

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Attur Main Road, Mettupatti, Salem - 636 111, Tamilnadu, India
Phone: 0427 - 2211212, +91 9865440414
E-Mail: principal@ganeshenggcollege.org www.ganeshenggcollege.org

GCE/CIVIL /2023-2024/SP11

DATE: 28.06.2023

CIRCULAR

The Civil Department has decided to conduct a Value added Course on "SP10311 – STAAD PRO" For the IInd & IVth year Civil Engineering students from 16.07.2023 to 27.08.2023 on every Sundays. Interested students can enroll their name to the program coordinator Dr. T. Gobi, Professor on or before 6.7.2023.

Venue: Conference Hall

Copy to:

1. Principal's Office

2. IQAC

3. Department file

PRINCIPAL
Ganesh College of Engineering,
Attur Main Road, Mettupatti,

SALEM-636 111







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ACADEMIC YEAR- 2023-2024 (ODD SEM)

CERTIFICATE COURSE

SP10311 - STAAD PRO

SYLLABUS

UNIT-1

Introduction to STRUCTURAL ENGINEERING - Introduction to STAAD.Pro.V8i - Getting familiar with STAAD window - Model generation using STAAD editor

UNIT-2

Introduction to Snap Node/Beam Editor - Model generation using Node/Beam Editor - Introduction to Translational Repeat -Model generation using Translational Repeat

UNIT-3

Assigning Properties - Assigning Supports - Assigning Loads - Structure Analysis

UNIT-4

Simply Supported Beam - Analysis of Framed Structure - Applying Floor Loads

PROGRAM COORDINATOR





HOD



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ACADEMIC YEAR- 2023-2024

SP10311-STAAD PRO

PROGRAM REPORT

Ganesh college of Engineering Department of Civil Engineering sponsored a value added course titled "SP10311- STAAD PRO" on the first day of the course, Prof.T.Gobi, HOD, Department of Civil Engineering, gave the welcome talk at 10A.M. It took place in our college grounds over the period of 30 hours, on Sundays, from 16.07.2023 to 27.08.2023. Mr.A.Sathish, a trainer from Surya Builders, Chennai, taught the students about design and how to construct models in the lab. This certificate programme follows a set of guidelines that define the beginning and end of the training period. The course Assessment was performed on September 19, 2023, utilizing a questionnaire that comprises 25 questions about the course. Around 09 Second, Final -Year civil engineering students finished the course satisfactorily. The students were appreciated with the course completion certificate. At the end of this course the students were able to create a prototype model in all types of civil component project.



PROGRAM COORDINATOR

HOD

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ACADEMIC YEAR- 2023-2024 (ODD SEM)

CERTIFICATE COURSE

SP10311 – STAAD PRO	
FEEDBACK QUESTIONAIRE (PLEASE TICK THE APPROPE	RIATE ANSWER)
Name of the Participant: M. Karibhara Hi	Class: IV - year.
1. Was the presentation clear and relevant to the topic?	
2. Was the session well organized?	
3. Was the course material provided sufficient and relevant?	
4. Was the expert member capable of delivering the contents Clearly?	
5. Would you like to attend similar type of course again in the future?	
COMMENTS: Strad Dro is on exement Siffware for for Industry.	beginans asmoura
SIGNATURE OF THE PARTICIPANT M. Contact Conta	



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CERTIFICATE COURSE ON STAAD PRO

CERTIFICATECOURSE: STUDENT PARTICIPATION LIST

S. No	Name of the Student	Reg. Number	Remarks
1.	KAVIBHARATHI M	620620103001	M. Kung
2.	RAHUL K	620620103002	K. Pur.
3.	DINESHKUMAR T	620620103301	T. Dinesh Kunah
4.	JEEVANANTH A	620620103302	A. Formanh,
5.	NESAMANI M	620620103303	M, wegan,
6.	ANANTH T	620622103001	J. Ant.
7.	ASHIQUEBASHA K	620622103002	K, All
8.	BHAVATHARANI P	620622103003	P. Bhil.
9.	TAI LAPANG	620622103301	Tany.

PROGRAM COORDINATOR

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PRINCIPAL

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ACADEMIC YEAR- 2023-2024 (ODD SEM)

SP10311 - STAAD PRO

COURSE OUTCOME

1. Software features

Students learn how to use the software's various features, including modeling, analysis, and design optimization tools.

2. Structural analysis principles

Students learn the principles and theories of structural analysis, such as load generation, boundary conditions, and FEA.

3. Design codes and standards

Students learn about relevant design codes and standards in structural engineering and design.

4. Structural analysis and design

Students learn how to perform structural analysis and design for various types of buildings, including steel and concrete structures.

5. Software functionalities

Students learn how to use the software's various functionalities, such as model generation and editing, loading analysis, concrete designing, and more.

6. Graphic model generation

Students learn how to create 2D and 3D graphic models.

7. Printer plots

Students learn how to take presentation-quality printer plots of geometry and results.

8. Plate/shell elements

Students learn how to perform accurate plate/shell elements.

9. Code checks

Students learn how to perform code checks, member selection, and optimized member selection.

Program Coordinator

HOD







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CERTIFICATE COURSE - ACADEMIC YEAR 2023-2024 (ODD SEM)

SP10311 –STAAD PRO STUDENT ATTENDANCE PARTICULARS COURSE TIMING - 10 AM TO 4 PM

S. NO	NAME OF THE STUDENT	REG. NUMBER	16-07-23	23-07-23	30-07-23	06-08-23	13-08-24	REMARKS
1	KAVIBHARATHI M	620620103001	P	P	P	P	P	P
_ 2	RAHUL K	620620103002	P	P	P	P	P	Р
3	DINESHKUMAR T	620620103301	P	Р	P	P	Р	Р
4	JEEVANANTH A	620620103302	P	Р	P	P	Р	P
5	NESAMANI M	620620103303	P	Р	P	P	P	P
6	ANANTH T	620622103001	P	P	P	P	P	P
7	ASHIQUEBASHA K	620622103002	P	P	P	P	P	P
8	BHAVATHARANI P	620622103003	P	P	P	P	P	P
9	TAI LAPANG	620622103301	P	P	P	P	P	P
	COURSE COORDINA	ATOR	J.W	J. W	T.W	T.hl	7.6	J. hl

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE COURSE ON"STAAD PRO"



This is to certify that Dr./Mr./Ms	M.KAVIBHARATHI	has successfully completed the
"CERTIFICATE COURSE SP10311	-STAAD PRO" organized by Depart	tment of CIVIL ENGINEERING, Ganesh
College Of Engineering ,Salem durin	g the Academic Year 2023-2024.	

Organizing Secretary



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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE COURSE ON"STAAD PRO"

Certificate

This is to certify that Dr./Mr./Ms	K.RAHUL	has successfully completed the "CERTIFICATE
COURSE SP10311 –STAAD PRO"	organized by Departm	ent of CIVIL ENGINEERING, Ganesh College Of
Engineering ,Salem during the Acade	mic Year 2023-2024.	

Organizing Secretary



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GCE/CIVIL /2023-2024/TK12

DATE: 02.02.2024

CIRCULAR

The Civil Department has decided to conduct a Certificate Course on "TK10312 - TEKLA" For the II^{nd.} & IVth year Civil Engineering students from 18.02.2024 to 17.03.2024 on every Sundays. Interested students can enroll their name to the program coordinator Dr. T. Gobi, Professor on or before 12.02.2024.

Venue: Conference Hall

Copy to:

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3. Department file

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ACADEMIC YEAR- 2023-2024 (EVEN SEM)

CERTIFICATE COURSE

TK10312 - TEKLA

SYLLABUS

UNIT 1

Introduction To BIM - Getting Started Tekla Structures - Overview Of Structures Modelling - Create New Models - Create Gridlines And Creating Views - Modify And Delete Grids - Create Radial Grids - Create Model Views - Save View & Modify Views - Change The Color Settings

UNIT 2

Create Reinforcements, Modify, Create Planes And Points - Predefined Parametric Profiles - Modelling Concrete Structural Members - Editing Structural Members And Connections

UNIT 3

Drawing And Reports - Report Templates, Reports For Rbars - Create Rebar Drawing Layout - Create GA Drawing - Single Part Drawing Import And Export Models(3d Drawing/Dxf,3d Dgn, Etc.,)

UNIT 4

Analyse And Design - Export Rebar Detailing - Generate Structural Drawings - Foundation Types - Load Application - Foundation Design - Structural Designer Introduction - Transfer Model To Tsd - Important Cad Layout - Loading And Design Codes.

PROGRAM COORDINATOR

HOD







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ACADEMIC YEAR- 2023-2024 (EVEN SEM)

CERTIFICATE COURSE

TK10312 - TEKLA		
FEEDBACK QUESTIONAIRE (PLEASE TICK THE APPROPRI	ATE A	NSWER)
Name of the Participant:	Class:	11-year
1. Was the presentation clear and relevant to the topic?		
2. Was the session well organized?		
3. Was the course material provided sufficient and relevant?		
4. Was the expert member capable of delivering the contents Clearly?		
5. Would you like to attend similar type of course again in the future?		
Testing is done using tekna struct packages and supporting materials & the features.	ture	es test

SIGNATURE OF THE PARTICIPANT







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ACADEMIC YEAR- 2023-2024

TK10312 - TEKLA

PROGRAM REPORT

Ganesh college of Engineering Department of Civil Engineering sponsored a value added course titled "TK10312 - TEKLA" on the first day of the course, Prof.T.Gobi, HOD, Department of Civil Engineering, gave the welcome talk at 10A.M. It took place in our college grounds over the period of 30 hours, on Sundays, from 18.02.2024 to 17.03.2024. Mr. A. Sathish, a trainer from Surya Builders, Chennai, taught the students about design and how to construct models in the lab. This certificate programme follows a set of guidelines that define the beginning and end of the training period. The course Assessment was performed on April 19, 2024, utilizing a questionnaire that comprises 25 questions about the course. Around 09 Second & Final –Year civil engineering students finished the course satisfactorily. The students were appreciated with the course completion certificate. At the end of this course the students were able to create a prototype model in all types of civil component project.



