
3	422122104005	ANTONYMICHALRAJ A
4	422122104006	ARIVAZHAGAN R
5	422122104007	ARUNA GIRI U
6	422122104008	ASHVINI A
7	422122104009	CHANDRU P
8	422122104010	CHARUMATHI R
9	422122104011	DHARANISWARAN T
10	422122104012	DURGA S
11	422122104013	EZHILARASAN E
12	422122104014	GOPALAKRISHNAN V
13	422122104015	GOVINDHARAJ I
14	422122104016	GOWTHAM S
15	422122104017	HARIHARAN S
16	422122104018	HEMALATHA A
17	422122104019	JAYAJOTHIYA K
18	422122104020	JAYASRI N
19	422122104021	JEEVASRI C
20	422122104022	JOSHWA NIJANTHAN P
21	422122104023	JUSWIN RAJ A
22	422122104024	KARTHIKEYAN G
23	422122104025	KAVIN PARUTHI D
24	422122104026	KRISHNAN S
25	422122104027	LAKSHMI B
26	422122104028	LOGESH S
27	422122104029	LOKESWARI R
28	422122104031	MANJUPRIYA S
29	422122104034	MOHAMED ASHARAF Z
30	422122104035	MONIKA A
31	422122104036	PATCHAIAPPAN E
32	422122104037	PAZHANI RAJA M
33	422122104038	POOVIZHI K
34	422122104039	POOVIZHIYAN K
35	422122104041	RAJA PRABU R
36	422122104043	RAVICHANDRAN S
37	422122104044	SANTHIYA S
38	422122104045	SHARMILA T
39	422122104046	SHEIK MOHAMED.S

40	422122104047	SNEKHA.S
41	422122104049	STEPHEN RAJ G
42	422122104050	SUBHIKSHA S
43	422122104051	SUDHARSAN S
44	422122104052	SUJATHA S
45	422122104053	SURIYA R
46	422122104054	THENESHVARAN S
47	422122104055	THENKUZHALI P
48	422122104056	VINAYAGAMURUGAN S
49	422122104057	VINITH CHANDRU M
50	422122104058	VINOTHA M
51	422122104301	KAMESHWARAN T
52	422122104302	LOKESHWARAN B
53	422122104303	NAVEEN KUMAR G
54	422122104305	SURESH U
55	422122104701	RAGHUL R
56	422122104503	MUGILARASI D
57	422122104701	BHARATHI S



EVENT CO-ORDINATOR



HoD
Head of the Department
 Department of Computer Science and Eng.
 Department of Computer Science and Eng.
 St. Anne's College of Engineering and Technology
 St. Anne's College of Engineering and Technology,
 Panruti (T.N) Cuddalore (Dist.), Pin: 607 106



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ANGUCHETTYPALAYAM, PANRUTI - 607 106.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VALUE ADDED COURSE ON ANDROID DEVELOPMENT USING KOTLIN

ATTENDANCE LIST

YEAR/SEMESTER: III /VI

DATE: 24.02.2025 TO 28.02.2025

S.NO.	REGISTER NO.	STUDENT NAME	24.02.2025	25.02.2025	26.02.2025	27.02.2025	28.02.2025
1	422122104002	AHAMED BIN HUSSAIN M	Ahamed	Ahamed	Ahamed	Ahamed	Ahamed
2	422122104004	ANISH JOYAL A	Anish	Anish	Anish	Anish	Anish
3	422122104005	ANTONYMICHALRAJ A	Antony	Antony	Antony	Antony	Antony
4	422122104006	ARIVAZHAGAN R	Arivazhagan	Arivazhagan	Arivazhagan	Arivazhagan	Arivazhagan
5	422122104007	ARUNA GIRI U	Aruna	Aruna	Aruna	Aruna	Aruna
6	422122104008	ASHVINI A	Ashvini	Ashvini	Ashvini	Ashvini	Ashvini
7	422122104009	CHANDRU P	Chandru	Chandru	Chandru	Chandru	Chandru
8	422122104010	CHARUMATHI R	Charumathi	Charumathi	Charumathi	Charumathi	Charumathi
9	422122104011	DHARANISWARAN T	Dharaniswaran	Dharaniswaran	Dharaniswaran	Dharaniswaran	Dharaniswaran
10	422122104012	DURGA S	Durga	Durga	Durga	Durga	Durga
11	422122104013	EZHILARASAN E	Ezhilarasan	Ezhilarasan	Ezhilarasan	Ezhilarasan	Ezhilarasan
12	422122104014	GOPALAKRISHNAN V	Gopalakrishnan	Gopalakrishnan	Gopalakrishnan	Gopalakrishnan	Gopalakrishnan
13	422122104015	GOVINDHARAJI I	Govindharaji	Govindharaji	Govindharaji	Govindharaji	Govindharaji
14	422122104016	GOWTHAM S	Gowtham	Gowtham	Gowtham	Gowtham	Gowtham
15	422122104017	HARIHARAN S	Harihara	Harihara	Harihara	Harihara	Harihara
16	422122104018	HEMALATHA A	Hemalatha	Hemalatha	Hemalatha	Hemalatha	Hemalatha
17	422122104019	JAYAJOTHIYA K	Jayajothiya	Jayajothiya	Jayajothiya	Jayajothiya	Jayajothiya
18	422122104020	JAYASRIN	Jayasrin	Jayasrin	Jayasrin	Jayasrin	Jayasrin
19	422122104021	JEEVASRI C	Jeevasri	Jeevasri	Jeevasri	Jeevasri	Jeevasri



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ANGUCHETTYPALAYAM, PANRUTI - 607 106.

20	422122104022	JOSHWA NIJANTHAN P	Jus	Jus	Jus	Jus	Jus
21	422122104023	JUSWIN RAJ A	Jus	Jus	Jus	Jus	Jus
22	422122104024	KARTHIKEYAN G	Karthi	Karthi	Karthi	Karthi	Karthi
23	422122104025	KAVIN PARUTHI D	Kavin	Kavin	Kavin	Kavin	Kavin
24	422122104026	KRISHNAN S	Krishnan	Krishnan	Krishnan	Krishnan	Krishnan
25	422122104027	LAKSHMI B	Lakshmi	Lakshmi	Lakshmi	Lakshmi	Lakshmi
26	422122104028	LOGESH S	Logesh	Logesh	Logesh	Logesh	Logesh
27	422122104029	LOKESWARI R	R.L.L	R.L.S	R.L.S	R.L.S	R.L.S
28	422122104031	MANJUPRIYA S	S. My	S. My	S. My	S. My	S. My
29	422122104034	MOHAMED ASHARAF Z	Ashraf	Ashraf	Ashraf	Ashraf	Ashraf
30	422122104035	MONIKA A	My	My	My	My	My
31	422122104036	PATCHAIAPPAN E	Patchai	Patchai	Patchai	Patchai	Patchai
32	422122104037	PAZHANI RAJA M	AB	AB	AB	AB	AB
33	422122104038	POOVIZHI K	K. Per	K. Per	K. Per	K. Per	K. Per
34	422122104039	POOVIZHIYAN K	Poovizhiyan	Poovizhiyan	Poovizhiyan	Poovizhiyan	Poovizhiyan
35	422122104041	RAJA PRABU R	Jus	Jus	Jus	Jus	Jus
36	422122104043	RAVICHANDRAN S	Ravich	Ravich	Ravich	Ravich	Ravich
37	422122104044	SANTHIYA S	S. Sant	S. Sant	S. Sant	S. Sant	S. Sant
38	422122104045	SHARMILA T	Sharm	Sharm	Sharm	Sharm	Sharm
39	422122104046	SHEIK MOHAMED.S	Sheik	Sheik	Sheik	Sheik	Sheik
40	422122104047	SNEKHA.S	S. Sne	S. Sne	S. Sne	S. Sne	S. Sne
41	422122104049	STEPHEN RAJ G	G. St	G. St	G. St	G. St	G. St
42	422122104050	SUBHIKSHA S	Subh	Subh	Subh	Subh	Subh
43	422122104051	SUDHARSAN S	Sudharsan	Sudharsan	Sudharsan	Sudharsan	Sudharsan
44	422122104052	SUJATHA S	Sujath	Sujath	Sujath	Sujath	Sujath
45	422122104053	SURIYA R	Surya	Surya	Surya	Surya	Surya



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46	422122104054	THENESHVARAN S	Theneshvaran	Theneshvaran	Theneshvaran	Theneshvaran	Theneshvaran
47	422122104055	THENKUZHALI P	P.Thy	P.Thy	P.Thy	P.Thy	P.Thy
48	422122104056	VINAYAGAMURUGAN S	Vinayagamurugan	Vinayagamurugan	Vinayagamurugan	Vinayagamurugan	Vinayagamurugan
49	422122104057	VINITH CHANDRU M	Vinith	Vinith	Vinith	Vinith	Vinith
50	422122104058	VINOTHA M	Vin	Vin	Vin	Vin	Vin
51	422122104301	KAMESHWARAN T	Kameshwaran	Kameshwaran	Kameshwaran	Kameshwaran	Kameshwaran
52	422122104302	LOKESHWARAN B	Lokeshwaran	Lokesh	Lokesh	Lokesh	Lokesh
53	422122104303	NAVEEN KUMAR G	Naveen	Naveen	Naveen	Naveen	Naveen
54	422122104305	SURESH U	S.U	S.U	S-U	S-U	S-U
55	422122104701	RAGHUL R	Raghu	Raghu	Raghu	Raghu	Raghu
56	422122104503	MUGILARASI D	Mugilarasi	Mugilarasi	Mugilarasi	Mugilarasi	Mugilarasi
57	422122104504	BHARATHI S	Bharathi	Bharathi	Bharathi	Bharathi	Bharathi

[Signature]
28/02/2015
CO-ORDINATOR

for M. *[Signature]* 28/02/2015
HEAD OF THE DEPARTMENT

Head of the Department
Department of Computer Science and Engineering,
St. Anne's College of Engineering and Technology
Anguchettypalayam,
Panruti-(T.k) Cuddalore-(Dist.), Pin:607 106

[Signature]
28/2/15
PRINCIPAL
Dr. R. AROKIADASS, M.E., Ph.D.,
Principal,
St. Anne's College of Engineering & Technology,
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist.), Pin: 607 110.



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ANGUCHETTYPALAYAM, PANRUTI - 607106

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VALUE ADDED COURSE ON ANDROID DEVELOPMENT USING KOTLIN

ASSESMENT MARKS

DEPT: CSE

DATE:24.02.2025 TO 28.02.2025

SLNO	REG.NO	STUDENT NAME	MARKS
1	422122104002	AHAMED BIN HUSSAIN M	98
2	422122104004	ANISH JOYAL A	94
3	422122104005	ANTONYMICHALRAJ A	96
4	422122104006	ARIVAZHAGAN R	95
5	422122104007	ARUNA GIRI U	94
6	422122104008	ASHVINI A	98
7	422122104009	CHANDRU P	97
8	422122104010	CHARUMATHI R	95
9	422122104011	DHARANISWARAN T	92
10	422122104012	DURGA S	94
11	422122104013	EZHILARASAN E	95
12	422122104014	GOPALAKRISHNAN V	96
13	422122104015	GOVINDHARAJ I	95
14	422122104016	GOWTHAM S	95
15	422122104017	HARIHARAN S	94
16	422122104018	HEMALATHA A	92
17	422122104019	JAYAJOTHIYA K	93
18	422122104020	JAYASRI N	95
19	422122104021	JEEVASRI C	94
20	422122104022	JOSHWA NIJANTHAN P	91
21	422122104023	JUSWIN RAJ A	92
22	422122104024	KARTHIKEYAN G	93
23	422122104025	KAVIN PARUTHI D	94
24	422122104026	KRISHNAN S	92
25	422122104027	LAKSHMI B	94
26	422122104028	LOGESH S	97
27	422122104029	LOKESWARI R	98
28	422122104031	MANJUPRIYA S	95
29	422122104034	MOHAMED ASHARAF Z	92
30	422122104035	MONIKA A	93
31	422122104036	PATCHAIAPPAN E	94
32	422122104037	PAZHANI RAJA M	AB
33	422122104038	POOVIZHI K	93
34	422122104039	POOVIZHIYAN K	95
35	422122104041	RAJA PRABU R	95
36	422122104043	RAVICHANDRAN S	94
37	422122104044	SANTHIYA S	94
38	422122104045	SHARMILA T	97
39	422122104046	SHEIK MOHAMED.S	98

40	422122104047	SNEKHA.S	95
41	422122104049	STEPHEN RAJ G	94
42	422122104050	SUBHIKSHA S	92
43	422122104051	SUDHARSAN S	96
44	422122104052	SUJATHA S	95
45	422122104053	SURIYA R	92
46	422122104054	THENESHVARAN S	93
47	422122104055	THENKUZHALI P	91
48	422122104056	VINAYAGAMURUGAN S	92
49	422122104057	VINITH CHANDRU M	93
50	422122104058	VINOTHA M	95
51	422122104301	KAMESHWARAN T	95
52	422122104302	LOKESHWARAN B	92
53	422122104303	NAVEEN KUMAR G	94
54	422122104305	SURESH U	92
55	422122104701	RAGHUL R	93
56	422122104503	MUGILARASI D	94
57	422122104701	BHARATHI S	92

Kale

EVENT CO-ORDINATOR

for M. Subudhi

HoD

Head of the Department
Department of Computer Science and Engineering
St. Anne's College of Engineering and Technology
 Anguchettypalayam,
 Panruti-(T.K) Cuddalore-(Dist.), Pin:607 106



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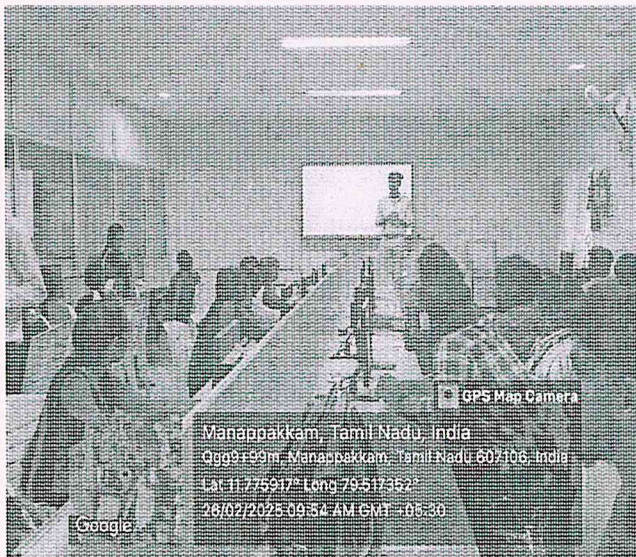
ANGUCHETTPALAYAM, PANRUTI – 607 106

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ANDROID DEVELOPMENT USING KOTLIN & REACT NATIVE – REPORT

The Department of Computer science and engineering has planned to organize a five-day value-added course on “ANDROID DEVELOPMENT USING KOTLIN & REACT NATIVE” for Third year computer science students from 24.02.2025 to 28.02.2025.


Resource person, during this value-added course delivered the content like Recruitment process, and Packages, popular choice for research due to its ease of use,




After the completion of the course, the students will be able to know about the android development and design some android based application. Able to understand the application areas of KOTLIN. Develop the Android application using different logics.

At the end of lecture, feedbacks were collected from students. Students gained knowledge about Placement drive and Self growth. The lecture was very useful to students.