PROGRAM COORDINATOR



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HOD



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CERTIFICATE COURSE ON TEKLA

CERTIFICATE COURSE: STUDENT PARTICIPATION LIST

S. No	Name of the Student	Reg. Number	Remarks
1.	KAVIBHARATHI M	620620103001	M. Jean,
2.	RAHUL K	620620103002	K. Lui
3.	DINESHKUMAR T	620620103301	F. plash reman
4.	JEEVANANTH A	620620103302	A. Ferent
5.	NESAMANI M	620620103303	or, refu.
6.	ANANTH T	620622103001	T. Anf.
7.	ASHIQUEBASHA K	620622103002	k Pary
8.	BHAVATHARANI P	620622103003	8. Phl.
9.	TAI LAPANG	620622103301	Taln.

PROGRAM COORDINATOR

PRINCIPAL

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ACADEMIC YEAR- 2023-2024 (EVEN SEM)

TK10312 - TEKLA

COURSE OUTCOME

- Model creation: Students learn to create 3D models of steel structures, civil construction, and more.
- Model analysis and design: Students learn to analyze and design models according to industry standards.
- 3. Project management: Students learn how to effectively manage projects.
- Collaboration: Students learn how to work more effectively with others on projects.
- Cost savings: Students learn how to reduce material waste and construction errors, which can result in project cost savings.
- 6. Professional growth: Students improve their technical skills, problem-solving abilities, and decision-making capabilities

Program Coordina

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CERTIFICATE COURSE – ACADEMIC YEAR 2023-2024 (EVEN SEM) TK10312- TEKLA

STUDENT ATTENDANCE PARTICULARS COURSE TIMING – 10 AM TO 4 PM

S. NO	NAME OF THE STUDENT	REG. NUMBER	20-08-17	27-08-17	03-09-17	10-09-17	17-09-17	REMARKS
1	KAVIBHARATHI M	620620103001	P	P	P	P	Р	P
2	RAHUL K	620620103002	P	P	P	P	P	P
3	DINESHKUMAR T	620620103301	P	P	P	P	Р	P
4	JEEVANANTH A	620620103302	P	P	P	P	P	P
5	NESAMANI M	620620103303	P	P	P	P	AB	P
6	ANANTH T	620622103001	P	P	P	P	P	P
7	ASHIQUEBASHA K	620622103002	P	P	P	P	Р	P
8	BHAVATHARANI P	620622103003	P	P	P	P	P	P
9	TAI LAPANG	620622103301	P	P	P	P	P	P
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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE COURSE ON"TEKLA"

Certificate

This is to certify that Dr./Mr./Ms	P.BHAVATHARANI	has successfully completed the
"CERTIFICATE COURSE TK10312	2 –TEKLA" organized by Departm	nent of CIVIL ENGINEERING, Ganesh College
Of Engineering ,Salem during the Aca	ademic Year 2023-2024.	

Organizing Secretary



Principal
PRINCIPAL
Ganesh College of Engineering.
Attur Main Road, Mettupatti,
SALEM-636 111



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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE COURSE ON"TEKLA"



This is to certify that Dr./Mr./Ms	T.DINESH KUMAR	has successfully completed the
"CERTIFICATE COURSE TK10312	2 -TEKLA" organized by Departm	ent of CIVIL ENGINEERING, Ganesh College
Of Engineering ,Salem during the Ac	ademic Year 2023-2024.	

Organizing Secretary



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GCE/CSE/STU/2023-2024/VAC01

Date: 09-02-2024

CIRCULAR

The Department has decided to conduct a certificate Course program on "(AI2401 – ARTIFICIAL INTELLIGENCE)" For Third year students from 25.02.2024to 31.03.2024 on every Sundays. Interested students can enroll their name to the program coordinator (Mrs.D.Latha) on or before 18.02.2024.

PRINCIPAL

Copy to:

- 1. Principal's office
- 2. IQAC
- 3. Department File

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SYLLABUS

SYLLABUS OF THE CERTIFICATE COURSE

MODULE 1:

Preparatory Sessions-Python & Linux

Python Basics, OOPS, Numpy, Pandas, Matplotlib, Seaborn, Linux installation, Linux Commands for File Handling and Data Extraction, etc.

MODULE 2:

Git

Intoduction to Git Version Control/Revision Control system. The types of VCS · 2. Getting Started with Git and Its Architecture.

MODULE 3

Python with Data Science

Building a solid foundation to explore the fields of web development, game development, data science & artificial intelligence. Become Industry 4.0 ready with this comprehensive Python course.

MODULE 4

Advanced Statistics

Statistical Methods: Definition and scope of Statistics, concepts of statistical population and sample. Data: quantitative and qualitative, attributes, variables, scales of measurement nominal, ordinal, interval and ratio. Presentation: tabular and graphical, including histogram and ogives, consistency and independence of data with special reference to attributes.

MODULE 5

Machine Learning & Prediction Algorithm

BASICS Learning Problems Perspectives and Issues Concept Learning Version Spaces and Candidate eEliminations – Inductive bias – Decision Tree learning – Representation – Algorithm – Heuristic Space Search

MODULE 6:

Data Science at Scale with PySpark

Data Science at Scale with PySpark. 5.1 Introduction to Big Data and Apache Spark. 5.2 Apache Spark framework and RDDs. 5.3 PySpark SQL and Data Science.

Program Coordinator





Hop



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ACADEMIC YEAR 2023-2024

COURSE SCHEDULE

AI2401 - ARTIFICIAL INTELLIGENCE

Date / Hour	_ 1	2	3	4		5	6
25-02-2024	Nump	asics, OOPS, y, Pandas, tplotlib	Linux installation, Linux Commands for File Handling and Data Extraction			Practical S	Session on AI
03-03-2024	2 20	of VCS · 2. Arted With Git chitecture.	V Contro	ction toGit ersion ol/Revision ol system	ΙΚ	Practical S	Session on AI
10-03-2024	foundation the field	ng a solid on to explore lds of web lopment,	data scien	evelopment, ce & artificial lligence.	LUNCH BREAK	Practical Session on AI	
17-03-2024	Definition	al Methods: and scope of tistics,	including and of	nd graphical, g histogram gives, and lence of data	rn	Practical Session on AI	
24-03-2024	Concep	ves and Issues of Learning on Spaces	Car	Spaces and Candidate liminations		Practical S	Session on AI
31-03-2024	0.000 MH 0000 0000 0000 0000	ence at Scale PySpark.	PySpark S Science.	SQL and Data		Practical S	Session on AI











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ACADEMIC YEAR - 2023-2024(ODDSEM)

CERTIFICATION COURSE

AI2401 - ARTIFICIAL INTELLIGENCE

FEEDBACK QUESTIONAIRE (PLEASE TICK THE APPROPRIATE ANSWER)

NAME OF THE PARTICIPANT:	DBUAUT. V	CLASS: III year
NAME OF THE PARTICIPANT:	DEVAKT. K	CLASS: 10 7

1. Was the presentation clear and relevant to the topic?

Yes/No

2. Was the session well organized?

Yes/.No

3. Was the course material provided sufficient and relevant?

Yes/No

4. Was the expert member capable of delivering the contents clearly?

Yes/No

5. Would you like to attend similar type of course again in the future?

Yes/No

Comments:

NILL

Signature of the Participant







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ACADEMIC YEAR 2023-2024(ODD SEM)

AI2401 – ARTIFICIAL INTELLIGENCE

PROGRAM REPORT

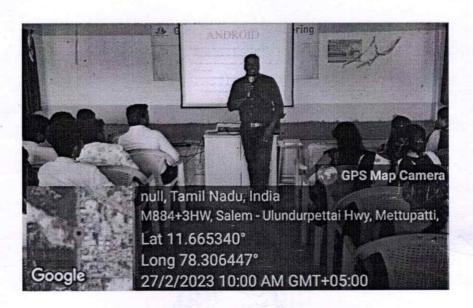
The Department of Computer Science and Engineering, Ganesh College of Engineering organized a Certificate Course on AI2401 – Artificial Intelligence.

The Course was inaugurated on 25.02.202410.00am. Mr.R.Sundaram, Head, Dept of CSE delivered the welcome address. It was conducted during the weekends from 25.02.2024to 31.03.2024 for the duration of 35 hours. This Programme was conducted by EG Technologies, Salem.

Mr. H. Ranjithkumar, started with introduction about Artificial Intelligence on 25.02.2024. The course Assessment was carried out on 31.03.2024(AN) which consists of 25 questions about the topic, discussed. Around 41 students of Third Year CSE successfully completed the course. The students were appreciated with the course completion certificate.

The feedback was collected from the participants. Mr.R.Sundaram, HOD, Dept of CSE delivered the vote of thanks at the end of the session.

The students are excited in doing Artificial Intelligence after the successful completion of this course.



Program Coordinator









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ACADEMIC YEAR 2023-2024(ODD SEM)

AI2401 - ARTIFICIAL INTELLIGENCE

COURSE OUTCOMES

CO1 Formulate problems precisely, solve the problems, apply formal proof techniques, and explain the reasoning clearly.

CO2 Apply appropriate mathematical concepts and skills to solve problems in both familiar and unfamiliar situations including those in real-life contexts.

CO3 Design and analyze real world engineering problems by applying set theory, propositional logic and to construct proofs using mathematical induction.

PROGRAM COORDINATOR

HODWY







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CERTIFICATE COURSE - ACADEMIC YEAR – 2023-2024(EVEN SEM) AI2401- ARTIFICIAL INTELLIGENCE STUDENT ATTENDANCE PARTICULARS

S.NO	REG. NUMBER	NAME OF THE STUDENT	25.02. 2024	03.03. 2024	10.03. 2024	17.03. 2024	24.03. 2024	31.03. 2024	Remarks
1	620621104003	ANJALI K	P	P	P	P	P	P	
2	620621104004	ARUN C	P	P	' P	P	P	P	
3	620621104005	BADRIPRASATH K	P	AB	P	, P	AB	P	
4	620621104008	DEVA M	P	P	P	P	P	P	
5	620621104009	DEVAKI K	P	P	P	P	P	P	
6	620621104011	DHIVYA G	P	P	P	P	Р	P	
7	620621104012	GANAPATHI P	P	P	P	P	P.	P	
8	620621104013	INDHIRA R	P	P	₹ P	AB	P	P	
9	620621104014	INDHUMATHI P	P	P	P	, P	P	P	i Rana
10	620621104015	JOTHIKA M	P	P	P	P	P	P	
11	620621104016	KARTHIKA K	P	P	P	P	P	P	
12	620621104017	KOVENDAN M	P	P	P	P	P	P	
13	620621104020	MUGESWARAN P	P	P	P	P	P	P	
14	620621104022	NANDHINI M	P	P	P	P	P	P	
15	620621104023	NARAYANAN K	P	P	P	, P	Р	P	
16	620621104024	NAVEENKUMAR S	P	P	P	P	P	P	
17	620621104025	NIRESHKUMAR V	P	P	P	P	P	Р	181
18	620621104026	PADHMINI P	P	AB .	P	P	AB	Р	#-
19	620621104029	POOVIZHI V	P	Р	Р	P	P	Р	
20	620621104030	PRAVEENA M	P	P	P	P	P	Р	
21	620621104031	RAJKUMAR G	P	P	P	. P	P	P	
22	620621104033	REENA A	P	P	P	P.	P	P	
23	620621104035	SAKTHIKUMAR A	P	P	P	Р	P	Р	
24	620621104037	SANTHOSH S	Р	Р	AB	Р	AB	Р	
25	620621104039	SARANYA R	P	P	P	Р	Р	Р	
26	628621 104040	SARAVANAN N	P	P	P	P	P	P	
27	62,6621104041	SATHISH KUMAR S	P	P	P	. Р	P	P	
28	620621104042	HALINI J	Р	E	P	Р	Р .	Р	

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41	620621104302	VIDHYASAGAR K	P	P	P	, P	P	P	
40		SASIKANNAN S	P	AB	[†] P	P	P	P	
39	620621104060	VINAYAN B	P	P	P	P	P	P	
38	620621104058	VIJAY K	P	P	P	P	P	P	
37	620621104056	VAIDHEGI S	P	P	P	P	P	P	
36		THATCHAYINI S	P	P	P	P	P	P	
35	620621104051		P	P	P	_A P	P	P	
34		SURENDHAR P	P	P	¹ § P	P	AB	P	
33	620621104049		P	P	P	P	P	P	
32		SUDHAKAR R	P	P	P	P	P	P	
31	620621104045	SNEHA S	P	P	. P	P	P	P	
30		SIVASAKTHI R	P	P	P	P	P	P	
29	620621104043	SIVAKUMAR R	P	AB	[‡] P	, P	P	P	



PRINCIPAL

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Ganesh College of Engineering,
Attur Main Road, Mettupatti,
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(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai) Attur Main Road, Mettupatti, Salem - 636 111, Tamilnadu, India Phone: 0427 - 2211212, +91 9865440414
E-Mail: principal@ganeshenggcollege.org www.gane

www.ganeshenggcollege.org

CERTIFICATE COURSE - ACADEMIC YEAR - 2023-2024(EVEN SEM) **AI2401- ARTIFICIAL INTELLIGENCE** STUDENTS PARTIPATION LIST

S.NO	REG. NUMBER	NAME OF THE STUDENT	SIGNATURE
1	620621104003	ANJALI K	A High
2	620621104004	ARUN C	Amer C
3	620621104005	BADRIPRASATH K	Barron, k.
4	620621104008	DEVA M	- Mai M
5	620621104009	DEVAKI K	Devot
6	620621104011	DHIVYA G	C1- Philes
7	620621104012	GANAPATHI P	Brank P
8	620621104013	INDHIRA R	Prodince P
9	620621104014	INDHUMATHI P	Enallymath : P
10	620621104015	JOTHIKA M	10 No.
11	620621104016	KARTHIKA K	Rond Rolla W
12	620621104017	KOVENDAN M	Loverdam
13	620621104020	MUGESWARAN P	Muanu, P
14	620621104022	NANDHINI M	82nh
15	620621104023	NARAYANAN K	Margalla b
16	620621104024	NAVEENKUMAR S	a a venxumas
17	620621104025	NIRESHKUMAR V	Driegh keennan
18	620621104026	PADHMINI P	Padhimin
19	620621104029	POOVIZHI V	Dourn's V
20	620621104030	PRAVEENA M	Private no MI
21	620621104031	RAJKUMAR G	Rajkumar
22	620621104033	REENA A	Down
23	620621104035	SAKTHIKUMAR A	A Ruthokumen
24	620621104037	SANTHOSH S	J. Santhost
25	620621104039	SARANYA R	Saine R
26	11 21	SARAVANAX	Surrans. N.
27	620621104041	SATHISH KUMAR SILL	Sathihamy
28	620621104042	9/ 03/	delin +

29	620621104043	SIVAKUMAR R	Sivakun, R
30	620621104044	SIVASAKTHI R	Singebooki. 2
31	620621104045	SNEHA S	3 · Shepa
32	620621104048	SUDHAKAR R	Suellayray P
33	620621104049	SUJATHA P	Tayatha D
34	620621104050	SURENDHAR P	Suin. P
35	620621104051	SURIYA B	Sugar B.
36	620621104054	THATCHAYINI S	SiThata
37	620621104056	VAIDHEGI S	S. Valahogy
38	620621104058	VIJAY K	Wray-b
39	620621104060	VINAYAN B	Virouton B
40	620621104301	SASIKANNAN S	Sall Vanner
41	620621104302	VIDHYASAGAR K	Vidhey, K

Principal

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Date: 12-09-2023

GCE/CSE/STU/2023-2024/VAC01

CIRCULAR

The Department has decided to conduct a certificate Course program on "WA803-WEB APPLICATIONS" For second year students from 01.10.2023to 05.11.2023 on every Sundays. Interested students can enroll their name to the program coordinator Mrs.V.SOWMIYA on or before 21.09.2023.

Copy to:

- 1. Principal's office
- 2. IQAC
- 3. Department File

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SYLLABUS

SYLLABUS OF THE CERTIFICATE COURSE

MODULE 1:

Basics of Networking and Web Architecture

Basic network concepts, Internet, channel, Bandwidth, Data Transfer Rate, Protocols: HTTP, FTP, TCP/IP, VoIP, Types of network: PAN, LAN, MAN, WAN, Web Architecture: Types of architecture- Client Server Model, Three Tier Model, Service Oriented Architectures.

MODULE 2:

WEBSITE DEVELOPMENT USING HTML AND CSS

Concept of website, its need and purpose, Languages used for website development, HTML: basic tags, formatting tags, Adding images, Lists, Internal and External Linking ,Frames, Forms, Basics of Cascading Style sheets, Overriding, Comments, color, background, Font, images

MODULE 3

MULTIMEDIA DESIGN-GIMP

Gimp as a graphics tool Gimp interface, color modes, tools, transform, color tools, foreground, background Creating and editing images Filter tools like Blur, Layers: creating, rearranging and masking layers.

MODULE 4

INTRODUCTION TO DYNAMIC WEBSITES USING JAVASCRIPT

Limitations of static websites, Dynamic websites Features of JavaScript, extension of JavaScript Syntax of JavaScript, data types, operators, variables, Document object Creating interactive web pages using JavaScript Selection, terative statement: for, for/in, while, do while break and continue**MODULE 5**

Server-Side Development

Designing and implementing the server logic, database management, user authentication, and business logic. Common programming languages for server-side development include Python, Ruby, Java, PHP, and Node.js

MODULE 6:

Frameworks and Libraries

Developers use frameworks and libraries to streamline the development process, ensure best practices. These tools provide pre-built components, structures, and patterns for routing, authentication, and data handling tasks.

Program Coordinator



HOD



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ACADEMIC YEAR 2023-2024

COURSE SCHEDULE

WA803- WEB APPLICATIONS

Date / Hour	1	2	3	4		5	6	
01-10- 2023	and the second s	tworking and chitecture	Bandwidth, Data Tr	epts, Internet, channel, ansfer Rate, Protocols: TCP/IP, VoIP,		And the second s	Session on BC	
08-10- 2023		evelopment L and CCS.	External Linking ,Fr	e,HTML, Internal and ames, Forms, Basics of Style sheets,	EAK		Session on BC	
15-10- 2023	Multimedia design GIMP		Gimp as a graphic color modes, tools, fore	CH BRE	Practical Session on BC			
22-10- 2023		to Dynamic ng java script		ic websites, Dynamic res of JavaScript,	TON	Practical Session on BC		
29-11- 2023	Server-Side	Development	logic, database	blementing the server management, user ntication			Session on BC	
05-11- 2023	Frameworks	and Libraries	streamline the devel	neworks and libraries to opment process, ensure practices.			Session on BC	

Program Coordinator

HOD







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ACADEMIC YEAR - 2023-2024(EVEN SEM)

CERTIFICATION COURSE

WA803- WEB APPLICATIONS

FEEDBACK QUESTIONAIRE (PLEASE TICK THE APPROPRIATE ANSWER)

NAME OF THE PARTICIPANT: Atash. P CLASS	: IT year
1. Was the presentation clear and relevant to the topic?	
Yes/No	
2. Was the session well organized?	
3. Was the course material provided sufficient and relevant?	
Yes/No	
4. Was the expert member capable of delivering the contents clearly?	