EVENT COORDINATOR


HOD
Head of the Department
Department of Computer Science and Engineering
St. Anne's College of Engineering and Technology
Anguchettipalayam,
Panruti-(T.k) Cuddalore-(Dist.), Pin: 607 106


PRINCIPAL
Dr. R. AROKIADASS, M.E., Ph.D.,
Principal,
St. Anne's College of Engineering & Technology,
ANGUCHETTPALAYAM,
Struvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 110.



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

FEEDBACK ON VALUE ADDED COURSE

SEM/YEAR:VI/III

PERIOD: FEB 2025 - MAY 2025

Q. No	Q. TYPE	Questions	Student Count	No. of mark secured					Total Credit	Credit Secured	Percentage
				5	4	3	2	1			
1	V	Course plan	56	28	20	4	3	1	280	239	85%
2	V	Training duration	56	29	11	9	5	2	280	228	81%
3	V	Interactive approach	56	30	15	5	4	2	280	235	84%
4	V	Mode of presentation	56	30	17	4	3	2	280	238	85%
5	V	The course material handed out was adequate	56	13	28	8	5	2	280	213	76%
6	V	Usage of teaching aids and ICT in the class by faculty to facilitate teaching	56	20	26	5	3	2	280	227	81%
7	V	The course exposed you to new knowledge and practices	56	23	27	1	3	2	280	234	84%
8	V	Were objectives of the course clear to you?	56	24	25	3	3	1	280	236	84%
9	V	The course contents met with your expectations	56	31	16	5	3	1	280	241	86%
10	V	How would you rate the overall course content?	56	30	21	2	2	1	280	245	88%

PREPARED BY

APPROVED BY
A. M. S. Subathra
Department of Computer Science and Engineering
ANGUCHETTYPALAYAM,
Panruti-(T.k) Cuddalore-(Dist), Pin.607 106

Dr. R. AROKIADASS, M.E., Ph.D.,
Principal,
APPROVED BY
St. Anne's College of Engineering & Technology
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k).



ST. ANNE'S

COLLEGE OF ENGINEERING AND TECHNOLOGY

(A unit of the Sisters of St. Anna, Tiruchirappalli)

Anguchettypalayam, Panruti

CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. MOHAMED ASHARAF . Z of IV year,

Department of Computer Science and Engineering has successfully completed 5 days Value Added Course on "Android Development Using Kotlin" at St. Anne's College of Engineering and Technology conducted by **Adiz Codez** from 24-02-2025 to 28-02-2025.

Principal

Dr. R. Arokladass, M.E., Ph.D. Sr.Punitha Jlt,M.Tech., (Ph.D) Mr.Abdul Mubarak B.E, M.B.A.

HOD

Adiz codez



ST. ANNE'S

COLLEGE OF ENGINEERING AND TECHNOLOGY

(A unit of the Sisters of St. Anna, Tiruchirappalli)

Anguchettypalayam, Panruti

CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. LOGESH . S of IV year,

Department of **Computer Science and Engineering** has successfully completed 5 days Value Added Course on "**Android Development Using Kotlin**" at St. Anne's College of Engineering and Technology conducted by **Adiz Codez** from **24-02-2025** to **28-02-2025**.

Principal

Dr. R. Arokiadass, M.E., Ph.D

HOD

Sr.Punitha Jlt,M.Tech., (Ph.D)

Mr.Abdul Mubarak E.E, M.B.A.
Adiz codez



ST. ANNE'S

COLLEGE OF ENGINEERING AND TECHNOLOGY

(A unit of the Sisters of St. Anna, Tiruchirappalli)

Anguchettypalayam, Panruti

CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. MONIKA . A of IV year,

Department of **Computer Science and Engineering** has successfully completed 5 days Value Added Course on "**Android Development Using Kotlin**" at St. Anne's College of Engineering and Technology conducted by **Adiz Codez** from **24-02-2025** to **28-02-2025**.

Principal

Dr. R. Arokladass, M.E., Ph.D

HOD

Sr.Punitha Jlt,M.Tech., (Ph.D) Mr.Abdul Mubarak B.E, M.B.A.

Adiz codez



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CIRCULAR

(2024-2025)

CIR. No: SANCET/CSE/CIR/56

17-02-2025

The department of Computer Science and Engineering has arranged a value added course on “PHP & MYSQL” for second year CSE students.

Name of the Resource Person: **Mrs. M.S. Sujitha**

Nextgen Solutions

Cuddalore

Venue: Lab V

Date & Time: 24-02-2025 to 28-02-2025 & 9:30 am to 4:30 pm

EVENT CO-ORDINATOR

HOD

Head of the Department
Department of Computer Science and Engineering,
St. Anne's College of Engineering and Technology
Anguchettypalayam,
Panruti-(Tk) Cuddalore-(Dist.), Pin:607 106

PRINCIPAL

A. R. AROKIADASS, M.E., Ph.D.
Principal,

St. Anne's College of Engineering & Technology

ANGUCHETTYPALAYAM,

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ANGUCHETTYPALAYAM, PANRUTI – 607 106.

Website: www.stannescet.ac.in

Email: stannescet@gmail.com



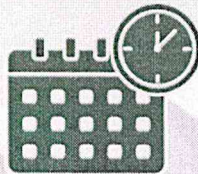
Department of Computer Science and Engineering

in association with
Computer Science Techxium Association
organizes

Value Added Course
on

**PHP
&
MY SQL**

24-28
FEBRUARY
09:30Am-04:30Pm



Resource Person

MS. SUJITHA

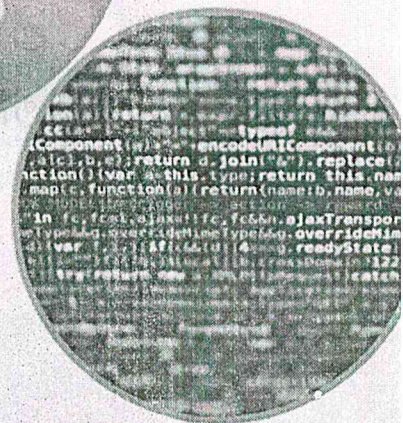
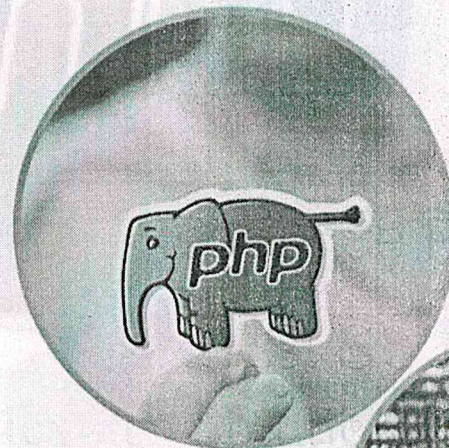
Nextgen Solution, Cuddalore

Staff coordinator

Ms. Guani A Sabi

Mr. R. Manickavasagan

Computer lab 5





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SYLLABUS FOR VALUE ADDED COURSE ON PHP & MYSQL

COURSE OBJECTIVE:

1. Write algorithms, flowcharts and programs.
2. Implement different programming constructs and decomposition of problems into functions.
3. Use and implement data structures like arrays and structures to obtain solutions.
4. Define and use of pointers with simple applications.

COURSE CONTENT

DAY 1: PHP INTRODUCTION

Introduction-PHP,Installation,Syntax,Variables,ECHO/Print,DataType,Strings,Constants,Operators,Include.

DAY 2: PHP STATEMENTS AND FORMS

Decision making, Looping Statement, Arrays, Functions, Forms, GET/POST, Forms handling, Form Validation, Form Required.

DAY 3: PHP ADVANCED

PHP Predefined variables, PHP String Functions, PHP Date and Time

DAY 4: PHP WEB BASED ADVANCED

PHP Cookies, PHP Session, PHP sending email, PHP File uploading

DAY 5: MYSQL

Database, Connect, Create Database, Create Table, Insert Data, Select Data, Delete Data,

COURSE OUTCOMES:

Upon the completion of the workshop, students will be able to:

1. The students will be outfitted with hands-on knowledge using PHP and MYSQL
2. The students will know about how the data are transformation
3. The students will be created the web application

EVENT COORDINATOR

HOD

Head of the Department

Department of Computer Science and Engineering,
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ANGUCHETTYPALAYAM, PANRUTI – 607106

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VALUE ADDED COURSE ON PHP & MYSQL

STUDENT REGISTRATION LIST

DEPT: CSE

DATE:24.02.2025 TO 28.02.2025

SI.NO	REG.NO	STUDENT NAME
1	422123104001	Aadhithya E
2	422123104002	Abdul Wahab A
3	422123104003	Ajay D
4	422123104005	Andro Jackson A
5	422123104006	Angel S
6	422123104007	Anu Priya R
7	422123104008	Anushka R
8	422123104009	Arish G
9	422123104010	Arish R
10	422123104011	Arunkumar I
11	422123104012	Arunthathiray M
12	422123104013	Asin A
13	422123104014	Avina Sree A
14	422123104015	Bharath S
15	422123104016	Bhavani M
16	422123104018	Deepak Rosario F
17	422123104019	Devika G
18	422123104020	Dharani J
19	422123104021	Edhayachandiran K
20	422123104022	Eswaramoorthi P
21	422123104023	Giridharan R
22	422123104024	Gopika G
23	422123104025	Jana B
24	422123104026	Janani M
25	422123104027	Jeevanantham P
26	422123104028	Jenisha M
27	422123104029	Keerthi Manikandan N
28	422123104030	Kiruthika A
29	422123104031	Krishnaraj G
30	422123104032	Logeshwari S
31	422123104033	Loyala Misra Rayen D
32	422123104034	Madhivadhani S
33	422123104035	Malodina D

34	422123104036	Mugesh M
35	422123104037	Mukesh M
36	422123104038	Nivedha S
37	422123104039	Nivetha M
38	422123104040	Pavithra M
39	422123104041	Pragatheeswaran K
40	422123104042	Prathap M
41	422123104044	Prathishkumar D
42	422123104045	Praveen Kumar G
43	422123104046	Pravinraj P
44	422123104047	Prithika R
45	422123104048	Ram Prasath M
46	422123104049	Sathish E
47	422123104050	Sevvanthi S
48	422123104051	Sharmila Devi K
49	422123104052	Shrawanika R
50	422123104053	Subash S
51	422123104054	Suvetha A
52	422123104055	Thamizhmathi S
53	422123104056	Vaidegi B

K. Kalan

EVENT CO-ORDINATOR

for M. Subathani

HoD

Head of the Department
Department of Computer Science and Engineering
Sri Lanka College of Engineering and Technology
Anguchettypalayam,
Ramanathapuram (Dist.), Pin: 607 106



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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ANGUCHETTYPALAYAM, PANRUTI - 607 106.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VALUE ADDED COURSE ON "PHP AND MYSQL"

ATTENDANCE LIST

YEAR/SEMESTER: II /IV

DATE: 24.02.2025 TO 28.02.2025

SL.NO	REG. NUMBER	STUDENTS NAME	24.02.2025	25.02.2025	26.02.2025	27.02.2025	28.02.2025
1.	422123104001	AADHITHYA E	Aadhithya	Aadhithya	Aadhithya	Aadhithya	Aadhithya
2.	422123104002	ABDUL WAHAB A	Abdul	Abdul	Abdul	Abdul	Abdul
3.	422123104003	AJAY D	Ajay	Ajay	Ajay	Ajay	Ajay
4.	422123104005	ANDRO JACKSON A	Andro	Andro	Andro	Andro	Andro
5.	422123104006	ANGEL S	Angel	Angel	Angel	Angel	Angel
6.	422123104007	ANU PRIYA R	Anupriya	Anupriya	Anupriya	Anupriya	Anupriya
7.	422123104008	ANUSHKA R	Anushka	Anushka	Anushka	Anushka	Anushka
8.	422123104009	ARISH G	Arish	Arish	Arish	Arish	Arish
9.	422123104010	ARISH R	Arish	Arish	Arish	Arish	Arish
10.	422123104011	ARUNKUMAR I	Arunkumar	Arunkumar	Arunkumar	Arunkumar	Arunkumar
11.	422123104012	ARUNTHATHIRAY M	Arun	Arun	Arun	Arun	Arun
12.	422123104013	ASIN A	Asin	Asin	Asin	Asin	Asin
13.	422123104014	AVINA SREE A	Avina Sree	Avina Sree	Avina Sree	Avina Sree	Avina Sree
14.	422123104015	BHARATH S	Bharath	Bharath	Bharath	Bharath	Bharath
15.	422123104016	BHAVANI M	Bhavani	Bhavani	Bhavani	Bhavani	Bhavani
16.	422123104018	DEEPAK ROSARIO F	Rosario	Rosario	Rosario	Rosario	Rosario
17.	422123104019	DEVIKA G	Devika	Devika	Devika	Devika	Devika
18.	422123104020	DHARANI J	Dharani	Dharani	Dharani	Dharani	Dharani
19.	422123104021	EDHAYACHANDIRAN P	Edhayachandiran	Edhayachandiran	Edhayachandiran	Edhayachandiran	Edhayachandiran
20.	422123104022	ESWARAMOORTHY P	Swathi	Swathi	Swathi	Swathi	Swathi

21.	422123104023	GIRIDHARAN R	Giridhar	Giridhar	Giridhar	Giridhar	Giridhar
22.	422123104024	GOPIKA G	AB Gopi	AB Gopi	AB Gopi	AB Gopi	AB Gopi
23.	422123104025	JANA B	Jana	Jana	Jana	Jana	Jana
24.	422123104026	JANANI M	Janani	Janani	Janani	Janani	Janani
25.	422123104028	JENISHA M	Jeni	Jeni	Jeni	Jeni	Jeni
26.	422123104029	KEERTHI MANIKANDAN N	AB Keer	AB Keer	AB Keer	AB Keer	AB Keer
27.	422123104030	KIRUTHIKA A	Kiruthi	Kiruthi	Kiruthi	Kiruthi	Kiruthi
28.	422123104031	KRISHNARAJ G	Krishna	Krishna	Krishna	Krishna	Krishna
29.	422123104032	LOGESHWARI S	Logesh	Logesh	Logesh	Logesh	Logesh
30.	422123104033	LOYALA MISRA RAYEN D	Loyal	Loyal	Loyal	Loyal	Loyal
31.	422123104034	MADHIVADHANI S	Madhi	Madhi	Madhi	Madhi	Madhi
32.	422123104035	MALODINA D	Malodi	Malodi	Malodi	Malodi	Malodi
33.	422123104036	MUGESH M	Mugesh	Mugesh	Mugesh	Mugesh	Mugesh
34.	422123104037	MUKESH M	Mukesh	Mukesh	Mukesh	Mukesh	Mukesh
35.	422123104038	NIVEDHA S	Nivedh	Nivedh	Nivedh	Nivedh	Nivedh
36.	422123104039	NIVETHA M	AB Nive	AB Nive	AB Nive	AB Nive	AB Nive
37.	422123104040	PAVITHRA M	Pavith	Pavith	Pavith	Pavith	Pavith
38.	422123104041	PRAGATHEESWARAN K	Pragath	Pragath	Pragath	Pragath	Pragath
39.	422123104042	PRATHAP M	Prathap	Prathap	Prathap	Prathap	Prathap
40.	422123104044	PRATHISHKUMAR D	Prathi	Prathi	Prathi	Prathi	Prathi
41.	422123104045	PRAVEEN KUMAR G	Praveen	Praveen	Praveen	Praveen	Praveen
42.	422123104046	PRAVINRAJ P	Pravin	Pravin	Pravin	Pravin	Pravin
43.	422123104047	PRITHIKA R	Prithi	Prithi	Prithi	Prithi	Prithi
44.	422123104048	RAM PRASATH M	Rampr	Rampr	Rampr	Rampr	Rampr
45.	422123104049	SATHISH E	Sathish	Sathish	Sathish	Sathish	Sathish
46.	422123104050	SEVVANTHI S	Sevanthi	Sevanthi	Sevanthi	Sevanthi	Sevanthi
47.	422123104051	SHARMILA DEVI K	Sharmi	Sharmi	Sharmi	Sharmi	Sharmi
48.	422123104052	SHRAWANIKA R	Shrawa	Shrawa	Shrawa	Shrawa	Shrawa
49.	422123104053	SUBASH S	Subash	Subash	Subash	Subash	Subash

50	422123104054	SUVETHA A	<i>Suvetha</i>	<i>Suvetha</i>	<i>Suvetha</i>	<i>Suvetha</i>	<i>Suvetha</i>
51	422123104055	THAMIZHMATHI S	<i>Thamish</i>	<i>Thamish</i>	<i>Thamish</i>	<i>Thamish</i>	<i>Thamish</i>
52	422123104056	VAIDEGI	<i>VA</i>	<i>VA</i>	<i>VA</i>	<i>VA</i>	<i>VA</i>
53	422123104057	VENKATESAPERUMAL V	<i>Vonkatesa</i>	<i>Vonkatesa</i>	<i>Vonkatesa</i>	<i>Vonkatesa</i>	<i>Vonkatesa</i>

Aravind
CO-ORDINATOR

S. J. Pillai
02/03/2025
HEAD OF THE DEPARTMENT
Head of the Department
Department of Computer Science and Engineering,
St. Anne's College of Engineering and Technology
Anguchettypalayam,
Ponneri-(T.k) Cuddalore-(Dist.), Pin: 607 106

R. Aradi
2/3/25
PRINCIPAL
DR. R. AROKIADASS, M.E., Ph.D.,
Principal,
St. Anne's College of Engineering & Technology,
ANGUCHETTYPALAYAM,
Sivuvathur-(Post), Panneri-(T.k),
Cuddalore-(Dist), Pin: 607 110.



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VALUE ADDED COURSE ON PHP & MYSQL

ASSESSMENT MARKS

DEPT: CSE

DATE:24.02.2025 TO 28.02.2025

SL.NO	REG.NO	STUDENT NAME	MARKS
1	422123104001	Aadhithya E	90
2	422123104002	Abdul Wahab A	85
3	422123104003	Ajay D	80
4	422123104005	Andro Jackson A	84
5	422123104006	Angel S	85
6	422123104007	Anu Priya R	95
7	422123104008	Anushka R	90
8	422123104009	Arish G	85
9	422123104010	Arish R	80
10	422123104011	Arunkumar I	86
11	422123104012	Arunthathiray M	95
12	422123104013	Asin A	85
13	422123104014	Avina Sree A	84
14	422123104015	Bharath S	85
15	422123104016	Bhavani M	90
16	422123104018	Deepak Rosario F	95
17	422123104019	Devika G	90
18	422123104020	Dharani J	85
19	422123104021	Edhayachandiran K	75
20	422123104022	Eswaramoorthi P	80
21	422123104023	Giridharan R	85
22	422123104024	Gopika G	AB
23	422123104025	Jana B	80
24	422123104026	Janani M	85
25	422123104027	Jeevanantham P	90
26	422123104028	Jenisha M	85
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29	422123104031	Krishnaraj G	95
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33	422123104035	Malodina D	85
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35	422123104037	Mukesh M	78
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47	422123104050	Sevvanthi S	85
48	422123104051	Sharmila Devi K	80
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50	422123104053	Subash S	85
51	422123104054	Suvetha A	80
52	422123104055	Thamizhmathi S	95
53	422123104056	Vaidegi B	85



EVENT CO-ORDINATOR



HoD

Head of the Department
Department of Computer Science and Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam,
Panruti-(T.k) Cuddalore-(Dist.), Pin:607 106



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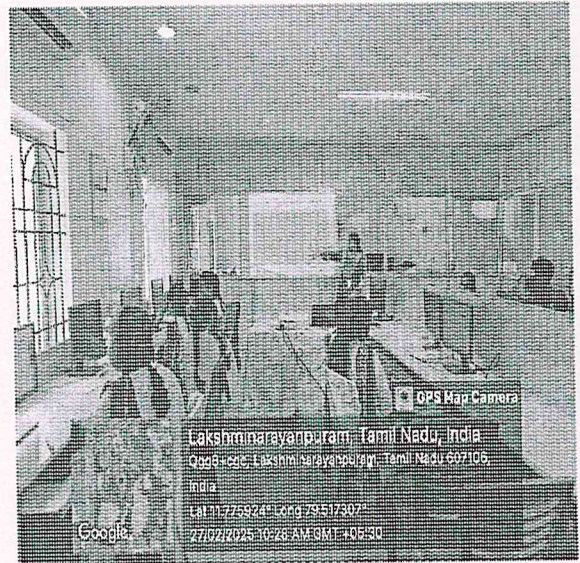
ANGUCHETTYPALAYAM, PANRUTI – 607 106

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PHP & MYSQL – REPORT

The Department of Computer science and engineering has planned to organize a five-day value-added course on “PHP & MYSQL” for Second year computer science students from 24.02.2025 to 28.02.2025.

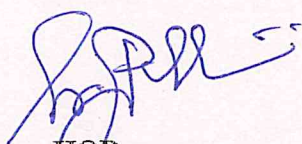
Resource person, during this value-added course delivered the content like Recruitment process, and Packages, popular choice for research due to its ease of use,

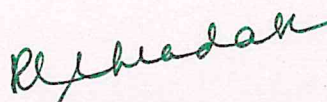


After the completion of the course, the students will be able to know about the coding using PHP & MYSQL. Able to understand the programming. Develop the PHP & MYSQL Programming, and develop a new web-page.

At the end of lecture, feedbacks were collected from students. Students gained knowledge about Placement drive and Self growth. The lecture was very useful to students.


EVENT COORDINATOR


HOD
Head of the Department
Department of Computer Science and Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam,
Panruti-(Tk) Cuddalore-(Dist.), Pin: 607 106


PRINCIPAL
Dr. R. AROKIADASS, M.E., Ph.D.,
Principal,
St. Anne's College of Engineering & Technology
ANGUCHETTYPALAYAM,
Sivvathur-(Post), Panruti-(T.K),
Cuddalore-(Dist), Pin: 607 106.



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ANGUCHETTYPALAYAM, PANRUTI - 607 106.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

FEEDBACK ON VALUE ADDED COURSE

SEM/YEAR:IV/II

PERIOD: FEB 2025 - MAY 2025

Q. No	Q.TYPE	Questions	Student Count	No.of mark secured					Total Credit	Credit Secured	Percentage
				5	4	3	2	1			
1	V	Course plan	50	44	3	3	0	0	250	241	96%
2	V	Training duration	50	38	8	4	0	0	250	234	94%
3	V	Interactive approach	50	40	5	5	0	0	250	235	94%
4	V	Mode of presentation	50	14	31	5	0	0	250	209	84%
5	V	The course material handed out was adequate	50	43	3	4	0	0	250	239	96%
6	V	Usage of teaching aids and ICT in the class by faculty to facilitate teaching	50	13	32	5	0	0	250	208	83%
7	V	The course exposed you to new knowledge and practices	50	44	1	4	1	0	250	238	95%
8	V	Were objectives of the course clear to you?	50	14	32	4	0	0	250	210	84%
9	V	The course contents met with your expectations	50	44	1	5	0	0	250	239	96%
10	V	How would you rate the overall course content?	50	12	34	4	0	0	250	208	83%

PREPARED BY

Head of the Department
Department of Computer Science and Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam.
Panruti (TN) Cuddalore (Dist), Pin: 607 106

Dr. R. AROKIADESS, M.E., Ph.D.,
Principal,
St. Anne's College of Engineering & Technology,
ANGUCHETTYPALAYAM

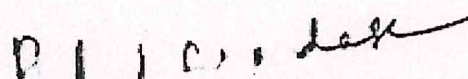


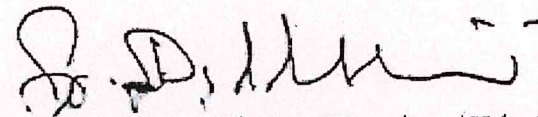
ST. ANNE'S

COLLEGE OF ENGINEERING AND TECHNOLOGY
(A unit of the Sisters of St. Anne, Tiruchirappalli)
Anguchettypalayam, Panruti

CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. DHARANI . J of IV year, Department of **Computer Science and Engineering** has successfully completed 5 days Value Added Course on "**PHP & MYSQL**" at St. Anne's College of Engineering and Technology conducted by **Nextgen Solutions** from **24-02-2025** to **28-02-2025**.


Dr. R. Arokiadass, M.E., Ph.D
Principal


Sr. Punitha Jilt, M.Tech., (Ph.D)
HOD

Mr. M.S. Sujitha M.E



ST. ANNE'S

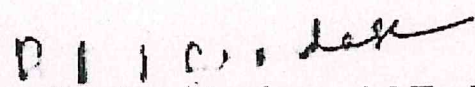
COLLEGE OF ENGINEERING AND TECHNOLOGY

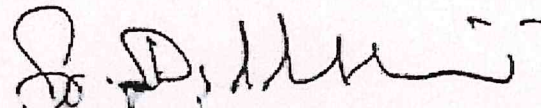
(A unit of the Sisters of St. Anne, Tiruchirappalli)

Anguchettypalayam, Panruti

CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. THAMIZHMATHI . S of IV year, Department of **Computer Science and Engineering** has successfully completed 5 days Value Added Course on "**PHP & MYSQL**" at St. Anne's College of Engineering and Technology conducted by **Nextgen Solutions** from **24-02-2025** to **28-02-2025**.


Dr. R. Arokiadass, M.E., Ph.D
Principal


Sr. Punitha Jilt, M.Tech., (Ph.D)
HOD

Mr. M.S. Sujitha M.E

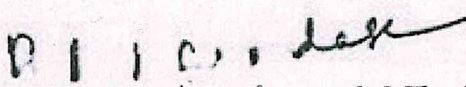


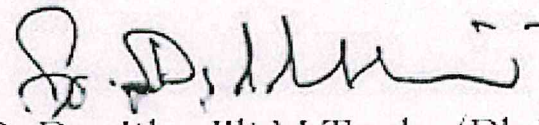
ST. ANNE'S

COLLEGE OF ENGINEERING AND TECHNOLOGY
(A unit of the Sisters of St. Anne, Tiruchirappalli)
Anguchettyalayam, Panruti

CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. DEEPAK ROSARIO . P of IV year, Department of **Computer Science and Engineering** has successfully completed 5 days Value Added Course on "**PHP & MYSQL**" at St. Anne's College of Engineering and Technology conducted by **Nextgen Solutions** from **24-02-2025** to **28-02-2025**.


Dr. R. Arokiadass, M.E., Ph.D
Principal


Sr. Punitha Jilt, M.Tech., (Ph.D)
HOD

Mr. M.S. Sujitha M.E



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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ANGUCHETTYPALAYAM, PANRUTI - 607 106.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**CIRCULAR
(2024-2025)**

CIR. No. : SACET/EEE/CIR/016

22.02.2025

It is informed that Department of Electrical and Electronics Engineering has planned to organize five days Value-Added Course cum Internship Program on "IOT Basics with Real Time Applications" in our college premises to enhance the Practical Knowledge skills of the students. Hence, all students of the III and IV year of the Department are cordially invited.

Name of the Resource Person : **Mr. N. Kumar, Entrepreneur, Tirchy**

Date : 25.02.2025 - 01.03.2025

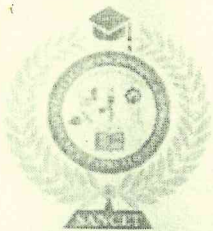
Venue : Power System Simulation Laboratory

V. S. S. S.
22/2/25
HoD

Head of the Department
Department of Electrical and Electronics Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti (T.k), Cuddalore (Dist), Pin: 607 106

R. Aradiass
Principal 24/2/25

Dr. R. AROKIADASS, M.E., Ph.D.,
Principal,
St. Anne's College of Engineering & Technology,
ANGUCHETTYPALAYAM,
Siruvathur (Post), Panruti (T.k),
Cuddalore (Dist), Pin: 607 110.



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY
ANGUCHETTYPALAYAM, PANRUTI, CUDDALORE- 607106.
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING

VALUE ADDED COURSE

CUM

INTERNSHIP PROGRAM

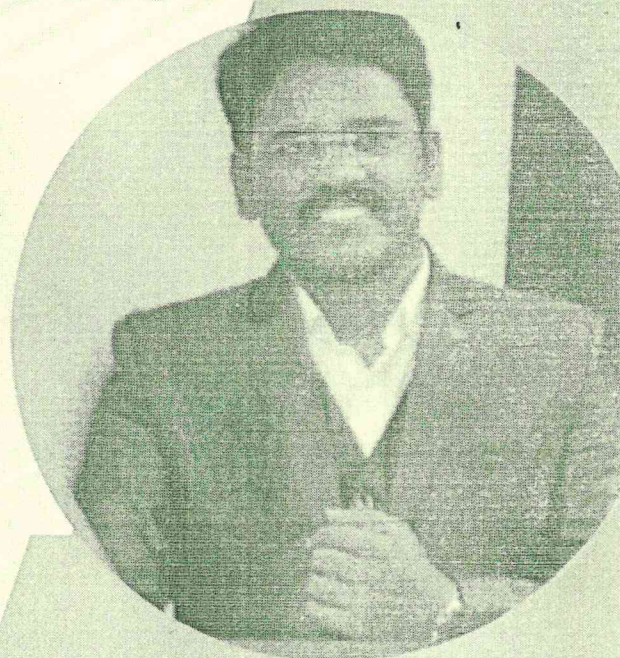
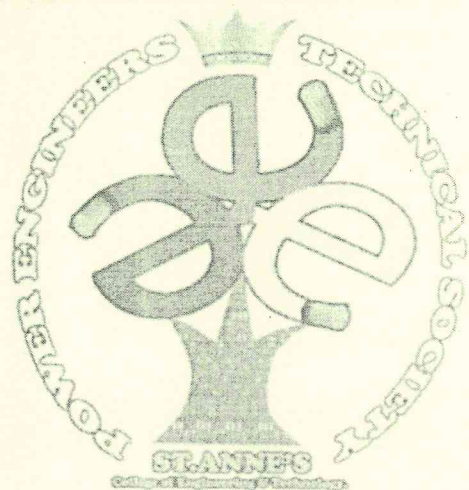
ON

**IOT BASICS WITH REAL TIME
APPLICATIONS**

MR. N. KUMAR

ENTREPRENEUR, TIRCHY

IN
ASSOCIATION
WITH



DATE
25.02.2025
TO
01.03.2025

INAUGURATION @ 9.30 AM

VENUE : POWER SYSTEM SIMULATION LABORATORY

IoT Syllabus

Day 1: Introduction to IoT and Communication Protocols

1. Understanding IoT:

- What is IoT?
- Real-world Applications and Use Cases:
 - Home Automation
 - Smart Agriculture
 - Healthcare Monitoring
 - Industrial Automation

2. IoT Architecture and Layers:

- Perception Layer:
 - Sensors and Actuators – Functionality and Examples
- Network Layer:
 - Communication Technologies: Wi-Fi, LoRa, Zigbee, GSM, etc.
- Application Layer:
 - Cloud Integration and Mobile Applications

3. Communication Protocols:

- Overview of Key Protocols:
 - HTTP
 - MQTT (Message Queuing Telemetry Transport)
 - CoAP (Constrained Application Protocol)
 - WebSockets