5. Would you like to attend similar type of course again in the future?

Yes/No

Yes/No

Comments:

Very Useful Course Signature of the Participant







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ACADEMIC YEAR 2023-2024(EVEN SEM)

WA803- WEB APPLICATIONS

PROGRAM REPORT

The Department of Computer science and Engineering, Ganesh College of Engineering organized a Certificate Course on "WA803- WEB APPLICATIONS" The Course was inaugurated on 01.10.2023 10.00am. Mr.R.Sundram, Head, Dept of CSE delivered the welcome address. It was conducted during the weekends from 01.10.2023 to 05.11.2023 for the duration of 35 hours.

Mr. V.SANJEEV started with introduction about WA803- WEB APPLICATIONS on 01.10.2023. The course Assessment was carried out on 05.11.2023(AN) which consists of 25 questions about the topic discussed. Around 45 students of Second Year CSE successfully completed the course. The students were appreciated with the course completion certificate.

The feedback was collected from the participants. Mr.R.Sundram, HOD, Dept of CSE delivered the vote of thanks at the end of the session.

The students are excited in doing WA803- WEB APPLICATIONS after the successful completion of this course.



Program Coordinator









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ACADEMIC YEAR 2023-2024(EVEN SEM)

WEB APPLICATIONS

COURSE OUTCOMES

Course description and objectives:

On completion of this course, a student will be familiar with client server architecture and able to develop a web application using java technologies. Students will gain the skills and project-based experience needed for entry into web application and development careers.

COURSE OUTCOMES

- 1. Students are able to develop a dynamic webpage by the use of java script and DHTML
- 2. Students will be able to write a well formed / valid XML document
- 3. Students will be able to connect a java program to a DBMS and perform insert, update and delete operations on DBMS table.
- 4. Students will be able to write a server side java application called Servlet to catch form data sent from client, process it and store it on database.
- 5. Students will be able to write a server side java application called JSP to catch form data sent from client and store it on database.

Program Coordinator



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HOPP



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CERTIFICATE COURSE - ACADEMIC YEAR - 2023-2024(EYEN SEM)

WA803 - WEB APPLICATION STUDENT ATTENDANCE PARTICULARS

S.NO	REG. NUMBER	NAME OF THE STUDENT	01.10.2023	08.10.2023	15.10.2023	22.10.2023	29.10.2023	05.11.2023	Remarks
1	620622104001	ABINAYA V	P	P	P	P	P	P	
2	620622104003	AKASH P	P	P	P * 5	P	P	Р	
3	620622104004	AMUTHESWARAN S	P	AB	P	P	AB	P	
4	620622104006	ARTHI K	P	P	P	P	P	P	
5 "	620622104008	AVINASH S	P	P	P	P	P	P	
6	620622104010	BALRAJ P	P	P	P	P	P	P	
7	620622104011	BARATHVAJ G	P	P	P	P	P	P	
8	620622104012	BHARATH J	P	P	Pi	AB	P	P	
9	620622104013	GOKULRAJ M	P	P	Р '	P	P	P	
10	620622104015	JANANI M	P	P	P	P	P	P	
11	620622104016	JAYANDHI S	P	P	P	P	P	P	
12	620622104017	JOY SAMUEL B	P	P	P	P	P	P	
13	620622104018	KARTHICK M	P	P	P 3	P	P	P	
14	620622104020	KARTHIKEYAN V	P	P	P	P	P	P	
15	620622104021	KAVINESH H	P	P	P	P	P	P	į.
16	620622104022	KRISHNAN R	P	Р	P	P	P	Р	
17 .	620622104023	MANIGANDAN B	P	P	P	P	P	P	
18	620622104024	MANIMEGALAI S	P	AB	P	P	AB	Р	
19	620622104026	NARMATHA M	P	P	P	P	P	P	
20	620622104027	NAVEEN K	P	P	Р ,	P	P	P	
21	620622104028	NEEDHU M	P	P	P	P	P	P	
22	620622104029	NETHAJI S	P	P	P	P	Р	P	
23	620622104030	NISHA M	P	P	P	P	P	P	
24	620622104032	POOVARASAN S	P	P	AB	P	AB	P	
25	620622104033	PRAVEEN M	P	P	P	Р	P	P	
26	620622104035	RAJNAVEEN J	P	P	Р	Р	Р	P	
27	620622104036	RENUGA S	P	Р	P	Р	Р	Р	
28	620622104039	SANJAI S	P	P	Р	P	Р	P	1
29	620622104040	SANSAY K	P	AB	P	P	P	P	
30		SARATHKUMAR S	P of	n.P.	P	P	P	P	
31	620622104042	SATHISH KUMAR M	S/P	184	Ρ,	P	P	P	
32	620622104043	F 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PASE 636	M 11 10	P	P	P	P	
33		SETHUPATHY C	13/00	PA	P '	P	P	P	

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15	620622104060	VISHWA D	P	P	P	P	P	P	
14		VIGNESHWARAN C	P	P	P	P	P	P	
43		VETRIVEL K P	P	P	Ρ,	P	P	AB	
42	620622104055	VASANTH S	P	P	P	P	P	P	
41 .	620622104054	VASANTH R	P	P	P	P	P	P	
40	620622104052		P	AB	P	b P	P	P	
39	620622104051	SURENDHAR S	P	P	P	P	P	P	
38	620622104050	SOWMIYA R	P	P	P + 3	P	P	P	
37	620622104049	SIVASANKAR J	P	P	P' #	P	P	P	
36	620622104048	SIVARANJANI R	P	P	P	P	P	P	
35 🍝	620622104047	SHARMILA K	P	P	P	P	P	P	
34	620622104046	SHANMUGAM K	P	P	P	à P	AB	P	



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CERTIFICATE COURSE - ACADEMIC YEAR - 2023-2024(EVEN SEM) WA803 - WEB APPLICATION

STUDENTS PARTIPATION LIST

CNO	DEC MUMPED	STUDENTS PARTIPATION LIST	
S.NO	REG. NUMBER	NAME OF THE STUDENT	SIGNATURE
1 2	620622104001	ABINAYA V	ABINAYA.V
3	620622104003	AKASH P	Akastro P
4	620622104004	AMUTHESWARAN S	Acrithachour
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6	620622104010	BALRAJ P	BALROY.
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9	620622104013	GOKULRAJ M	Mary
10	620622104015	JANANI M	Javan
11	620622104016	JAYANDHI S	Jamedhy
12	620622104017	JOY SAMUEL B	Jay Sanjeli
13	620622104018	KARTHICK M	Karthika. M
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16	620622104022	KRISHNAN R	k, kow
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26	620622104035	RAJNAVEEN J	R
27	620622104036	RENUGA S	Romiga -S
28	620622104039	SANJAI S	Higas
29	620622104040	SANJAY K	k suniay
30	620622104041	SARATHKUMAR S	STORY
31	620622104042	SATHISH KUMAR M	Service 1.
32	620622104043	SATHISH KUMAR S	Parts
33	620622104044	SETHUPATHY C	Post Colinary
34	620622104046	SHANMUGAM K	Shallmit
35	620622104047	SHARMILA K	Station
36	620622104048	SIVARANJANI R	1 d.
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38	620622194050	SOWMIYA R	(a) 18 th
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43	620622104037	VETRIVEL K P	& Vasatin
44	620622104058	VIGNESHWARAN C	P. votrice
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GCE/EEE/2023-2024/EVT09

DATE: 03.09.2023

CIRCULAR

The Electrical and Electronics Department has decided to conduct a Value added Course on "EVT10509 – ELECTRIC VEHICLE TECHNOLOGY" for the IInd year Electrical and Electronics Engineering students from 03.09.2023 to 01.10.2023 on every Sundays. Interested students can enroll their name to the program coordinator Mr.T.VinothRaj, Professor on or before 22.08.2023.