4. Hands-on Session:

- Setting up Arduino IDE for NodeMCU
- Basic Programming in Arduino IDE

Day 2: Getting Started with NodeMCU and Basic Components

1. Introduction to NodeMCU (ESP8266/ESP32):

- Key Features and Capabilities
- GPIO Pins Configuration and Power Requirements
- Installing Required Drivers and Libraries in Arduino IDE

2. Hands-on Experiments:

- Digital Output:
 - LED Blinking Program
- Digital Input:
 - Push Button Input Detection
- Sensor Integration:
 - Connecting and Reading Basic Sensor Data

Day 3: Working with Sensors and Actuators

1. Interfacing Sensors with NodeMCU:

- Remote Control using IoT:
 - Controlling LED using Blynk IoT App
 - Controlling Relay Module Remotely
- Soil Moisture Sensor:
 - Measuring Soil Moisture Level for Smart Irrigation

2. Actuator Control:

- Relay Module Integration:
 - Turning Devices ON/OFF using NodeMCU and Relay
- Water Pump Control:
 - Automating Water Pump using Soil Moisture Sensor



Day 4: IoT Cloud Integration and Advanced Sensors

1. Cloud Integration using Blynk:

- Setting up Blynk IoT Platform
- Real-Time Monitoring and Control using Mobile App

2. Advanced Sensors Interfacing:

- **DHT11 Sensor:**
 - Temperature and Humidity Monitoring
- **LDR Sensor:**
 - Light Intensity Detection
- **IR Sensor:**
 - Motion Detection and Proximity Sensing
- **Gas Sensor (MQ Series):**
 - Air Quality Monitoring
- **Relay Control with Sensors:**
 - Integrating Sensors with Relay for Automation

Day 5: IoT Mini Project – Smart Irrigation System & Home Automation

1. Project 1: Smart Irrigation System

- **Overview and Objectives:**
 - Using Soil Moisture Sensor, DHT11, Relay, Water Pump, and Blynk
 - Automating irrigation for smart agriculture
- **Implementation Steps:**
 - Circuit Design and Wiring
 - Programming Logic and Control Flow
 - Testing, Debugging, and Optimization
- **Final Demonstration:**

- Real-Time Monitoring and Control via Blynk App

2. Project 2: Home Automation & Smart Control

- **Overview and Objectives:**
 - Home Automation using Relays and Sensors
 - Automatic Street Light Control and Monitoring
- **Web-Based IoT Platform Development:**
 - Creating a Basic Web-Based IoT Dashboard
 - **Implementation Steps:**
 - Designing and Developing Web Interface
 - Testing and Debugging
 - Final Presentation and Demonstration

3. Project 3: Industrial Automation

- **Overview and Objectives:**
 - Industrial Automation using Gas Sensor and DHT11
 - Automation and Notification System:
- **Web-Based IoT Platform Development:**
 - Developing a Real-Time Monitoring Dashboard:
 - **Implementation Steps:**
 - Interface Design and Integration
 - Testing and Debugging
 - Final Presentation and Demonstration:



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY
ANGUCHETTYPALAYAM, PANRUTI – 607 106.
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
VALUE ADDED COURSE – IOT BASICS AND APPLICATIONS

Batch:2022-2026

REGISTERED STUDENTS

Sem/Year:V/III

S.No.	Register no.	Name of the student
1	422122105001	Abinaya P
2	422122105002	Abinaya S
3	422122105003	Abishek. R
4	422122105005	Bairavan N
5	422122105007	Harikrishnan K
6	422122105008	Hariprasanth. U
7	422122105009	Harish. S
8	422122105010	Jenifer Dency I
9	422122105011	Manikandan. R
10	422122105014	Prathish K
11	422122105015	Praveen T
12	422122105016	Praveena. P
13	422122105017	Praveen Raj T
14	422122105019	Sanjay N
15	422122105020	Saravanan. S
16	422122105021	Saravana Velu. B
17	422122105022	Sedhuraman. M
18	422122105023	Shiban. K
19	422122105024	Vasanthakrishnan. V
20	422122105025	Vignesh. E
21	422122105501	Veeraragavan. D
22	422122105301	Antony Johnson. M
23	422122105302	Gokula Krishnan. R
24	422122105303	Pugazhenth. M
25	422122105304	Sudharshan. S

Batch: 2021-2025

Sem /Year: IV/VII

S.No.	Register no.	Name of the student
1	422121105001	Abitha A
2	422121105002	Adhirai V
3	422121105004	Akash A
4	422121105006	Asraf Ali A
5	422121105007	Balamurugan S
6	422121105008	Chithiraiselvan S
7	422121105009	Denis S
8	422121105010	Dhanush D



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
VALUE ADDED COURSE – IOT BASICS AND APPLICATIONS

9	422121105011	Dishan M
10	422121105012	Elavarasan E
11	422121105013	Elumalai G
12	422121105014	Ganesh M
13	422121105015	Gnanaraj S
14	422121105017	Hariharan V
15	422121105018	Jaganathan S
16	422121105019	Jana.M
17	422121105020	Jegatheswari A
18	422121105021	Micheal Aasic B
19	422121105022	Moħanraj K
20	422121105025	Praveen K
21	422121105026	Praveen N
22	422121105027	Prem S
23	422121105028	Premkumar S
24	422121105029	Raguraman S
25	422121105030	Santhosh P
26	422121105031	Saranraj S
27	422121105032	Seethapathi M
28	422121105033	Sivabalan B L
29	422121105034	Sivaraj K
30	422121105035	Sowmiya S
31	422121105036	Sridhar B
32	422121105037	Subash B
33	422121105038	Sumanraj T
34	422121105039	Sureshkumar S
35	422121105040	Udhayalakshmi T
36	422121105042	Vishnuchandiran T
37	422121105301	Agash A
38	422121105302	Anbu
39	422121105304	Dhivakar M
40	422121105305	Manivasagan M
41	422121105306	Megharjun S



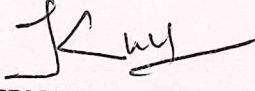
ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY
ANGUCHETTYPALAYAM, PANRUTI - 607 106.

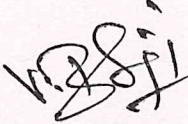
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

VALUE ADDED COURSE - IOT BASICS AND APPLICATIONS

42	422121105307	Mohamed Irfan M I
43	422121105308	Nijanth Kumar D
44	422121105309	Praveen Kumar R
45	422121105310	Umar Bin Hussai M
46	422121105311	Vinoth M


EVENT COORDINATOR
05/3/25


EXTERNAL COORDINATOR


HoD

Head of the Department
Department of Electrical and Electronics Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore (Dist.), Pin: 607 106



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY
ANGUCHETTYPALAYAM, PANRUTI - 607 106.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Value added course - IoT Basics and applications



Batch:2022-2026

sem/year:V/III

S.No.	Register no.	Name of the student	25.02.2025	26.02.25	27.02.25	28.02.25	01.03.25
1	422122105001	Abinaya P	P. Aliza	P. Aliza	P. Aliza	P. Aliza	P. Aliza
2	422122105002	Abinaya S	S. Arina	S. Arina	S. Arina	S. Arina	S. Arina
3	422122105003	Abishek. R	R. Abishek	R. Abishek	R. Abishek	R. Abishek	R. Abishek
4	422122105005	Bairavan N	N. Bairav	N. Bairav	N. Bairav	N. Bairav	N. Bairav
5	422122105006	Balaji B	DISCONTINUED				
6	422122105007	Harikrishnan K	K. Harikrishnan	K. Harikrishnan	K. Harikrishnan	K. Harikrishnan	K. Harikrishnan
7	422122105008	Hariprasanth. U	U. Hariprasanth	U. Hariprasanth	U. Hariprasanth	U. Hariprasanth	U. Hariprasanth
8	422122105009	Harish. S	S. Harish	S. Harish	S. Harish	S. Harish	S. Harish
9	422122105010	Jenifer Dency I	I. Jenifer	I. Jenifer	I. Jenifer	I. Jenifer	I. Jenifer
10	422122105011	Manikandan. R-	R. Manikandan	R. Manikandan	R. Manikandan	R. Manikandan	R. Manikandan
11	422122105014	Prathish K	K. Prathish	K. Prathish	K. Prathish	K. Prathish	K. Prathish
12	422122105015	Praveen T	T. Praveen	T. Praveen	T. Praveen	T. Praveen	T. Praveen
13	422122105016	Praveena. P	P. Praveena	P. Praveena	P. Praveena	P. Praveena	P. Praveena
14	422122105017	Praveen Raj T	T. Praveen Raj	T. Praveen Raj	T. Praveen Raj	T. Praveen Raj	T. Praveen Raj
15	422122105019	Sanjay N	N. Sanjay	N. Sanjay	N. Sanjay	N. Sanjay	N. Sanjay
16	422122105020	Saravanan. S	S. Saravanan	S. Saravanan	S. Saravanan	S. Saravanan	S. Saravanan
17	422122105021	Saravana Velu. B	B. Saravana Velu	B. Saravana Velu	B. Saravana Velu	B. Saravana Velu	B. Saravana Velu
18	422122105022	Sedhuraman. M	M. Sedhuraman	M. Sedhuraman	M. Sedhuraman	M. Sedhuraman	M. Sedhuraman
19	422122105023	Shiban. K	K. Shiban	K. Shiban	K. Shiban	K. Shiban	K. Shiban
20	422122105024	Vasanthakrishnan. V	V. Vasanthakrishnan	V. Vasanthakrishnan	V. Vasanthakrishnan	V. Vasanthakrishnan	V. Vasanthakrishnan
21	422122105025	Vignesh. E	E. Vignesh	E. Vignesh	E. Vignesh	E. Vignesh	E. Vignesh
22	422122105501	Veeraragavan. D	D. Veeraragavan	D. Veeraragavan	D. Veeraragavan	D. Veeraragavan	D. Veeraragavan
23	422122105301	Antony Johnson. M	M. Antony Johnson	M. Antony Johnson	M. Antony Johnson	M. Antony Johnson	M. Antony Johnson
24	422122105302	Gokula Krishnan. R	R. Gokula Krishnan	R. Gokula Krishnan	R. Gokula Krishnan	R. Gokula Krishnan	R. Gokula Krishnan
25	422122105303	Pugazhenth. M	M. Pugazhenth	M. Pugazhenth	M. Pugazhenth	M. Pugazhenth	M. Pugazhenth
26	422122105304	Sudharshan. S	S. Sudharshan	S. Sudharshan	S. Sudharshan	S. Sudharshan	S. Sudharshan



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY
ANGUCHETTYPALAYAM, PANRUTI - 607 106.



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Value added course - IoT Basics and applications

Sem /Year: IV/VII

Batch: 2021-2025

S.No.	Register no.	Name of the student	25.02.25	26.02.25	27.02.25	28.02.25	01.03.25
1	422121105001	Abitha A	A. Abitha	A. Abitha	A. Abitha	A. Abitha	A. Abitha
2	422121105002	Adhirai V	V. Adhirai	V. Adhirai	V. Adhirai	V. Adhirai	V. Adhirai
3	422121105004	Akash A(5.12.2003)	A. Akash	A. Akash	A. Akash	A. Akash	A. Akash
4	422121105006	Asraf Ali A	A. Asraf Ali	A. Asraf Ali	A. Asraf Ali	A. Asraf Ali	A. Asraf Ali
5	422121105007	Balamurugan S	S. Balamurugan	S. Balamurugan	S. Balamurugan	S. Balamurugan	S. Balamurugan
6	422121105008	Chithiraiselvan S	S. Chithiraiselvan	S. Chithiraiselvan	S. Chithiraiselvan	S. Chithiraiselvan	S. Chithiraiselvan
7	422121105009	Denis S	S. Denis	S. Denis	S. Denis	S. Denis	S. Denis
8	422121105010	Dhanush D	D. Dhanush	D. Dhanush	D. Dhanush	D. Dhanush	D. Dhanush
9	422121105011	Dishan M	M. Dishan	M. Dishan	M. Dishan	M. Dishan	M. Dishan
10	422121105012	Elavarasan E	E. Elavarasan	E. Elavarasan	E. Elavarasan	E. Elavarasan	E. Elavarasan
11	422121105013	Elumalai G	G. Elumalai	G. Elumalai	G. Elumalai	G. Elumalai	G. Elumalai
12	422121105014	Ganesh M	M. Ganesh	M. Ganesh	M. Ganesh	M. Ganesh	M. Ganesh
13	422121105015	Gnanaraj S	S. Gnanaraj	S. Gnanaraj	S. Gnanaraj	S. Gnanaraj	S. Gnanaraj
14	422121105016	Gowtham V	V. Gowtham	DISCONTINUED			V. Gowtham
15	422121105017	Hariharan V	V. Hariharan	V. Hariharan	V. Hariharan	V. Hariharan	V. Hariharan
16	422121105018	Jaganathan S	S. Jaganathan	S. Jaganathan	S. Jaganathan	S. Jaganathan	S. Jaganathan
17	422121105019	Jana.M	M. Jana	M. Jana	M. Jana	M. Jana	M. Jana
18	422121105020	Jegatheswari A	A. Jegatheswari	A. Jegatheswari	A. Jegatheswari	A. Jegatheswari	A. Jegatheswari



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY
ANGUCHETTYPALAYAM, PANRUTI - 607 106.
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



Value added course - IoT Basics and applications

19	422121105021	Micheal Aasic B	B. Muthu	B. Muthu	B. Muthu	B. Muthu	B. Muthu
20	422121105022	Mohanraj K	K. Mohan	K. Mohan	K. Mohan	K. Mohan	K. Mohan
21	422121105025	Praveen K	K. Praveen	K. Praveen	K. Praveen	K. Praveen	K. Praveen
22	422121105026	Praveen N	N. Praveen	N. Praveen	N. Praveen	N. Praveen	N. Praveen
23	422121105027	Prem S	S. Prem	S. Prem	S. Prem	S. Prem	S. Prem
24	422121105028	Premkumar S	S. Premkumar	S. Premkumar	S. Premkumar	S. Premkumar	S. Premkumar
25	422121105029	Raguraman S	S. Raguraman	S. Raguraman	S. Raguraman	S. Raguraman	S. Raguraman
26	422121105030	Santhosh P	P. Santhosh	P. Santhosh	P. Santhosh	P. Santhosh	P. Santhosh
27	422121105031	Saranraj S	S. Saranraj	S. Saranraj	S. Saranraj	S. Saranraj	S. Saranraj
28	422121105032	Seethapathi M	M. Seethapathi	M. Seethapathi	M. Seethapathi	M. Seethapathi	M. Seethapathi
29	422121105033	Sivabalan B L	B.L. Sivabalan	B.L. Sivabalan	B.L. Sivabalan	B.L. Sivabalan	B.L. Sivabalan
30	422121105034	Sivaraj K	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
31	422121105035	Sowmiya S	S. Sowmiya	S. Sowmiya	S. Sowmiya	S. Sowmiya	S. Sowmiya
32	422121105036	Sridhar B	B. Sridhar	B. Sridhar	B. Sridhar	B. Sridhar	B. Sridhar
33	422121105037	Subash B	B. Subash	B. Subash	B. Subash	B. Subash	B. Subash
34	422121105038	Sumanraj T	T. Sumanraj	T. Sumanraj	T. Sumanraj	T. Sumanraj	T. Sumanraj
35	422121105039	Sureshkumar S	S. Sureshkumar	S. Sureshkumar	S. Sureshkumar	S. Sureshkumar	S. Sureshkumar
36	422121105040	Udhayalakshmi T	T. Udhayalakshmi	T. Udhayalakshmi	T. Udhayalakshmi	T. Udhayalakshmi	T. Udhayalakshmi
37	422121105042	Vishnuchandiran T	T. Vishnuchandiran	T. Vishnuchandiran	T. Vishnuchandiran	T. Vishnuchandiran	T. Vishnuchandiran
38	422121105301	Agash A	A. Agash	A. Agash	A. Agash	A. Agash	A. Agash



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY
ANGUCHETTYPALAYAM, PANRUTI – 607 106.
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



Value added course – IoT Basics and applications

39	422121105302	Anbu	Anbu	Anbu	Anbu	Anbu	Anbu
40	422121105304	Dhivakar M	M. Dhivakar	M. Dhivakar	M. Dhivakar	M. Dhivakar	M. Dhivakar
41	422121105305	Manivasagan M	M. Manivasagan	M. Manivasagan	M. Manivasagan	M. Manivasagan	M. Manivasagan
42	422121105306	Megharjun S	Megharjun S	Megharjun S	Megharjun S	Megharjun S	Megharjun S
43	422121105307	Mohamed Irfan M I	M. Irfan M I	M. Irfan M I	M. Irfan M I	M. Irfan M I	M. Irfan M I
44	422121105308	Nijanth Kumar D	D. Nijanth Kumar	D. Nijanth Kumar	D. Nijanth Kumar	D. Nijanth Kumar	D. Nijanth Kumar
45	422121105309	Praveen Kumar R	R. Praveen Kumar	R. Praveen Kumar	R. Praveen Kumar	R. Praveen Kumar	R. Praveen Kumar
46	422121105310	Umar Bin Hussai M	M. Umar Bin Hussai	M. Umar Bin Hussai	M. Umar Bin Hussai	M. Umar Bin Hussai	M. Umar Bin Hussai
47	422121105311	Vinoth M	Vinoth M	Vinoth M	Vinoth M	Vinoth M	Vinoth M

[Signature]
EVENT COORDINATOR
 5/8/25

[Signature]
EXTERNAL COORDINATOR

[Signature]
HOD
 5/8/25

Head of the Department
 Department of Electrical and Electronics Engineering
 St. Anne's College of Engineering and Technology
 Anguchetty Palayam, Panruti (T.k), Cuddalore - Pin: 607 106

[Signature]
PRINCIPAL
DR. R. AROKIAJASS, M.E., Ph.D.,
Principal,
St. Anne's College of Engineering & Technology.
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 110.



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

ANGUCHETTYPALAYAM, PANRUTI – 607 106.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

VALUE ADDED COURSE – IOT BASICS AND APPLICATIONS – ASSESSMENT MARKS

Batch:2022-2026

Sem/Year:V/III

S.No.	Register no.	Name of the student	Test - 01	Test -02
1	422122105001	Abinaya P	95	90
2	422122105002	Abinaya S	95	85
3	422122105003	Abishek. R	85	88
4	422122105005	Bairavan N	80	90
5	422122105007	Harikrishnan K	75	92
6	422122105008	Hariprasanth. U	85	90
7	422122105009	Harish. S	98	85
8	422122105010	Jenifer Dency I	92	75
9	422122105011	Manikandan. R	94	85
10	422122105014	Prathish K	95	98
11	422122105015	Praveen T	90	92
12	422122105016	Praveena. P	85	75
13	422122105017	Praveen Raj T	88	85
14	422122105019	Sanjay N	90	92
15	422122105020	Saravanan. S	92	75
16	422122105021	Saravana Velu. B	90	80
17	422122105022	Sedhuraman. M	85	85
18	422122105023	Shiban. K	82	88
19	422122105024	Vasanthakrishnan. V	90	80
20	422122105025	Vignesh. E	92	95
21	422122105501	Veeraragavan. D	75	92
22	422122105301	Antony Johnson. M	80	90
23	422122105302	Gokula Krishnan. R	85	92
24	422122105303	Pugazhenthii. M	88	90
25	422122105304	Sudharshan. S	80	85

Batch: 2021-2025

Sem /Year: IV/VII

S.No.	Register no.	Name of the student	Test - 01	Test -02
1	422121105001	Abitha A	92	94
2	422121105002	Adhirai V	90	92
3	422121105004	Akash A	85	97
4	422121105006	Asraf Ali A	75	95
5	422121105007	Balamurugan S	85	90
6	422121105008	Chithiraiselvan S	92	94
7	422121105009	Denis S	90	92
8	422121105010	Dhanush D	85	97



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

VALUE ADDED COURSE – IOT BASICS AND APPLICATIONS – ASSESSMENT MARKS

9	422121105011	Dishan M	95	94
10	422121105012	Elavarasan E	92	97
11	422121105013	Elumalai G	94	94
12	422121105014	Ganesh M	92	88
13	422121105015	Gnanaraj S	97	94
14	422121105017	Hariharan V	85	97
15	422121105018	Jaganathan S	92	94
16	422121105019	Jana.M	94	90
17	422121105020	Jegatheswari A	92	85
18	422121105021	Micheal Aasic B	97	88
19	422121105022	Mohanraj K	94	94
20	422121105025	Praveen K	90	92
21	422121105026	Praveen N	85	97
22	422121105027	Prem S	88	94
23	422121105028	Premkumar S	90	90
24	422121105029	Raguraman S	92	85
25	422121105030	Santhosh P	90	88
26	422121105031	Saranraj S	94	90
27	422121105032	Seethapathi M	92	95
28	422121105033	Sivabalan B L	97	85
29	422121105034	Sivaraj K	AB	AB
30	422121105035	Sowmiya S	92	90
31	422121105036	Sridhar B	95	97
32	422121105037	Subash B	85	94
33	422121105038	Sumanraj T	88	88
34	422121105039	Sureshkumar S	90	90
35	422121105040	Udhayalakshmi T	85	95
36	422121105042	Vishnuchandiran T	88	87
37	422121105301	Agash A	85	45
38	422121105302	Anbu	85	86
39	422121105304	Dhivakar M	94	95
40	422121105305	Manivasagan M	92	85
41	422121105306	Megharjun S	97	88



**ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY
ANGUCHETTYPALAYAM, PANRUTI – 607 106.**

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

VALUE ADDED COURSE – IOT BASICS AND APPLICATIONS – ASSESSMENT MARKS

42	422121105306	Megharjun S	97	88
43	422121105307	Mohamed Irfan M I	94	90
44	422121105308	Nijanth Kumar D	88	85
45	422121105309	Praveen Kumar R	90	88
46	422121105310	Umar Bin Hussai M	95	90
47	422121105311	Vinoth M	92	90


EVENT COORDINATOR 5/3/25


EXTERNAL COORDINATOR


HoD 5/3/25


PRINCIPAL 5/3/25
Dr. R. AROKIADASS, M.E., Ph.D.

Head of the Department
Department of Electrical and Electronics Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.), Pin: 607 106

Principal,
St. Anne's College of Engineering & Technology
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k)
Cuddalore-(Dist), Pin: 607 110



REPORT ON "IOT BASICS WITH REAL TIME APPLICATIONS"

Department of Electrical and Electronics Engineering in association with PETS had organized a five days Value Added course on "IOT BASICS WITH REAL TIME APPLICATIONS" at Power System Simulation Laboratory from 25.02.2025 to 01.03.2025. Mr. Kumar.N, Director Kiwistron Tiruchy and his trainer team was the Resource Person and the event started with an inauguration in the presence of Respected Secretary Rev. Sr. Dr. B. J. Queensly Jeyanthi and Principal Dr. R. Arokiadass. Prayer Song in the presence of Faculties and students of the department. Our final year student Ms. Athirai gave the welcome address to the Resource Person and all the dignitaries on the dais. Mr. V. Balaji Head of the Department introduced the chief guest and all the respected dignitaries then.

Respected Secretary Rev. Sr. Dr. B. J. Queensly Jeyanthi congratulated our department head and staff for arranging such a type of value-added course and encouraged the department staff to arrange more events apart from theoretical knowledge in the future, and she also wished our students to learn the course properly and insisted the students attend the value-added with great interest throughout the session. Our beloved principal, Dr. R. Arokiadass, in his speech, insisted to our students about the importance of value-added courses and motivated our students to learn such practical-oriented courses and further insisted to learn more recent developments in our core areas.

The workshop's objective was to acquaint participants with the Internet of Things (IoT) concept and provide hands-on experience in integrating hardware components, specifically to create a practical IoT-oriented project. The course session was handled by Mr. R.Mugeshwaran, Team Lead & Embedded Developer and his team with two different Laboratory and the students provided an overview of IoT, explaining how they emit ultrasonic waves and measuring the time taken for the waves to bounce back after hitting an object.

In the Day 2, Participants were given Raspberry Pi Pico W boards and LEDs to practice the concepts they had learned. They were guided step-by-step through the process of setting up the circuit, connecting the components, and writing the necessary code to make the LED blink. This hands-on experience allowed them to grasp the connection between software and hardware.



In the Day 3, Attendees were taught how to upload the code onto the Arduino board using the Arduino IDE. They learned about the compilation and uploading process, and how to troubleshoot any errors that might occur. After uploading, participants tested the LED blinking program to observe the results. They followed step-by-step instructions to assemble the circuit, connect the wires, and upload the provided code to the Arduino.

In day 4 and day 5 the students discussed real-world IoT applications that involve LED-like components. Examples included smart lighting systems, environmental monitoring, and home automation, illustrating how basic concepts could be expanded into complex projects. Ideas such as smart traffic management, industrial automation, and healthcare applications were explored

The value-added course was concluded with a valedictory function presided over by Mr. V. Balaji, HoD/EEE, and Mr. Kumar N., Director Kiwistron Tiruchy, and his trainer team. The event coordinator, Mr. A. Sundara Pandiyan, AP/EEE, welcomes the gathering and thanks the management for giving permission for the arrangement of such a valuable program, as well as the trainers for providing our students with practical knowledge in IoT in our core areas. The session was followed by a feedback session and certificate distribution. Overall, the workshop was so enlightening, and it must have sparked something within students to get innovative ideas and get involved in real-time projects.





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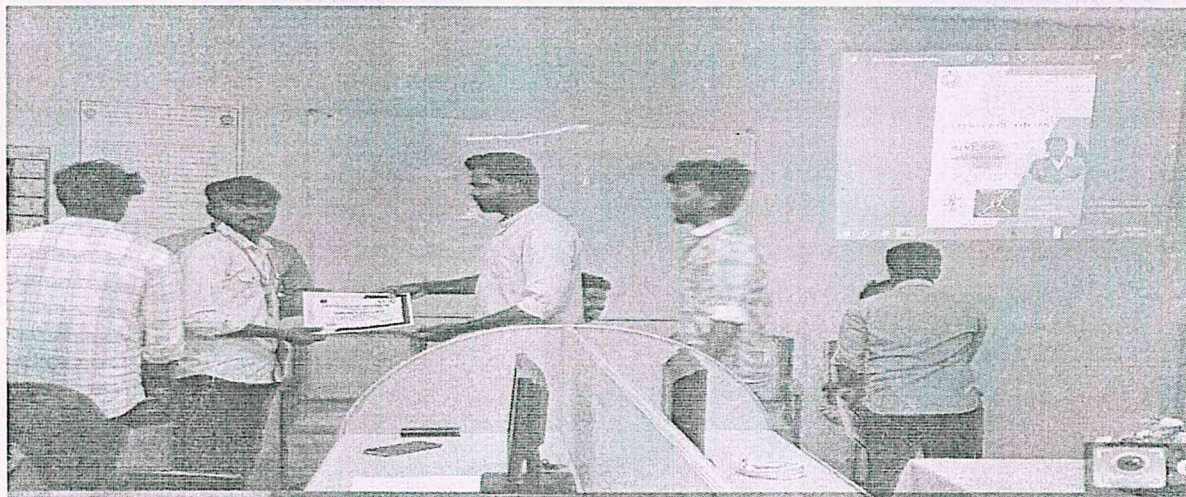
Cuddalore, Tamil Nadu, India

SANCET, Tamil Nadu 607106, India, Cuddalore, Tamil Nadu, India

Lat 11.775067° Long 79.507471°

01/03/2025 03:32 PM GMT +05:30

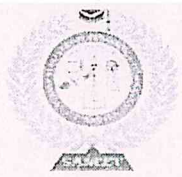
Google



V. Raji
5/3/25
HOD /EEE

Head of the Department
Department of Electrical and Electronics Engineering
St. Anne's College of Engineering and Technology
Anguchettipalayam, Panruti-(T.k), Cuddalore-(Dist), Pin:607 106

R. Arunkumar
Principal
Dr.R.AROKIADESS, M.E., Ph.D.,
Principal,
St. Anne's College of Engineering & Technology,
ANGUCHETTPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 110.



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FEEDBACK ON VALUE ADDED COURSE - *IoT BASICS WITH REAL TIME APPLICATIONS*

DEPARTMENT: EEE

DATE: *25/2/25 - 01/03/25*

BATCH: *2024 - 2025*

Q. No	Questions	Student Count	Credit Category					Total Credit	Credit Secured	Percentage
			5	4	3	2	1			
1	Course plan	45	35	0	10	0	0	225	205	91%
2	Training duration	45	35	0	10	0	0	225	205	91%
3	Interactive approach	45	45	0	0	0	0	225	225	100%
4	Mode of presentation	45	45	0	0	0	0	225	225	100%
5	The course material handed out was adequate	45	35	10	0	0	0	225	215	96%
6	Usage of teaching aids and ICT in the class by faculty to facilitate teaching	45	13	32	0	0	0	225	193	86%
7	The course exposed you to new knowledge and practices	45	35	10	0	0	0	225	215	96%
8	Were objectives of the course clear to you?	45	35	10	0	0	0	225	215	96%
9	The course contents met with your expectations	45	35	10	0	0	0	225	215	96%
10	How would you rate the overall course content?	45	35	10	0	0	0	225	215	96%

A. S. Srinivas
PREPARED BY

V. S. Srinivas
VERIFIED BY
Head of the Department
Department of Electrical and Electronics Engineering
St. Anne's College of Engineering and Technology
Anguchettipalayam, Panruti-(T.k) Cuddalore-(Dist.), Pin: 607 106

R. Srinivas
APPROVED BY
Dr. R. ARUMADASS, M.E., Ph.D.,
Principal,
St. Anne's College of Engineering & Technology,
ANGUCHETTPALAYAM,
Siruvathur-(Post), Panruti-(T.k),



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in Association with

Kiwistron Technology, Information and Internet

**Five days Value added course on
IoT Basics with Real Time Applications**

Certificate of Participation

This is to certify that

Mr./Ms. _____ ABINAYA P

of Department of Electrical and Electronics Engineering,

St. Anne's College of Engineering and Technology

has actively participated in

Five days value added course on

IoT basics with real time applications

organized by

Department of Electrical and Electronics Engineering,

St. Anne's College of Engineering and Technology, Panruti

from 25th February, 2025 to 1st March, 2025.

V. Balaji

HoD/EEE

(Mr. V. Balaji)

R. Arokiadass

Principal

(Dr. R. Arokiadass)



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in Association with

Kiwistron Technology, Information and Internet

**Five days Value added course on
IoT Basics with Real Time Applications**

Certificate of Participation

This is to certify that

Mr./Ms. ABITHA A

of Department of Electrical and Electronics Engineering,

St. Anne's College of Engineering and Technology

has actively participated in

Five days value added course on

IoT basics with real time applications

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Department of Electrical and Electronics Engineering,

St. Anne's College of Engineering and Technology, Panruti

from 25th February, 2025 to 1st March, 2025.