Venue: Conference Hall

Copy to:

1. Principal's Office

2. IQAC

3. Department file



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ACADEMIC YEAR 2023-2024 (ODD SEM)

CERTIFICATE COURSE

EVT10509- ELECTRIC VEHICLE TECHNOLOGY

SYLLABUS

UNIT I: Electric Vehicle: Introduction

History of Electric Vehicles – Automobile power Train-Architecture of Electric Vehicles -Types of Electric Vehicles- Break down of key components in EV-Vehicle Control Unit –Controllers used in EV

UNIT II: Power Electronics Converters and Electrical Motors for EV

Power Semiconductor devices- Rectifiers- DC -DC converters-Inverters -Bidirectional Chargers. Induction Motors Permanent Magnet Brushless DC motor - Switched reluctance motor - Permanent magnet synchronous motor and their controllers -Regenerative Braking-Integration with Vehicle Systems

UNIT III: Battery Management Systems (BMS) for EV

Batteries –Types of Batteries- Battery packs- Energy Density and Range- Battery Degradation and Lifetime-Functions of a BMS-State of Charge (SoC) —State of Health-Temperature Management-Cell Balancing- Charging Control-Sensors-Battery Management Systems

UNIT IV: Electric Vehicle Charging

ON Board chargers - Off board chargers- Level 1 Charging-Level 2 Charging-DC fast Charging-Charging Connectors- Range and Efficiency

Program Coordinator

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ACADEMIC YEAR 2023-2024 (EVEN SEM)

CERTIFICATE COURSE

EVT10509- ELECTRIC VEHICLE TECHNOLOGY

PROGRAM REPORT

The Department of Electrical and Electronics Engineering, Ganesh College of Engineering organized Certificate course on "Electric Vehicle Technology" course was inaugurated on 06.09.2023, 10.30 a.m. Inaugural address was given by our principal Dr.M.Subas Chandrabose. MR.M.Karthikeyan AP/ EEE delivered the welcome address. It was conducted during Sundays from 03.09.2023 to 01.10.2023 for the duration of 35 hours. Mr.T.VinothRaj, AP/EEE, initiated the session by giving a brief Introduction on Electric Vehicle Technology. Experienced faculty members of our department train the students on electric vehicle models and Mr.P.Vijayakumar, Senior Engineer, YardStick Academy, Salem provides hands on experience to participants.

The Course Assessment was conducted on 03.09.2024 (AN), in MCQ pattern based on the topics covered. Around 20 EEE students successfully completed the course. The students were highly benefited by theoretical and practical aspects of course.

The feedback was collected from the participants, Mr. M.Karthikeyan, AP/EEE delivered the vote of Thanks at the end of the session.



Program Coordinator

SALEM 636 111 6

Head of the Department

Ganesh College of Engineering, Attur Main Road, Mettupatti, SALEM-636-111.



(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai) Attur Main Road, Mettupatti, Salem - 636 111, Tamilnadu, India Phone: 0427 - 2211212, +91 9865440414

E-Mail: principal@ganeshenggcollege.org

www.ganeshenggcollege.org

ACADEMIC YEAR- 2023-2024 (ODD SEM)

CERTIFICATE COURSE

EVT10508 - ELECTRIC VEHICLE TECHNOLOGY

FEEDBACK OUESTIONAIRE(PLEASE TICK THE APPROPRIATE ANSWER)

Name of the Participant: S. Dinesh	Class: II EEE
1. Was the presentation clear and relevant to the topic?	

Yes/No

2. Was the session well organized?

Yes/No

3. Was the course material provided sufficient and relevant?

yes/No

4. Was the expert member capable of delivering the contents Clearly?

Yes/No

5. Would you like to attend similar type of course again in the future?

Yes/No

It help me to develop me own intereste and aptitudes, and prepare me to meet industrial demands.

S. Dines.

SIGNATURE OF THE PARTICIPANT





MCIPAL Ganesh College of Engineering Attur Main Road, Mettupatti, SALEM-636 111.



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GANESH COLLEGE OF ENGINEERING CERTIFICATE COURSE EVT10509- ELECTRIC VEHICLE TECHNOLOGY STUDENT PARTICIPATION LIST

S.NO	REGISTER NUMBER	NAME OF THE STUDENT	SIGNATURE
1	620622105003	Dinesh S	pinesh.s
2	620622105004	Govindha perumal J	J. Geovinta porcuma
3	620622105007	Muniyappan P	Muniyappan . P
4	620622105008	Nithish prasanna S	withish Prasanna -S
5	620622105009	Pandu B	Pande B
6	620622105011	Pradeepa S	Pradoopa .s
7	620622105012	Rakesh T	Rakesh.T
8	620622105013	Ruban P	P. Ruban
9	620622105014	Sakthivel C	Sak thewel.c
10	620622105015	Saravanan K	Shanmuga Driva S
11	620622105016	Shanmugapriya S	Pasquanan K
12	620622105017	Siranjeevi M	Stranjoevi M
13	620622105018	Siva K	sula. K
14	620622105021	Tamilvelan A	Tamilrelan.A
15	620622105022	Thirumalai S	Thermulais.
16	620622105023	Vasu M	Vadu. M
17	620622105024	Vijayakumar K	vajayakumaT:K
18	620622105303	Kabilan P	Kabilan . P
19	620622105305	Krubakaran B	krubukaran. B.
20	620622105306	Mohamed umar basha S	Mohamed unout basha:

Course Coordinator



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Principal

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EVT10509- ELECTRIC VEHICLE TECHNOLOGY

COURSE OUTCOMES

Upon the completion of Electric vehicle technology certification course will learn to Electric vehicle design and models, and will also gain knowledge of the following:

- Components; EV classification
- Battery Electric vehicle (BEV); Hybrid electric vehicle (HEV)
- Cell Types their Selection, sizing & layout design
- · Charging station& their types
- Energy Storage Solutions
- Types & Selection criteria of Motors; Torque calculation
- Mechanical & Electrical connection of motor
- Service, Maintenance & Repair of EVs as Career
- Other Challenges

PROGRAM COORDINATOR

HOD





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Ganesh College of Engineering.

Attur Main Road, Mettupatti

SALEM-636 111

GANESH COLLEGE OF ENGINEERING CERTIFICATE COURSE EVT10509- ELECTRIC VEHICLE TECHNOLOGY ATTENDANCE SHEET

S.NO	REGISTER NUMBER	NAME OT THE STUDENT	03.09.23	10.09.23	17.09.23	24.09.23	01.10.23
1	620622105003	Dinesh S	P	P	P	P	P
2	620622105004	Govindha perumal J	P	P	р	P	P
3	620622105007	Muniyappan P	P	P	р	P	P
4	620622105008	Nithish prasanna S	P	P	P	P	P
5	620622105009	Pandu B	P	P	P	P	P
6	620622105011	Pradeepa S	P	P	P	P	AB
7	620622105012	Rakesh T	P	P	AB	P	P
8	620622105013	Ruban P	P	P	P	P	P
9	620622105014	Sakthivel C	P	P	P	P	P
10	620622105015	Saravanan K	P	P	P	P	P
11	620622105016	Shanmugapriya S	P	AB	P	P	P
12	620622105017	Siranjeevi M	P	P	P	P	P
13	620622105018	Siva K	P	P	P	P	P
14	620622105021	Tamilvelan A	P	P	P	P	P
15	620622105022	Thirumalai S	P	P	P	P	P
16	620622105023	Vasu M	P	P	P	P	P
17	620622105024	Vijayakumar K	P	P	P	P	P
18	620622105303	Kabilan P	P	P	Р	P	P
19	620622105305	Krubakaran B	P	P	Р	P	P
20	620622105306	Mohamed umar basha S	Р	AB .	Р	Р	Р
	Course Coo	rdinator	Vill	Wind	Wint	Vin	Vo

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Ganesh College of Engineering

Attur Main Road, Mettupatti,

SALEM-636 111.



Certificate of Participation



the Value Added Course on " EVTIO 509. ELECTRIC VEHICEL TECHNOLOGY Y

COORDINATOR





Certificate of Participation



the Value Added Course on " ENTISSOS. FLECTRIC VEHICEL TECHNICLOGY, " Engineering, Salem. During 3.09.83. To 61.10.23

COORDINATOR



Ganesh College of Engineering,





the Value Added Course on " EXT 10509 - ELECTRIC NEHICEL TECH MOLOGAN "

offered by the Department of "ELECTRICAL" CARD ELECTRICALICS... ENGy......, Ganesh College of

Engineering, Salem. During \$3..... \$3.... To \$1. 10... 23.....

The House

COORDINATOR







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GCE/EEE/2023-2024/SPID08

DATE: 22.05.2024

CIRCULAR

The Electrical and Electronics Department has decided to conduct a Value added Course on "SPID10508 – SOLAR PHOTOVOLATIC SYSTEM DESIGNING AND INSTALLATION" for the IInd year Electrical and Electronics Engineering students from 21.05.2024 to 25.05.2024. Interested students can enroll their name to the program coordinator Mr.T.VinothRaj, Professor on or before 17.05.2024.

Venue: Conference Hall

Copy to:

1. Principal's Office

2. IQAC

3. Department file

SALEM 636 111 SE



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ACADEMIC YEAR 2023-2024 (EVEN SEM)

CERTIFICATE COURSE

SPDI10508- SOLAR PHOTOVOLTAIC SYSTEM DESINING AND INSTALLATION

SYLLABUS

UNIT I: Solar Photovoltaic

Solar Cell and its function, Solar Technologies, Solar Cell Parameters, Efficiency of Solar Cell, Solar PV Module, Rating of Solar PV Module, PV Module Parameters, Efficiency of PV Module, Measuring Module Parameters, Connection of PV Module in Series and Parallel, Estimation and Measurement of PV Module Power, Selection of PV Module.

UNIT II: Batteries

Battery function, Types of Batteries, Battery parameters, Selection of Battery, Series Parallel combination of Batteries, Batteries for Photo voltaic System, Application of Batteries in Solar PV system, Battery Maintenance and Measurements, Battery Fault Detection and Test, Battery Installation for PV system.

UNIT III: Electrical Wiring

Types of Wire, Wire Sizing, Junction Box, DC cabling, AC cabling, Array Combiner Box, AC Distribution Box, Energy Metering, Electrical Grounding, Earth Resistance and Insulation Resistance Measurements.

UNIT IV: Solar PV System Design and Installation

Solar Radiation Energy Measurements, Estimating Energy requirement, Types of Solar PV System, Design methodology for SPV system, Design and Development of Solar Street Light and Solar Lantern, Installation and Trouble shooting of Standalone Solar PV System, Safety in installation of Solar PV System, Maintenance of Solar PV System.