V. Balaji

HoD/EEE

(Mr. V. Balaji)

R. Arokiadass

Principal

(Dr. R. Arokiadass)



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DEPARTMENT OF MECHANICAL ENGINEERING

CIRCULAR
(2024-2025)

CIR No: SANCET/MECH/CIR02

Date: 09/09/24

The Department of Mechanical Engineering Department has arranged a Value-Added course (VAC) on MVA010-Energy Resources and Management for Third year (V SEM) and Final year (VII SEM) Mechanical students.

Name of the Resource Person:

- 1) **Mr.K. Shanmuga Elango, M.Tech,(Ph.d) HoD/Mech,**
- 2) **Mr.P.Murugan, M.E,(Ph.d) AP/Mech,**
- 3) **Mr.M.Sivamanikandan, M.E AP/Mech,**
Department of Mechanical Engineering
St. Anne's College of Engineering and Technology (SANCET)
- 4) **Dr.V.Shanmugam , ASP/EEE,**
Department of Electrical and Electronics Engineering
St. Anne's College of Engineering and Technology (SANCET)

Venue: **Mechatronics Lab**

Date and Time: 12/09/2024 TO 07/11/2024 & 01.00 pm to 04.30pm

P. m
9/9/24
EVENT CO-ORDINATOR

K. Shanmuga Elango
9/9/24
HoD
Head of the Dept
Dept. of Mechanical Eng...
St. Anne's College of Engineering & Technology,
Anguchettipalayam, Panruti-607 106.

R. Arakiadass
6.9.24
PRINCIPAL
Dr. R. AROKIADASS, M.E., Ph.D.,
Principal,
St. Anne's College of Engineering & Technology,
ANGUCHETTPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 110.



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Website: www.stannescet.ac.in

Email: stannescet@gmail.com

Department of Mechanical Engineering

in association with

Mechanical Engineering Students Association

Organizes value added course

on

MVA010-Energy Resources and Management

Resource Person:

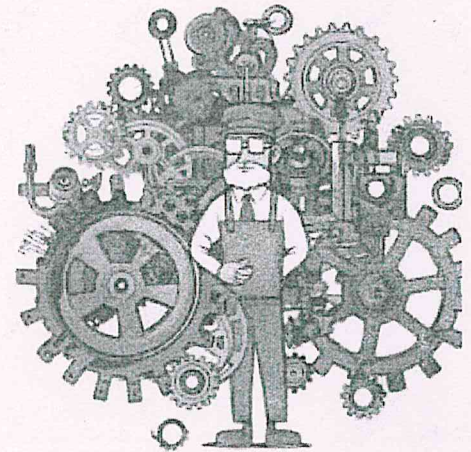
1) **Mr.K. Shanmuga Elango, M.Tech,(Ph.d)**
HoD/Mech

2) **Mr.P.Murugan, M.E,(Ph.d)**
Assistant Professor/Mech

3) **Mr.M.Sivamanikandan, M.Tech**
Assistant Professor/Mech

Department of Mechanical Engineering
St. Anne's College of Engineering and Technology (SANCET)

4) **Dr.V.Shanmugam ,M.E,Ph.d**
Associate Professor/EEE
Department of Electrical and Electronics Engineering
St. Anne's College of Engineering and Technology (SANCET)



EVENT CO-ORDINATOR

P.Murugan, M.E,(Ph.d) AP/Mech.

Venue: Mechatronics Lab

Date: 12/09/2024 TO 07/11/2024

Time: 01.00 pm to 04.30pm



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DEPARTMENT OF MECHANICAL ENGINEERING

VALUE ADDED COURSE

TENTATIVE TIME TABLE

Course: MVA010– Energy Resources and Management

Date	01:00 PM to 02:55PM	02:55PM to 03:05PM	03:05PM to 04:30PM
12.09.2024	Energy - Power – Past & Present scenario of World.	Break	National Energy consumption Data Environmental aspects associated with energy utilization
19.09.2024	Energy Auditing: Need, Types, Methodology and Barriers.	Break	Role of Energy Managers. Instruments for energy auditing.& Components of EB billing – HT and LT supply
26.09.2024	Transformers, Cable Sizing, Concept of Capacitors, Power Factor Improvement, Harmonics	Break	Electric Motors - Motor Efficiency Computation, Energy Efficient Motors
03.10.2024	Illumination – Lux, Lumens, Types of lighting [First Internal Assessment (CIA-I) one hour]	Break	Efficacy, LED Lighting and scope of Economic in Illumination.
10.10.2024	Stoichiometry, Boilers, Furnaces and Thermic Fluid Heaters	Break	Efficiency computation and economic measure
17.10.2024	Steam: Distribution & Usage: Steam Traps, Condensate Recovery	Break	Flash Steam Utilization, Insulators & Refractories Pumps, Fans, Blowers,
24.10.2024	Compressed Air Systems, Refrigeration systems	Break	Air Conditioning Systems
07.11.2024	Cooling Towers.	Break	D.G. sets [Second Internal Assessment Test (CIA-II) one hour]

INTERNAL ASSESSMENT TEST SCHEDULE

Date	01:00 PM – 02:55PM
10.10.2024	First Internal Assessment Test (CIA-I)
07.11.2024	Second Internal Assessment Test (CIA-II)


Head of the Department/MECH

(With date & seal)


Head of the Institution

Dr. R. AROKIADASS, M.E., Ph.D.,
Principal,
St. Anne's College of Engineering & Technology,
ANGUCHETTYPALAYAM,
Srivathur (Post), Panruti (T.k),
Cuddalore (Dist). Pin: 607 110.



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DEPARTMENT OF MECHANICAL ENGINEERING VALUE ADDED ON ENERGY RESOURCES AND MANAGEMENT STUDENTS REGISTER NAME LIST

V SEM

Batch : 2022-2026

S.No.	Register No.	Name
1	422122114001	Abishek A
2	422122114002	Ajay V
3	422122114003	Akash S
4	422122114004	Arul T
5	422122114005	Bala P
6	422122114006	Chandru V
7	422122114007	Darvin C
8	422122114008	Dhivyadharshan M
9	422122114009	Gunal K
10	422122114010	Hariharan S
11	422122114011	Harikrishnakumar T
12	422122114012	Harikrishnan I
13	422122114013	Iyyappan R
14	422122114016	Kabilan R
15	422122114018	Manibarathi P
16	422122114019	Mohammed Ismail S
17	422122114020	Saranraj S
18	422122114021	Sathiyabalan M

P. My
CO ORDINATOR


12/9/24
HoD/MECH

Head of the Department
Department of Mechanical Engineering
St. Anne's College of Engineering and Technology
Anguchettipalayam, Panruti-(T.k) Cuddalore-(Dist.), Pin: 607 106



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DEPARTMENT OF MECHANICAL ENGINEERING

VALUE ADDED COURSE ON ENERGY RESOURCES AND MANAGEMENT
STUDENTS REGISTER LIST

Batch:2021-2025

Sem:7

S.No	Reg.No	Name
1	422121114001	Adhavan .R
2	422121114002	Agazhian.M
3	422121114003	Ahamedashif S
4	422121114005	Bharath.P
5	422121114006	Desigan.R
6	422121114008	Dhivakar.T
7	422121114009	Igno Crossly.M
8	422121114010	Karthikeyan.T
9	422121114011	Kaviarasan.K
10	422121114012	Kaviprasath.M
11	422121114013	Melwin.R
12	422121114014	Nagalingam.K
13	422121114015	Panjamoorthy .S
14	422121114016	Premkumar.G
15	422121114018	Rajesh.A
16	422121114020	Tony Fidel Synthia.V
17	422121114021	Veerapandi.T
18	422121114022	Velpandiyar.D
19	422121114023	Vishnu Raj.T
20	422121114024	Vishwa.R
21	422121114302	Kathiravan.M

P. My
Co ordinator

H. S. S.
12/9/2024
HoD/Mech

Head of the Department
Department of Mechanical Engineering
St. Anne's College of Engineering and Technology
Anguchettipalayam, Panruti-(T.k) Cuddalore-(Dist.), Pin: 607 106



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DEPARTMENT OF MECHANICAL ENGINEERING

VALUE - ADDED COURSE(ENERGY RESOURCES AND MANAGEMENT)

YEAR/SEM:III/V

Aug2024-Dec2024

ATTENDANCE STATEMENT

S. No.	Register Number	Name of the student	12/9/24	19-9-24	26-9-24	3-10-24	17-10-24	24-10-24
			A.N	A.N	A.N	A.N	A.N	A.N
1	422122114001	Abishek A	Abishek	Abishek	Abishek	Abishek	Abishek	Abishek
2	422122114002	Ajay V	v.Ajay	v.Ajay	v.Ajay	v.Ajay	v.Ajay	v.Ajay
3	422122114003	Akash S	Akash	Akash	Akash	Akash	Akash	Akash
4	422122114004	Arul T	AB	AB	AB	AB	AB	AB
5	422122114005	Bala P	P.Bala	P.Bala	P.Bala	P.Bala	P.Bala	P.Bala
6	422122114006	Chandru V	Chandru	Chandru	Chandru	Chandru	Chandru	Chandru
7	422122114007	Darvin C	Darvin	Darvin	Darvin	Darvin	Darvin	Darvin
8	422122114008	Dhivyadharshan M	Dharshan	Dharshan	Dharshan	Dharshan	Dharshan	Dharshan
9	422122114009	Gunak K	K.Gunak	K.Gunak	K.Gunak	K.Gunak	K.Gunak	K.Gunak
10	422122114010	Hariharan S	S.Hariharan	S.Hariharan	S.Hariharan	S.Hariharan	S.Hariharan	S.Hariharan
11	422122114011	Harikrishnakumar T	T.Harikrishna	T.Harikrishna	T.Harikrishna	T.Harikrishna	T.Harikrishna	T.Harikrishna
12	422122114012	Harikrishnan I	I.Harikrishna	I.Harikrishna	I.Harikrishna	I.Harikrishna	I.Harikrishna	I.Harikrishna
13	422122114013	Iyyappan R	R.Iyyappan	R.Iyyappan	R.Iyyappan	R.Iyyappan	R.Iyyappan	R.Iyyappan
14	422122114016	Kabilan R	R.Kabilan	R.Kabilan	R.Kabilan	R.Kabilan	R.Kabilan	R.Kabilan
15	422122114018	Manibarathi P	P.Manibarathi	P.Manibarathi	P.Manibarathi	P.Manibarathi	P.Manibarathi	P.Manibarathi
16	422122114019	Mohammed Ismail S	S.Mohammed	S.Mohammed	S.Mohammed	S.Mohammed	S.Mohammed	S.Mohammed
17	422122114020	Saranraj S	S.Saranraj	S.Saranraj	S.Saranraj	S.Saranraj	S.Saranraj	S.Saranraj
18	422122114021	Sathiyabalan M	M.Sathiyabalan	M.Sathiyabalan	M.Sathiyabalan	M.Sathiyabalan	M.Sathiyabalan	M.Sathiyabalan
19	422122114023	Tamilmaran V	V.Tamilmaran	V.Tamilmaran	V.Tamilmaran	V.Tamilmaran	V.Tamilmaran	V.Tamilmaran
20	422122114024	Tamil Selvan D	AB	AB	AB	AB	AB	AB

P. msh
COORDINATOR

K. Srinivasan
HOD

R. Arukiadass
PRINCIPAL
Dr. R. AROKIADASS, M.E., Ph.D
Principal,
St. Anne's College of Engineering & Technology
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T. H.),
Cuddalore-(Dist), Pin: 607 110.



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DEPARTMENT OF MECHANICAL ENGINEERING
VALUE - ADDED COURSE(ENERGY RESOURCES AND MANAGEMENT)

YEAR/SEM:III/V

Aug2024-Dec2024

ATTENDANCE STATEMENT

S. No.	Register Number	Name of the student	7-11-24					
			A.N	A.N	A.N	A.N	A.N	A.N
1	422122114001	Abishek A	Abishek					
2	422122114002	Ajay V	Ajay					
3	422122114003	Akash S	Akash					
4	422122114004	Arul T	AB					
5	422122114005	Bala P	P.Bala					
6	422122114006	Chandru V	Chandru					
7	422122114007	Darvin C	Darvin					
8	422122114008	Dhivyadharshan M	Dharshan					
9	422122114009	Gunak K	Gunak					
10	422122114010	Hariharan S	Hariharan					
11	422122114011	Harikrishnakumar T	T.Harish					
12	422122114012	Harikrishnan I	I.Harish					
13	422122114013	Iyyappan R	AB					
14	422122114016	Kabilan R	R.Kabilan					
15	422122114018	Manibarathi P	P.Manibarathi					
16	422122114019	Mohammed Ismail S	S.Mohammed					
17	422122114020	Saranraj S	S.Saranraj					
18	422122114021	Sathiyabalan M	M.Sathiyabalan					
19	422122114023	Tamilmaran V	V.Tamilmaran					
20	422122114024	Tamil Selvan D	AB					

P. m. f.
COORDINATOR

[Signature]
HOD

[Signature]
PRINCIPAL



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DEPARTMENT OF MECHANICAL ENGINEERING

VALUE - ADDED COURSE(ENERGY RESOURCES AND MANAGEMENT)

YEAR/SEM:IV/VII

Aug2024-Dec2024

ATTENDANCE STATEMENT

S. No.	Register Number	Name of the student						
			A.N	A.N	A.N	A.N	A.N	A.N
1	422121114001	Adhavan .R	AB	AB	AB	AB	AB	AB
2	422121114002	Agazhian.M	AB	AB	AB	AB	AB	AB
3	422121114003	Ahamedashif S	S.A.M	S.A.M	S.A.M	S.A.M	S.A.M	S.A.M
4	422121114005	Bharath.P	P.R.H	P.R.H	P.R.H	P.R.H	P.R.H	P.R.H
5	422121114006	Desigan.R	B.D.S	B.D.S	B.D.S	B.D.S	B.D.S	B.D.S
6	422121114008	Dhivakar.T	T.D.A	T.D.A	T.D.A	T.D.A	T.D.A	T.D.A
7	422121114009	Igno Crossly.M	I.C.M	I.C.M	I.C.M	I.C.M	I.C.M	I.C.M
8	422121114010	Karthikeyan.T	K.T	K.T	K.T	K.T	K.T	K.T
9	422121114011	Kaviarasan.K	AB	AB	AB	AB	AB	AB
10	422121114012	Kaviprasath.M	M.K.P	M.K.P	M.K.P	M.K.P	M.K.P	M.K.P
11	422121114013	Melwin.R	AB	AB	AB	AB	AB	AB
12	422121114014	Nagalingam.K	N.K	N.K	N.K	N.K	N.K	N.K
13	422121114015	Panjamoorthy .S	S.P	S.P	S.P	S.P	S.P	S.P
14	422121114016	Premkumar.G	G.P	G.P	G.P	G.P	G.P	G.P
15	422121114018	Rajesh.A	A.R	A.R	A.R	A.R	A.R	A.R
16	422121114020	Tony Fidel Synthia.V	T.S	T.S	T.S	T.S	T.S	T.S
17	422121114021	Veerapandi.T	T.V	T.V	T.V	T.V	T.V	T.V
18	422121114022	Velpandiyam.D	D.V	D.V	D.V	D.V	D.V	D.V
19	422121114023	Vishnu Raj.T	T.V	T.V	T.V	T.V	T.V	T.V
20	422121114024	Vishwa.R	R.V	R.V	R.V	R.V	R.V	R.V
21	422121114302	Kathiravan.M	AB	AB	AB	AB	AB	AB