Program Coordinator

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HOD

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ACADEMIC YEAR 2023-2024 (EVEN SEM)

CERTIFICATE COURSE

SPDI10508- SOLAR PHOTOVOLTAIC SYSTEM DESINING AND INSTALLATION

PROGRAM REPORT

The Department of Electrical and Electronics Engineering, Ganesh College of Engineering organized Certificate course on "Solar Photovoltaic System Designing and Installation" course was inaugurated on 22.05.2024, 10.30 a.m. Inaugural address was given by our principal Dr. M. Subas Chandrabose. MR. M. Karthikeyan AP/ EEE delivered the welcome address. It was conducted during Thursday from 21.05.2024 to 25.05.2024 for the duration of 35 hours. Mr.T.VinothRaj, AP/EEE, initiated the session by giving a brief Introduction on Solar Photovoltaic System. Experienced faculty members of our department train the students on designing of solar photovoltaic system and Mr. M. Gowtham, Senior Engineer, Unit of NIRE Solution, Salem provides hands on experience to participants.

The Course Assessment was conducted on 22.05.2024 (AN), in MCQ pattern based on the topics covered. Around 18 EEE students successfully completed the course. The students were highly benefited by theoretical and practical aspects of course. The students were able to design and install the solar photovoltaic system.

The feedback was collected from the participants, Mr. M. Karthikeyan, AP/EEE delivered the vote of Thanks at the end of the session.



Program Coordinator



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Head of the Department

Ganesh College of Engineering, Attur Main Road, Mettupatti, SALEM-636 111.



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ACADEMIC YEAR- 2023-2024 (EVEN SEM)

CERTIFICATE COURSE

SPDI10508 - SOLAR PHOTOVOLTAIC SYSTEM DESIGNING ANDINSTALLATION

EE

FEEDBACK QUESTIONAIRE(PLEASE TICK THE APPROPRIATE ANSWER)
Name of the Participant: Governda perumal. I Class: II /E
1 . Was the presentation clear and relevant to the topic? Yes/No
2. Was the session well organized? Yes/No
3. Was the course material provided sufficient and relevant?
4. Was the expert member capable of delivering the contents Clearly? Yes/No
5. Would you like to attend similar type of course again in the future?
Yes/No
The course was wonderfully practical both personally and professionally.
T / No

SIGNATURE OF THE PARTICIPANT





Ganesh College of Engineering: Altur Main Road, Metiupatti, SALEM-686 1M.



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E-Mail: principal@ganeshenggcollege.org www.ganeshenggcollege.org

GANESH COLLEGE OF ENGINEERING CERTIFICATE COURSE

SPDI10508-SOLAR PHOTOVOLTAIC SYSTEM DESIGNING AND INSTALLATION STUDENT PARTICIPATION LIST

S.NO	REGISTER NUMBER	NAME OF THE STUDENT	SIGNATURE
1	620622105003	Dinesh S	Dinesh-6
2	620622105004	Govindha perumal J	J. Govindha perumal
3	620622105007	Muniyappan P	Muniyappan P
4	620622105008	Nithish prasanna S	Nithish Prasanna-5
5	620622105009	Pandu B	Pardie B
6	620622105011	Pradeepa S	Pradogas
7	620622105012	Rakesh T	Rakesh. T
8	620622105013	Ruban P	P Rubun
9	620622105014	Sakthivel C	saythurel.c
10	620622105015	Saravanan K	Baraanan, K
11	620622105016	Shanmugapriya S	Shanmugapaiya. S
12	620622105017	Siranjeevi M	Dirayeon M.
13	620622105018	Siva K	Suia X
14	620622105021	Tamilvelan A	Tamil velan:A
15	620622105022	Thirumalai S	Thirmulan os
16	620622105023	Vasu M	vasu.M
17	620622105024	Vijayakumar K	Vijaya Kuman K
18	620622105303	Kabilan P	Kabilan B
19	620622105305	Krubakaran B	Krubakasan B
20	620622105306	Mohamed umar basha S	Mohamed ruman bushas

Course Coordinator





Principal

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SALEM-636 111



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SPDI10508-SOLAR PHOTOVOLTAIC SYSTEM DESIGNING AND INSTALLATION

COURSE OUTCOMES

Upon the completion of Solar Photovoltaic System Designing and Installation certification course will learn Solar Photovoltaic to design and installation, and will also gain knowledge of the following:

- Understand the basics solar energy and concept of solar PV (photovoltaic) system
- Site assessment and load calculation
- System design
- Mounting and Installation
- Electrical wiring and connections
- · System testing and commissioning
- · Operation and maintenance
- Safety protocols
- Potential career paths after completing this course

PROGRAM COORDINATOR

HOD





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SALEM-636 111.

GANESH COLLEGE OF ENGINEERING CERTIFICATE COURSE

SPDI10508-SOLAR PHOTOVOLTAIC SYSTEM DESIGING AND INSTALLATION ATTENDANCE SHEET

S.NO	REGISTER NUMBER	NAME OT THE STUDENT	21.05.24	22.05.24	23.05.24	24.05.24	25.05.24
1	620622105003	Dinesh S	P	P	P	P	P
2	620622105004	Govindha perumal J	P	P	р	P	P
3	620622105007	Muniyappan P	P	Р	р	P	P
4	620622105008	Nithish prasanna S	P	P	P	P	P
5	620622105009	Pandu B	P	P	P	P	P
6	620622105011	Pradeepa S	P	P	P	P	AB
7	620622105012	Rakesh T	P	P	AB	P	P
8	620622105013	Ruban P	P	P	P	P	P
9	620622105014	Sakthivel C	P	P	P	P	P
10	620622105015	Saravanan K	P	P	P	P	P
11	620622105016	Shanmugapriya S	P	AB	P	P	P
12	620622105017	Siranjeevi M	P	P	P	P	P
13	620622105018	Siva K	P	P	P	P	P
14	620622105021	Tamilvelan A	P	P	P	P	P
15	620622105022	Thirumalai S	P	P	P	P	P
16	620622105023	Vasu M	P	P	P	P	P
17	620622105024	Vijayakumar K	P	P	P	P	P
18	620622105303	Kabilan P	P	P	P	P	P
19	620622105305	Krubakaran B	P	P	P	P	P
20	620622105306	Mohamed umar basha S	Р	AB ,	Р	Р	P.
	Course Coo	ordinator	(mary)	(may	- Whan	INHV?	- American

HOD

PRINCIPAL





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Ganesh College of Engineering.
Attur Main Road, Mettupatti,
SALEM-636 111

Certificate No: SE-007/WS-



NIRE

NATIONAL INSTITUTE OF RENEWABLE ENERGY
Unit of NIRE SOLUTION
SALEM-636 007



COLLEGE OF ENGINEERING (GCE) has participated in the Three Days workshop on "Solar Photovoltaic System Designing and Installation" held on May 22-24, 2024 at the Department of Electrical & Electronics, GANESH COLLEGE OF ENGINEERING (GCE), METTUPATTI, SALEM of GANESH THIRDMALAI S, Û.YY FEE This is to certify that Ms/Mr

(Dr.M.SUBAS CHANDRABOSE)
PRINCIPAL,
GANESH COLLEGE OF ENGINEERING (GCE),
SALEM

Ganesh College of Enginee Managing Director, Attur Main Road, Mettupatti, Nire Solution, SALEM-636 111.



NIRE

NATIONAL INSTITUTE OF RENEWABLE ENERGY Unit of NIRE SOLUTION SALEM-636 007



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(Dr.M.SUBAS CHANDRABOSE)
PRINCIPAL,
GANESH COLLEGE OF ENGINEERING (GCE), 100A



PREJUCIT (Mr.V.MANOJ KUMAR)
Sanesh Cellege of EMANAGING DIRECTOR,
Attur Main Road, Metnire solution,
SALEM-636 111, SALEM



NIRE

NATIONAL INSTITUTE OF RENEWABLE ENERGY Unit of NIRE SOLUTION SALEM-636 007



COLLEGE OF ENGINEERING (GCE) has participated in the Three Days workshop on "Solar Photovoltaic System Designing and Installation" held on May 22-24, 2024 at the Department of Electrical & Electronics, GANESH COLLEGE OF ENGINEERING (GCE), METTUPATTI, SALEM of GANESH SIVA. K. II. Y. FEF This is to certify that Ms/Mr

(Dr.M.SUBAS CHANDRABOSE)
PRINCIPAL,
PRINCIPAL,
SALEM
SALEM

SALEM SALEM 636 111

Sanesh College of Engineering.
Altur Main Road, Mettupatti,
SALEM-636 111,

(Mr.V.MANOJ KUMAR)
MANAGING DIRECTOR,
NIRE SOLUTION,



GEC/ECE/2023-2024/CC9

DATE: 13.08.2024

CIRCULAR

The ECE Department has decided to conduct a certificate course on "10602-Internet Of things Computing Concepts" for second year, third year and final year students from 01.09.2024 to 20.10.24 (All Sunday). Interested students have to enroll their name to the program coordinator T.Karthick, AP on or before 22.08.24.

Copy to:

1. Principal's Office

2. IQAC

3. Concerned Department Heads

PRINCIPAL

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E-Mail: principal@ganeshenggcollege.org

Syllabus

MODULE-I

Definition & Characteristics of IOT, Physical Design of IOT, Basic Components of IoT, Thing Sensing & Actuators, Vision, Physical Parameters. IOT Protocols. Application Areas of IoT: Home Automation, Smart Cities, Medical, Logistics, Environment, Analytics. Smart Grids.