P. M. S
COORDINATOR

le. shanmugam
HOD

P. Arunkumar
PRINCIPAL
Dr. R. ARUNKIADASS, M.E., Ph.D
Principal,
St. Anne's College of Engineering & Technology,
ANGUCHETTPALAYAM,
Siruvathur-(Post), Panruti-(T 4),
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DEPARTMENT OF MECHANICAL ENGINEERING

VALUE - ADDED COURSE(ENERGY RESOURCES AND MANAGEMENT)

YEAR/SEM:IV/VII

Aug2024-Dec2024

ATTENDANCE STATEMENT

S. No.	Register Number	Name of the student	7.11.24	7.11.24				
			A.N	A.N	A.N	A.N	A.N	A.N
1	422121114001	Adhavan .R	AB	AB				
2	422121114002	Agazhian.M	AB	AB				
3	422121114003	Ahamedashif S	S.Abdh	S.Abdh	S.Abdh	S.Abdh	S.Abdh	S.Abdh
4	422121114005	Bharath.P	P.R.T	P.R.T				
5	422121114006	Desigan.R	B.Desigan	B.Desigan				
6	422121114008	Dhivakar.T	T.D.K	T.D.K				
7	422121114009	Igno Crossly.M	I.C	I.C				
8	422121114010	Karthikeyan.T	T.K	T.K				
9	422121114011	Kaviarasan.K	AB	AB				
10	422121114012	Kaviprasath.M	K.P	K.P				
11	422121114013	Melwin.R	AB	AB				
12	422121114014	Nagalingam.K	N.K	N.K				
13	422121114015	Panjamoorthy .S	S.P	S.P				
14	422121114016	Premkumar.G	P.G	P.G				
15	422121114018	Rajesh.A	R.A	R.A				
16	422121114020	Tony Fidel Synthia.V	T.S	S.V				
17	422121114021	Veerapandi.T	V.T	V.T				
18	422121114022	Velpandiyar.D	V.D	V.D				
19	422121114023	Vishnu Raj.T	V.R	V.R				
20	422121114024	Vishwa.R	V.R	V.R				
21	422121114302	Kathiravan.M	AB	AB				

COORDINATOR

HOD

PRINCIPAL



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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ANGUCHETYPALAYAM, PANRUTI – 607 106

DEPARTMENT OF MECHANICAL ENGINEERING

VALUE ADDED COURSE ON ENERGY RESOURCES AND MANAGEMENT

MARK STATEMENT

Year - IV / SEM -VII

Batch : 2021-2025

S.No.	Register No.	Name of the students	Maximum Marks (100)
1	422121114001	Adhavan .R	70
2	422121114002	Agazhian.M	72
3	422121114003	Ahamedashif S	80
4	422121114005	Bharath.P	85
5	422121114006	Desigan.R	90
6	422121114008	Dhivakar.T	75
7	422121114009	Igno Crossly.M	80
8	422121114010	Karthikeyan.T	82
9	422121114011	Kaviarasan.K	85
10	422121114012	Kaviprasath.M	90
11	422121114013	Melwin.R	80
12	422121114014	Nagalingam.K	78
13	422121114015	Panjamoorthy .S	85
14	422121114016	Premkumar.G	95
15	422121114018	Rajesh.A	70
16	422121114020	Tony Fidel Synthia.V	76
17	422121114021	Veerapandi.T	80
18	422121114022	Velpandiyam.D	94
19	422121114023	Vishnu Raj.T	90
20	422121114024	Vishwa.R	85
21	422121114302	Kathiravan.M	82

P. may
CO-ORDINATOR

K. S. J.
HOD/MECH

Head of the Department
Department of Mechanical Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.), Pin: 607 106



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DEPARTMENT OF MECHANICAL ENGINEERING

VALUE ADDED COURSE ON ENERGY RESOURCES AND MANAGEMENT

MARK STATEMENT

Year-III / SEM -V

Batch : 2022-2026

S.No.	Register No.	Name of the students	Maximum Marks (100)
1	422122114001	Abishek A	85
2	422122114002	Ajay V	80
3	422122114003	Akash S	95
4	422122114004	Arul T	70
5	422122114005	Bala P	80
6	422122114006	Chandru V	75
7	422122114007	Darvin C	80
8	422122114008	Dhivyadharshan M	82
9	422122114009	Gunaj K	85
10	422122114010	Hariharan S	95
11	422122114011	Harikrishnakumar T	92
12	422122114012	Harikrishnan I	78
13	422122114013	Iyyappan R	85
14	422122114016	Kabilan R	80
15	422122114018	Manibarathi P	98
16	422122114019	Mohammed Ismail S	84
17	422122114020	Saranraj S	80
18	422122114021	Sathiyabalan M	86

P. m...

CO-ORDINATOR

HOD/MECH

Head of the Department
Department of Engineering
St. Anne's College of Engineering and Technology
Anguchettipalayam, Panruti-(Tk) Cuddalore-(Dist.), Pin: 607 106



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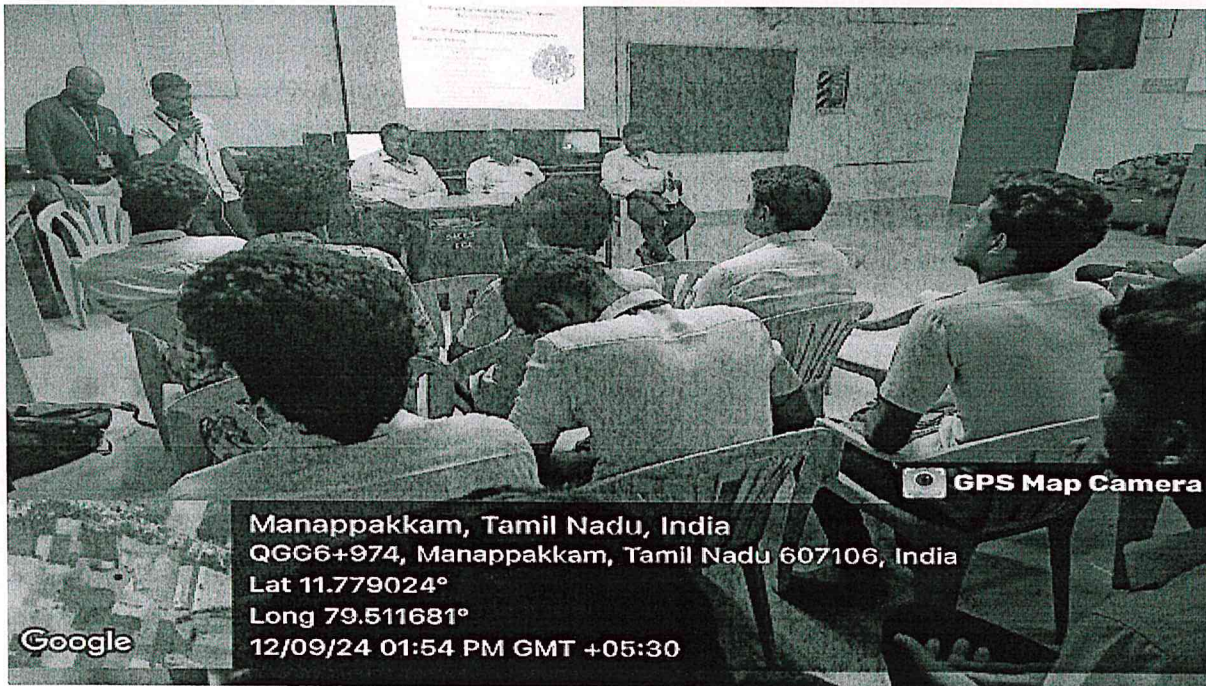
ANGUCHETTYPALAYAM, PANRUTI – 607 106

DEPARTMENT OF MECHANICAL ENGINEERING

VALUE ADDED COURSE ON ENERGY RESOURCES AND MANAGEMENT

REPORT

The Department of Mechanical Engineering has organized a five-day value-added course on "Energy Resources and Management" from 12.09.2024 to 07.11.2024 for III & IV years Mechanical Students. The training session was handled by Dr.K. Shanmuga Elango, ASP/MECH, Dr.V.Shanmugam, ASP/EEE, Mr. P. Murugan, M.E, AP/MECH, and Mr. Sivamanikandan AP/MECH of St. Anne's College of Engineering and Technology. In this course, participants gathered to on the adoption of Understand and analyse the energy data of industries has been increasing in recent years, driven by the need to stay ahead of the competition and meet the demands of an ever-changing global market. The adoption of Conduct energy audit and suggest methodologies for energy savings has been increasing in recent years, driven by the need to improve efficiency and competitiveness. From utilizes the available resources in optimal ways to create custom parts and products that meet the demands of their customers. This course greatly enhanced the perceptions of the participants. Totally, 41 students participated, and a certificate was provided for every student.



P. My
COURSE CO-ORDINATOR

K. Shanmugam
HOD

R. Arukiadass
PRINCIPAL

Head of the Department
Department of Mechanical Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti (Tk) Cuddalore-(Dist.), Pin: 607 106

Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 110.



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FEEDBACK ON VALUE ADDED COURSE

Department: MECHANICAL

Date: 12.09.24 to 7.11.24

Title: ENERGY RESOURCES AND MANAGEMENT

Q.No	Question	Student Count	Credit By Category					Total Credit	Credit Secured	Percentage
			5	4	3	2	1			
1	Course plan	39	8	8	1	0	0	70	62	89%
2	Training duration	39	5	9	0	0	0	70	61	87%
3	Interactive approach	39	6	6	3	0	0	70	59	84%
4	Mode of presentation	39	7	7	0	0	0	70	64	91%
5	The course material handed out was adequate	39	5	7	1	0	0	70	61	87%
6	Usage of teaching aids and ICT in the class by faculty to facilitate teaching	39	6	7	1	0	0	70	63	90%
7	The course exposed you to new knowledge and practices	39	7	7	1	0	0	70	60	86%
8	Were objectives of the course clear to you?	39	7	6	1	0	0	70	62	89%
9	The course contents met with your expectations	39	5	8	2	0	0	70	58	83%
10	How would you rate the overall course content?	39	7	5	0	0	0	70	62	89%


PREPARED BY


VERIFIED BY
Head of the Department
Department of Mechanical Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.), Pin: 607 106


APPROVED BY
Dr. R. ARONIAS, M.E., Ph.D.,
Principal,
St. Anne's College of Engineering & Technology,
ANGUCHETTYPALAYAM.



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Anguchettyalayam, Panruti Taluk, Cuddalore District, Tamilnadu-607 106



CERTIFICATE

OF PARTICIPATION

This certificate is proudly presented to

ABISHEK A

III YEAR - Department Of Mechanical Engineering

St. Anne's College of Engineering and Technology

has participated in five days value added course on

"ENERGY RESOURCES AND MANAGEMENT"

organized by

Department of Mechanical Engineering

St. Anne's College of Engineering and Technology

from 12.09.2024 to 07.11.2024.

Mr. K. Shanmuga Elango
HOD/MECH
St. Anne's CET, Panruti

Dr. R. ArokiaDass
Principal
St. Anne's CET, Panruti



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CERTIFICATE

OF PARTICIPATION

This certificate is proudly presented to

MANI BARATHI P

III YEAR - Department Of Mechanical Engineering

St. Anne's College of Engineering and Technology

has participated in five days value added course on

"ENERGY RESOURCES AND MANAGEMENT"

organized by

Department of Mechanical Engineering

St. Anne's College of Engineering and Technology

from 12.09.2024 to 07.11.2024.

Mr. K. Shanmuga Elango
HOD/MECH
St. Anne's CET, Panruti

Dr. R. ArokiaDass
Principal
St. Anne's CET, Panruti



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CERTIFICATE

OF PARTICIPATION

This certificate is proudly presented to

PREMKUMAR G

IV YEAR - Department Of Mechanical Engineering

St. Anne's College of Engineering and Technology

has participated in five days value added course on

"ENERGY RESOURCES AND MANAGEMENT"

organized by

Department of Mechanical Engineering

St. Anne's College of Engineering and Technology

from 12.09.2024 to 07.11.2024.

Mr. K. Shanmuga Elango
HOD/MECH
St. Anne's CET, Panruti

Dr. R. ArokiaDass
Principal
St. Anne's CET, Panruti



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DEPARTMENT OF MECHANICAL ENGINEERING

CIRCULAR

(2024 – 2025)

CIR. No.: SACET/S&H/CIR/

Date: 27. 02. 2025

The Department of Mechanical Engineering is planned to conduct a Value Added Courses on “**Troubleshooting and Maintenance of BS-4 IC Engine** “ for the benefit of B.E., Second year Mechanical Engineering students, from 03.03.25 to 07.03.25 (5 Days)

All the Students must attend all the classes without fail. The following faculty members are assigned to handle the course.

S.No	Name of the Faculty	Designation
1	Mr. T. Elangovan	Assistant Professor
2	Sr. A. Josephine Mary	Assistant Professor
3	Mr.P.Kumaresan	Mechanic

Time: 9.30 am to 4.30 pm

Venue: Strength of Material Laboratory

K. Suresh
HOD 27/2/25

Head of the Department,
Dept. of Mechanical Engineering,
St. Anne's College of Engineering & Technology,
Anguchettipalayam, Panruti-607 106.

R. Aradiadass
27.2.23
PRINCIPAL

Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St. Anne's College of Engineering & Technology
ANGUCHETTPALAYAM,
Siruvathur-(Post), Panruti-(T.k).
Cuddalore-(Dist), Pin: 607 106

Copy to:

1. Secretary
2. All HODs
3. Administrative Officer
4. File



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DEPARTMENT OF MECHANICAL ENGINEERING Organizes

Five Days Value- Added Course

on

“TROUBLESHOOTING AND MAINTENANCE OF BS-4 IC ENGINE”

Resource Persons



Mr. T. Elangovan, M.E
Assistant Professor
Department of MECH



Sr. A. Josephine Mary, M.Tech
Assistant Professor
Department of MECH

Date: 03.03.25 to 07.03.25

Venue: Mechatronics Lab



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DEPARTMENT OF MECHANICAL ENGINEERING

VALUE ADDED COURSE ON TROUBLESHOOTING AND MAINTENANCE OF BS-4 I.C ENGINE

SYLLABUS

THEORY

1. INTRODUCTION TO IC ENGINES

Definition, classification, and applications-History and development of IC engines

2. ENGINE COMPONENTS AND SYSTEMS

Cylinder block, cylinder head, and piston - Connecting rod, crankshaft, and camshaft
- Valve train, fuel system, and ignition system

3. ENGINE OPERATING PRINCIPLES

2-stroke and 4-stroke engine cycles - Air-fuel mixture preparation and combustion
- Engine performance parameters (power, torque, efficiency)

4. ENGINE PERFORMANCE AND TESTING

Engine testing and instrumentation - Performance characteristics (brake power, torque, specific fuel consumption) - Engine emissions and environmental impact

5. ENGINE DESIGN AND DEVELOPMENT

Engine design considerations (power, efficiency, emissions) - Engine development process (prototyping, testing, validation)

PRACTICAL

1. ENGINE DISASSEMBLY AND ASSEMBLY

Disassembly of a 4-stroke engine - Identification and inspection of engine components
- Reassembly of the engine

2. ENGINE TESTING AND TUNING

Engine performance testing (dyno testing) - Engine tuning and adjustment (carburetor, ignition timing)

3. ENGINE MAINTENANCE AND REPAIR

Routine maintenance tasks (oil changes, filter replacement) - Troubleshooting and repair of common engine problems


CO-ORDINATOR


HOD

Head of the Department
Department of Mechanical Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.), Pin: 607 106


PRINCIPAL

Dr. R. AROKIADASS, M.E., Ph.D.
Principal,
St. Anne's College of Engineering & Technology
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
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DEPARTMENT OF MECHANICAL ENGINEERING

VALUE ADDED COURSE ON TROUBLESHOOTING AND MAINTENANCE OF BS-4 I.C ENGINE

COURSE OBJECTIVES

1. To understand the principles and operation of IC engines
2. To Identify and explain the components and systems of IC engines
3. To Analyze and interpret engine performance data
4. To Develop practical skills in engine maintenance, repair, and testing
5. To Apply knowledge and skills to design and develop IC engine projects

COURSE OUTCOMES

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

1. **Explain** the fundamental principles, working cycles, and operational characteristics of Internal Combustion (IC) engines.
2. **Identify and describe** the key components, subsystems, and their functions in IC engines.
3. **Analyze and evaluate** engine performance parameters using experimental and theoretical methods.
4. **Demonstrate proficiency** in performing maintenance, troubleshooting, and repair of IC engines.
5. **Apply engineering principles** to design, develop, and optimize IC engine-based projects.

These outcomes ensure that students gain theoretical knowledge, practical skills, and problem-solving abilities related to IC engines.


CO-ORDINATOR


HOD

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PRINCIPAL

Dr.R.AROKIADASS, M.E., Ph.D.,
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St. Anne's College of Engineering & Technology,
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DEPARTMENT OF MECHANICAL ENGINEERING

VALUE ADDED COURSE ON TROUBLESHOOTING AND MAINTENANCE OF BS-4 I.C ENGINE

SESSION PLAN

SL. NO	DATE	FORENOON SESSION	AFTERNOON SESSION
1	03-03-2025	Definition, classification, and applications-History and development of IC engines	Disassembly of a 4-stroke engine -
2	04-03-2025	Cylinder block, cylinder head, and piston - Connecting rod, crankshaft, and camshaft - Valve train, fuel system, and ignition system	Routine maintenance tasks (oil changes, filter replacement) - Troubleshooting and repair of common engine problems -
3	05-03-2025	2-stroke and 4-stroke engine cycles - Air-fuel mixture preparation and combustion - Engine performance parameters (power, torque, efficiency)	Identification and inspection of engine components
4	06-03-2025	Engine testing and instrumentation - Performance characteristics (brake power, torque, specific fuel consumption) - Engine emissions and environmental impact	Engine tuning and adjustment (carburetor, ignition timing)
5	07-03-2025	Engine design considerations (power, efficiency, emissions) - Engine development process (prototyping, testing, validation)	Reassembly of the engine


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HOD

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Department of Mechanical Engineering
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PRINCIPAL

Dr.R.AROKIADASS, M.E., Ph.D.,
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St. Anne's College of Engineering & Technology,
ANGUCHETTYPALAYAM,
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DEPARTMENT OF MECHANICAL ENGINEERING

VALUE ADDED COURSE ON TROUBLESHOOTING AND MAINTENANCE
OF BS-4 IC ENGINE

Student Registration List

DEPT: MECH

DATE: 3.03.25 to 7.03.25

S.NO	REGISTER NO	NAME OF THE STUDENTS
1	422123114001	Adhimani A
2	422123114002	Ajanthan S
3	422123114004	Aravind A
4	422123114005	Edishon Kumar B
5	422123114006	Harish R
6	422123114007	Kalaiselvan S
7	422123114008	Kavibharathi A
8	422123114009	Madhan M
9	422123114010	Manivasagan T
10	422123114011	Muthazhagan N
11	422123114012	Saravanan M
12	422123114014	Vignesh S
13	422123114015	Yuvaraj B


CO-ORDINATOR


HOD

Head of the Department
Department of Mechanical Engineering
St. Anne's College of Engineering and Technology
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DEPARTMENT OF MECHANICAL ENGINEERING

Value Added Course Attendance Sheet

Department : MECHANICAL

PERIOD: 2024 - 2025

Title : TROUBLESHOOTING AND MAINTENANCE OF BS-4 IC ENGINE

Date: 03.03.2025 TO 07.03.2025

S.No	Register No.	Name	03.03.2025		04.03.2025		05.03.2025		06.03.2025		07.03.2025	
1	422123114001	Adhimani A	Adhimani	Adhimani	Adhimani	Adhimani	Adhimani	Adhimani	Adhimani	Adhimani	Adhimani	Adhimani
2	422123114002	Ajanthan S	Ajanthan	Ajanthan	Ajanthan	Ajanthan	Ajanthan	Ajanthan	Ajanthan	Ajanthan	Ajanthan	Ajanthan
3	422123114004	Aravind A	Ar	Ar	Ar	Ar	Ar	Ar	Ar	Ar	Ar	Ar
4	422123114005	Edishon Kumar B	Edishon	Edishon	Edishon	Edishon	Edishon	Edishon	Edishon	Edishon	Edishon	Edishon
5	422123114006	Harish R	Harish	Harish	Harish	Harish	Harish	Harish	Harish	Harish	Harish	Harish
6	422123114007	Kalaiselvan S	Kalaiselvan	Kalaiselvan	Kalaiselvan	Kalaiselvan	Kalaiselvan	Kalaiselvan	Kalaiselvan	Kalaiselvan	Kalaiselvan	Kalaiselvan
7	422123114008	Kavibharathi A	Ka	Ka	Ka	Ka	Ka	Ka	Ka	Ka	Ka	Ka
8	422123114009	Madhan M	Madhan	Madhan	AD	AD	Madhan	Madhan	AD	AD	Madhan	Madhan
9	422123114010	Manivasagan T	Man	Man	Man	Man	Man	Man	Man	Man	AD	AD
10	422123114011	Muthazhagan N	AD	AD	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu	AD	AD
11	422123114012	Saravanan M	San	San	San	San	San	San	San	San	San	San
12	422123114014	Vignesh S	Vignesh	Vignesh	Vignesh	Vignesh	Vignesh	Vignesh	Vignesh	Vignesh	Vignesh	Vignesh
13	422123114015	Yuvaraj B	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	AD	AD	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj


EVENT COORDINATOR


HOD
Head of the Department
Department of Mechanical Engineering
St. Anne's College of Engineering and Technology



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DEPARTMENT OF MECHANICAL ENGINEERING

**VALUE ADDED COURSE ON TROUBLESHOOTING AND MAINTENANCE
OF BS-4 IC ENGINE**

ASSESSMENT MARKS

DEPT: MECHANICAL

DATE: 3.03.2025 to 7.03.2025

S.NO	REGISTER. NO	STUDENT NAME	MARKS
1	422123114001	Adhimani A	85
2	422123114002	Ajanthan S	88
3	422123114004	Aravind A	94
4	422123114005	Edishon Kumar B	91
5	422123114006	Harish R	90
6	422123114007	Kalaiselvan S	86
7	422123114008	Kavibharathi A	80
8	422123114009	Madhan M	95
9	422123114010	Manivasagan T	83
10	422123114011	Muthazhagan N	93
11	422123114012	Saravanan M	84
12	422123114014	Vignesh S	85
13	422123114015	Yuvaraj B	80


CO-ORDINATOR


HOD

Head of the Department
Department of Mechanical Engineering
St. Anne's College of Engineering and Technology
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FEEDBACK ON VALUE ADDED COURSE

Department: MECHANICAL

Period: 2023-2027

Date: 3.03.25 to 7.03.25

Title: Troubleshooting and Maintenance of BS-4 IC Engine

Q.No	Question	Student Count	Credit By Category					Total Credit	Credit Secured	Percentage
			5	4	3	2	1			
1	Course plan	13	5	8	1	0	0	70	60	86%
2	Training duration	13	5	9	0	0	0	70	61	87%
3	Interactive approach	13	5	6	3	0	0	70	58	83%
4	Mode of presentation	13	7	7	0	0	0	70	63	90%
5	The course material handed out was adequate	13	6	7	1	0	0	70	61	87%
6	Usage of teaching aids and ICT in the class by faculty to facilitate teaching	13	6	7	1	0	0	70	61	87%
7	The course exposed you to new knowledge and practices	13	6	7	1	0	0	70	61	87%
8	Were objectives of the course clear to you?	13	7	6	1	0	0	70	62	89%
9	The course contents met with your expectations	13	4	8	2	0	0	70	58	83%
10	How would you rate the overall course content?	13	9	5	0	0	0	70	65	93%

PREPARED BY

VERIFIED BY

Head of the Department
Department of Mechanical Engineering
St. Anne's College of Engineering and Technology
ANGUCHETTYPALAYAM, PANRUTI - 607 106

APPROVED BY
Dr. R. AROKIADASS, M.E., Ph.D.,
Principal,
St. Anne's College of Engineering & Technology,
ANGUCHETTYPALAYAM,



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DEPARTMENT OF MECHANICAL ENGINEERING

VALUE ADDED COURSE REPORT ON TROUBLESHOOTING AND MAINTENANCE OF BS-4 I.C ENGINE

The Department of mechanical Engineering conducted a Value-Added Course on “troubleshooting and maintenance of BS-4 I.C engine” for the benefit of Second Year mechanical students. The course is scheduled from 03.03.25 to 07.03.25. The following faculty members were handled the course.

S.NO	Name of the Faculty	Designation
1	Mr.T.Elangovan	Assistant Professor
2	Sr.A.Josephinemarry	Assistant Professor

This value-added course focuses on understanding the fundamentals of internal combustion engine, which is crucial for mechanical engineering field. The value-added courses cover the following topics

1. Introduction

Assembling and dismantling a two-wheeler four-stroke internal combustion (IC) engine involves intricate steps and requires proper knowledge of engine components and procedures. These engines are commonly used in motorcycles, scooters, and other two-wheeled vehicles due to their efficiency and reliability. The four-stroke engine operates through four distinct phases—intake, compression, power, and exhaust—which occur during two complete rotations of the crankshaft.

This report covers the process of both assembling and dismantling the engine, which requires technical skills, appropriate tools, and a systematic approach to avoid damage to any components.

2. Tools and Equipment Required

- **Basic Hand Tools:**
- **Specialized Tools:**
- **Lubricants:**
- **Cleaning Materials:**
- **Safety Gear:**

3. Disassembly Process of a Four-Stroke IC Engine

The dismantling of a four-stroke IC engine typically follows these steps:

1. Preparation:



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- Place the vehicle on a stable work surface, like a motorcycle lift.
- Disconnect the battery to avoid electrical shocks.
- Drain the engine oil, coolant (if applicable), and fuel.

2. Remove External Components:

- Remove the engine covers (side covers, valve cover, and timing cover) using appropriate tools.
- Detach the carburetor or fuel injector assembly.
- Disconnect wiring harnesses and sensors attached to the engine.
- Remove exhaust manifold and any other peripheral components (e.g., air filters, spark plug wires).

3. Separate the Engine from the Frame:

- Using a lift or hoist, carefully detach the engine from the motorcycle frame.
- Ensure to remove bolts and fasteners that secure the engine.

Dismantle the Engine: Begin with the removal of the cylinder head by unbolting the head bolts in a crisscross pattern.

- Remove the camshaft, rocker arms, and valve springs.
- Disassemble the timing chain or timing belt.
- Remove the cylinder from the crankcase by unbolting the mounting bolts.
- Extract the piston and connecting rods carefully.
- Finally, remove the crankshaft by taking out the main bearing bolts.

4. Inspect the Components:

- After dismantling, inspect all parts for wear, cracks, or other damage. This includes pistons, cylinder walls, crankshaft, bearings, valves, and timing gears.
- Measure the critical dimensions (e.g., bore size, crankshaft run-out) using tools like micrometers or calipers.

5. Cleaning:

- Clean all reusable parts with solvent or parts cleaner, removing carbon build-up, oil, and dirt.

4. Reassembly Process of a Four-Stroke IC Engine

Reassembling a four-stroke engine follows a precise sequence to ensure that everything works properly:



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1. Preparation for Assembly:

- Ensure all parts are cleaned and inspected.
- Gather the necessary gaskets, seals, and new components (such as piston rings, bearings, etc.).

2. Install the Crankshaft:

- Lubricate the crankshaft journals and install it into the crankcase.
- Secure it with main bearings and bolts as specified by the manufacturer.

3. Install the Pistons and Connecting Rods:

- Lubricate the piston rings and install them on the pistons.
- Carefully slide the pistons into the cylinder bores, ensuring they are properly aligned with the connecting rods.
- Attach the connecting rods to the crankshaft and tighten the connecting rod bolts.

4. Install the Cylinder and Cylinder Head:

- Place the cylinder onto the crankcase, making sure the piston moves freely within the bore.
- Install the cylinder head with new gaskets, ensuring proper alignment.
- Tighten the cylinder head bolts in a crisscross pattern to the correct torque specifications.

5. Reinstall Valve train Components:

- Install the camshaft, ensuring it aligns with the timing marks.
- Place the valve springs, rocker arms, and valves in their respective positions.
- Set the valve clearance or lash (if applicable).

6. Timing and Valve Train Adjustment:

- Install and adjust the timing chain or timing belt to the correct tension and alignment.
- Check valve timing according to the manufacturer's specifications.

7. Install External Components:

- Reinstall the camshaft cover, timing cover, and other external components like the carburetor or fuel injection system.
- Attach wiring harnesses, sensors, and exhaust manifold.

8. Check for Proper Functionality:



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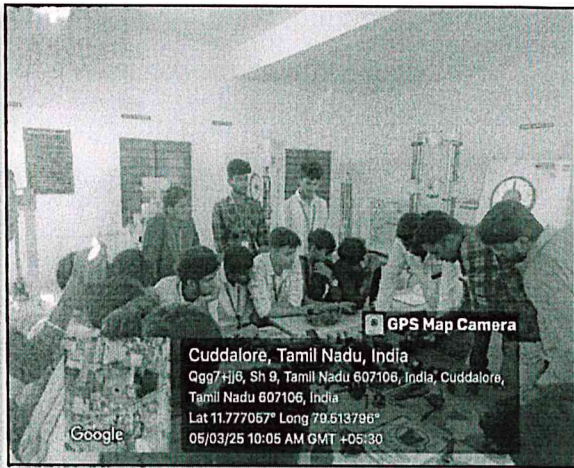
- Manually rotate the crankshaft and check for smooth operation without interference.
- Ensure all fasteners are torqued to the specified settings.

9. Oil and Fluid Replacement:

- Add fresh engine oil, coolant, and any other necessary fluids.

10. Final Inspection and Test Run:

- Inspect for any leaks or unusual noises.
- Start the engine and monitor for proper operation, ensuring all systems (fuel, electrical, exhaust) are functioning.




5. Conclusion

Assembling and disassembling a two-wheeler four-stroke internal combustion engine requires technical knowledge and attention to detail. The process involves understanding the engine's components, tools, and procedures to ensure a proper rebuild or repair. Adherence to manufacturer guidelines, proper safety measures, and clean assembly practices are critical to ensure the longevity and performance of the engine. Regular maintenance after assembly ensures smooth engine performance over time. There are 13 students were attended the course.


COORDINATOR


HOD

Head of the Department
Department of Mechanical Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(Tk) Cuddalore-(Dist.), Pin: 607 106


PRINCIPAL
Dr. R. AROKIADASS, M.E., Ph.D.,
Principal,
St. Anne's College of Engineering & Technology,
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 110.



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Mr. K. Shanmuga Elango
HOD/ MECH
St. Anne's CET, Panruti

Dr. R. Arokia Dass
Principal
St. Anne's CET, Panruti



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II YEAR - Department Of Mechanical Engineering

St. Anne's College of Engineering and Technology

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St. Anne's CET, Panruti

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HOD/ MECH
St. Anne's CET, Panruti

Dr. R. Arokia Dass
Principal
St. Anne's CET, Panruti