MODULE-II

IOT Communication Models, APIs, IoT Architecture: Basic Architecture: 3 layer and 5-layer Architecture, ITU- IoT Reference Model, Machine to Machine Communication, IoT Gateways. Wireless Sensor Networks. Technologies: Bluetooth Low Energy (BLE), ZigBee: Architecture, Comparison with other wireless standards. LoraWAN.

MODULE-III

Electronic Product Code (EPC), Near Field Comm. (NFC), 6LoWPAN, End to End Reliability: MQTT, SCADA. Hardware and Software Platforms: Hardware: Raspberry Pi, ESP8266 Wifi Module, Arduino. Implementation of Basic Sensors (temperature, humidity, proximity, gas, air quality, Ultrasonic sensors)







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INTERNET OF THINGS COMPUTING CONCEPT

FEEDBACK QUESTIONNAIRE

(PLEASE TICK THE APPROPRIATE ANSWER)

Name of the participant: V. DHARSHIMI

Class: II/III/IV-ECE

- 1. Was the presentation clear and relevant to the topic? Yes/No
- 2. Was the session well Organized? Yes/No
- 3. was the course material provided sufficient and relevant? Yes/No
- 4. was the expert member capable of delivering the contents clearly?
- 5. would you like to attend similar type of course again in the future? Yes/No

Comment

Signature of the participant







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E-Mail: principal@ganeshenggcollege.org

ACADEMIC YEAR 2023-2024 (EVEN SEM)

CERTIFICATE COURSE

10602-INTERNET OF THINGS COMPUTING CONCEPT

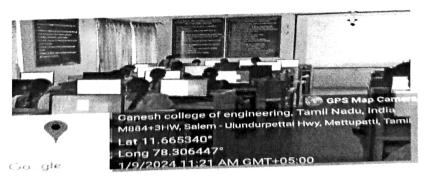
PROGRAM REPORT

Resource Person: 1. Rajesh .M

- 2. Naveen.B
- 3. Arul Prasath.P

The Department of Electronics and Communication Engineering , Ganesh College of Engineering organized a certificate course on 10602-Internet of things concept computing. The Course Commenced on 22.08.2024 and was Conducted during the weekends from 01.09.2024 to 20.10.2024 for the duration of 30 hours. T.Karthick Asst.Prof/ECE initiated the course by giving a brief Introduction on Internet of things concept. The course covered the architecture of internet of things during the theoretical Sessions. During the Hands-on-sessions. programming and machine to machine communication.

The course Assessment was conducted on 01.09.2024 in a MCQ pattern based on the topic covered. Around 80 students of ECE (UG) completed the course. The students were highly benefited by theoretical and practical aspects of the course. The students showed their interest in learning the course. The feedback on the course conducted was collected from the participants by M. Vasanth AP/ECE at the end of the Session.



Course Coordinator

C. I.P. I of Estead of the Department



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E Mail: principal@ganeshenggcollege.org www.ganeshenggcollege.org

INTERNET OF THINGS CONCEPT COMPUTING

CERTIFICATE COURSE; STUDENT PARTICIPATION LIST

S.No	Reg.Number	Name of the Students	Remarks
1	620621106001	ANUSHA K	Anugha.k.
2	620621106003	DHANUSH P	g coloni. N
3	620621106005	ESTHER Y	Felter W
4	620621106006	EVANGELIN M	M. Evangel
5	620621106007	GOKULNATH R D	Grokulnath. R.D
6	620621106008	GOPI S S	Colh
7	620621106009	GOPIKA T	Glopika. T.
8	620621106010	HARIHARAN G	N 11 and 1
9	620621106011	JAYAPRAKASH V	V Tayatan
10	620621106014	KAVIYA R	P. Occilr.
11	620621106016	MANOJ C	Manit
12	620621106017	NARMADHA S	So Nasimadhas
13	620621106019	POOJA M	(1)
14	620621106022	RAGUL P	to a D
15	620621106023	RASHITHA S	P. Raguy
16	620621106025	SAKTHIVEL D	9. Rashithas
17	620621106027	SANTHOSHKUMAR A S	N. 2 0 11
18	620621106028	SATHISH M	A.S Santhoch Kum
19	620621106031	SNEHA B	4. Jathis Ly
20	620621106035	SUBASRI G	B. Shehay
21	620621106038	THIRUPPATHIAZHAKAN R	2 chapir.
22	620622106001 OF	ANANON OF PA	R. Thi stuppathing

31	620622106003	ARTHES	A
24	630633100003	CHANDIRAMOHAN V	1
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27	620622106007	GAYATHREN	gagatisi.
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30	620622106010	GÓWTHAM PRASATH T	By John
10	620622106011	JAGATH AMARNATH	Jasoth
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33	620622106016	KRISHNAMOORTHY C	
11	620622106018	MANIBHARATHEM	Manighardh
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18	620622106024	NITHISH S	nithail.
10	620622106025	PARVESH D	Danie J
40	620622106026	PRIVADITARSHINIK	
41	620622106027	RAJKUMAR.T	Faille 1
42	620622106028	RANGANATHÁN.S	Ranganathan
43	620622106030	RUTHRAMOORTHY K	Suthac.
44	620622106033	SINDHU V	Such.
45	620622106035	SUBALAKSHMER	Subalaton;
46	620622106036	SUBASH CHANDRABOSE	Acmes 1906
47	620622106038	VEDHACHALAM A	1. vedhachalar
48	620622106039	VIGNUSHWARI A	A rignoss 1
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52	62((622) ()6(0))	ANANDHAN R	Anardhan R
53	620623106001	AJAY P	Atay.
:4	620623106003	ARKESH A	Ashael A.
35	620623106006	DANIEL S	Ship
.50	620623106007	DHARSHAN M	Dharkan
5	620623106008	DHARSHINI V	5 मंध्रकी V.
· iz	620623106009	GOBINATH S	Goz.
	620623106010	HARI MURALIDHARAN R	Karhuida:
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62	620623106015	MANJUKUMAR S	Marinkumal
63	620623106016	MERLIN RIA A	Went-
54	620623106017	MOULIPRIYAN M	Mouli Pinger
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66	620623106020	RUBINI S	duhii"
6	620623106021	SANDHIYA P	Santhiya
65	620623106022	SANGEETHA KUMARI.S	Sange the lynn
69	620623106024	SELVA BHARATHY B	- Pelvastranoty.
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	620623106027	SIVANESH B	Sunch.
∞ √ n ,	620623106029	VIGNESH G	Vinea G
***	620623106030	VIJAYAKUMAR S	Vijay S.
			1

Course Co Ordinator







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ACADEMIC YEAR 2023-2024-(EVEN SEM)

CERTIFICATE COURSE ON

10602-INTERNET OF THINGS COMPUTING CONCEPT

OUT COME OF THE PROGRAM

- 1.Students learned the basic knowledge of definition and significance of internet of things.
- 2.Students learned the basic knowledge of architecture, operation and business benefits of IOT solution.
- 3. Students learned the potential business opportunities that IOT can uncover.
- 4. Students learned the relationship between IOT, cloud computing, and big data.
- 5.Students learned about the practical approach in identify how IOT differs from traditional data collection.







CERTIFICATE COURSE ACADAMIC YEAR 2023-2024 (EVEN SEM) 10602-INTERNET OF THINGS COMPUTING CONCEPTS STUDENT ATTENDANCE PARTICULAR

					NCE PARTICU	LAR	20.00.24	06.10.24	20.10.24	REMARKS
S.No	REG.NO	NAME OF STUDENTS	01.09.24	08.09.24	15.09.24	22.09.24	27107121		P	
1	620621106001	ANUSHA K	Р	P	P	P	P	AB	-	
2	620621106003	DHANUSH P	AB	P	P	P	P	P	P	
3	620621106005	ESTHER Y	Р	P	P	P	P	AB	P	
4	620621106006	EVANGELIN M	Р	P	P	P	P	P	P	
5	620621106007	GOKULNATH R D	P	P	P	P	P	P	P	
6	620621106008	GOPI S S	P	AB	P	P	P	P	P	-
7	620621106009	GOPIKA T	P	P	P	P	P	P	P	
8	620621106010	HARIHARAN G	P	P	P	P	P	P	P	
9	620621106011	JAYAPRAKASH V	P	P	P	P	AB	P	P	-
10	620621106014	KAVIYA R	P	P	P	P	P	P	P	
11	620621106016	MANOJ C	P	P	P	AB	P	P	P	
12	620621106017	NARMADHA S	P	P	P	P	P	P	P	
13	620621106019	POOJA M	P	P	P	P	P	P	P	
14	620621106022	RAGUL P	P	P	P	P	P	P	P	
15	620621106023	RASHITHA S	P	P	P	P	P	AB	P	
16	620621106025	SAKTHIVEL D	P	P	P	Р	P	P	P	
17	620621106027	SANTHOSHKUMAR A S	P	Р	P	AB	P	P	P	
	620621106028	SATHISH M	P	Р	Р	P	P	P	P	
18		SNEHA B	P	AB	P	P	P	P	P	
19	620621106031	SUBASRI G	P	P	P	P	P	P	P	
20		THIRUPPATHIAZHAKAN R	-	P	P	Р	P	P	P	
21	620621106038		P	P	P	P	P	P	P	
22	620622106001	ANANDHAN R	P	P	P	P	P	P	P	
23	620622106002	ARTHI S		P	P	P	P	P	P	
24	620622106003	CHANDIRAMOHAN.V	P	-	P	P	P	P	P	
25	620622106004	DEEPIKA S	AB	P		P	P	P	P	
26	620622106006	DHINESH SHARMA K	P	P	P	-	P	P	P	
27	620622106007	GAYATHRI N	P	P	P	AB	P	P	P	
28	620622106008	GOPI M	P	P	P	P	-		1	-
29	620622106010	GOWTHAM PRASATH.T	P	P	P	P	P	P	P	
30	620622106011	JAGATH AMARNATH	P	P	P	P	P	P	P	-
31	620622106012	JAGATHESHKUMAR.K	P	P	P	P	AB	P	P	-
32	620622106016	KRISHNAMOORTHY C	P	Р	P	P	P	P	P	
33	620622106018	MANIBHARATHI.M	P	Р	P	P	P	P	P	
34	620622106019	MANOJ.M	P	Р	P	P	P	Р	P	
35	620622106020	MANORANJTH.P	P	Р	P	P	P	P	P	
36	620622106021	MEGANATHAN M	Р	P	P	P	P	P	P	
37	620622106023	NAVINA.S	P	P	P	P	P	AB	P	
38	620622106024	NITHISH S	Р	P	P	Р	P	P	P	
39	620622106025	PARVESH D	Р	P	P	P	Р	P	P	
40	620622106026	PRIYADHARSHINI K	P	P	P	P	P	Р	P	
	620622106027	RAJKUMART	P	P	P	P	P	AB	P	
41		RANGANATHAN S	P	P	P	P	P	P	P	
42	620622106028		Marian Service Service Services	P	P	P	P	P	P	
43	620622106030	RUTHRAMOORTHY K	P	-	-	-	P	P	P	
44	620622106033	SINDHU V	P	P	P	P	-	-	-	
45	620622106035	SUBALAKSHMER	P	P	P	P	P	Р	P	1

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46	620622106036	SUBASH CHANDRABOSE	P	P	P	P	ľ	P	P	
47	620622106038	VEDHACHALAM A	p	r	P	P	P	P	P	
48	620622106039	VIGNESHWARI A	p	Р	AB	Р	Р	Р	Р	
40	620622106040	VUAY.S	Р	P	Р	p	АВ	P	Р	
50	620622106042	VINOTHKUMAR S	р	Р	P	Р	Р	P	P	
51	620622106043	YOGESHWARAN K	p	Р	P	P	Р	P	P	
52	620622106044	YOGIPRAKASH S	p	p	Р	P	Р	P	P	
53	620623106001	AJAY P	P	P	Р	Р	Р	p	P	
54	620623106003	ARKESH A	р	p.	Р	Р	P	P	p	
55	620623106006	DANIEL S	p	P	р	P	P	p	p	
56	620623106007	DHARSHAN M	P	P	P	AB	P	p	P	
57	620623106008	DHARSHINI V	Р	P	Р	Р	P	p	p	
58	620623106009	GOBINATH S	P	P	P	Р	P	p	P	
59	620623106010	HARI MURALIDHARAN R	P	P	Р	P	Р	Р	Р	
60	620623106011	KATHIRAVAN S	P	P	Р	P	P	Р	Р	
61	620623106012	KAVIPRIYAN M	P	P	P	P	P	Р	P	
62	620623106015	MANJUKUMAR S	Р	P	P	AB	P	Р	P	
63	620623106016	MERLIN RIA A	Р	P	P	P	P	AB	Р	
64	620623106017	MOULIPRIYAN M	P	P	Р	Р	Р	Р	P	
65	620623106019	RANJITH B	P	P	P	Р	Р	Р	Р	
66	620623106020	RUBINI S	р	P	P	Р	Р	Р	Р	
67	620623106021	SANDHIYA P	P	P	P	P	Р	Р	Р	
68	620623106022	SANGEETHA KUMARI S	P	P	P	P	Р	P	Р	
69	620623106024	SELVA BHARATHY B	P	P	P	AB	P	P	Р	
70	620623106026	SHOUDHIRI A	P	P	P	P	Р	P	P	
71	620623106027	SIVANESH B	P	P	AB	P	P	P	P	
72	620623106029	VIGNESH G	Р	P	P	Р	P	P	P	
73	620623106030	VIJAYAKUMAR S	P	P	Р	Р	P	P	P	



PRINCIPAL
Ganesh College of Engineers
Attur Main Road, Mettupati
SALEM-636 111



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GEC/ECE/2023-2024/CC8

DATE: 13.03.2024

CIRCULAR

The ECE Department has decided to conduct a certificate course on "106009-Sensor Technology "for second year, third year and final year students from 31.3.24 to 12.5.24 (All Sunday). Interested students have to enroll their name to the program coordinator E.KEERTHIKA, AP on or before 01.03.2024.

Copy to:

1. Principal's Office

2. IQAC

3. Concerned Department Heads

PRINCIPAL
PRINCIPAL
Ganesh College of Engineering.
Attur Main Road, Mettupatti,
SALEM-835 111.





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Syllabus

MODULE-I

Transducers and sensors- Accuracy and precisions, types of errors, statistical analysis, probability of errors, limiting errors, sensitivity, linearity, hysteresis, resolution, reproducibility, transfer function. Analog Signal Conditioning: Signal conditioning, Loading effects, Bridges for measurement techniques, Attenuators and Amplifiers, Passive filters, Op-amp based signal conditioning circuits, Inverting and Non-Inverting Amplifiers, Linearization, Differential amplifiers and Instrumentation amplifiers.

MODULE-II

Digital Signal Conditioning: Digital measuring techniques, Sample and Hold Circuits, Comparator, Buffers, D/A Conversion and A/D Conversion, Single channel and multichannel Data Acquisition System (DAS). Temperature Sensors: Resistance Vs Temperature characteristics for different materials, Thermistors, Thermocouples - thermoelectric effects for thermocouples ,thermocouple tables, RTD, Other Thermal Sensors

MODULE-III

Pressure, force, displacement and weight measurement: Capacitive and inductive transducers, Displacement Sensor (LVDT), Strain Sensors – strain gauges, its principle, applications, types of strain gauges, Load cells, Piezo-electric sensors, Motion sensors.

MODULE-IV

Flow measurement: Basic principle of flow meter, Differential pressure flow meters, Variable area flow meter, Volumetric flow meter, Hotwire anemometer, Magnetic and ultrasonic flow meter, Rota meter, Hall effect transducer working and measurement techniques.

MODULE-5

RF sensing: Basic principle of EM fields, Antenna, RFID, Near Field and Far Field Sensing, Radar and Navigation, EMI & EMC sensing.





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Chaine 0427 /211212 - 11 202040411

SENSOR TECHNOLOGY

FEEDBACK QUESTIONNAIRE

(PLEASE TICK THE APPROPRIATE ANSWER)

Name of the participant: M. POOJA

Class: II/III/IV-ECE

- 1. Was the presentation clear and relevant to the topic? Yes/No
- 2. Was the session well Organized? Yes/No
- 3. was the course material provided sufficient and relevant? Yes/No
- 4. was the expert member capable of delivering the contents clearly? Yes/No
- 5. would you like to attend similar type of course again in the future? Yes/No

Comment

M. Pool.
Signature of the participant





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ACADEMIC YEAR 2023-2024 (ODD SEM)

CERTIFICATE COURSE

106009-SENSOR TECHNOLOGY

PROGRAM REPORT

Resource Person: 1. Ram kumar .R

2. Senthil kumar. V

3. Sunil.M

The Department of Electronics and Communication Engineering , Ganesh College of Engineering organized a certificate course on 106009-Sensor Technology. The Course Commenced on 01.03.2024 and was Conducted during the weekends from 31.03.2024 to 12.05.2024 for the duration of 30 hours. E.Keerthika Asst.Prof/ECE initiated the course by giving a brief Introduction on Sensor Technology and instrumentation. The course covered the transducer and sensor, digital signal conditioning and flow measurement of meter during the theoretical Sessions. During the Hands-on-sessions. programming and Interfacing EM field and RFID.

The course Assessment was conducted on 31.03.2024 in a MCQ pattern based on the topic covered. Around 80 students of ECE (UG) completed the course. The students were highly benefited by theoretical and practical aspects of the course. The students showed their interest in learning the course.

The feedback on the course conducted was collected from the participants by T.Karthick AP/ECE at the end of the Session.





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SENSOR TECHNOLGY

CERTIFICATE COURSE; STUDENT PARTICIPATION LIST

S.No	Reg.Number	Name of the Students	Remarks
1	620621106001	ANUSHA K	Anusha t
2	620621106003	DHANUSH P	Dhanugh.
3	620621106005	ESTHER Y	Estter.y.
4	620621106006	EVANGELIN M	Evanglin
5	620621106007	GOKULNATH R D	Gokulnath.
6	620621106008	GOPI S S	D. Con;
7	620621106009	GOPIKA T	Gopilca
8	620621106010	HARIHARAN G	Narihaum.
9	620621106011	JAYAPRAKASH V	Cuy -
10	620621106014	KAVIYA R	I beny re-
11	620621106016	MANOJ C	mang'.
12	620621106017	NARMADHA S	Naamadha
13	620621106019	POOJA M	Q _V
14	620621106022	RAGUL P	Rague.
15	620621106023	RASHITHA S	Parla
16	620621106025	SAKTHIVEL D	Rattinal
17	620621106027	SANTHOSHKUMAR A S	Sarare
18	620621106028	SATHISH M	PAN
19	620621106031	SNEHA B	Calae
20	620621106035	SUBASRI G	Suba
21	620621106038	THIRDPPATHIAZHAKAN R	The state of the s
22	620622106001	GANANDHAN REES OF	Ludlan.

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23	620622106002	ARTHES	And.
24	620622106003	CHANDIRAMOHANA	V. Chandiran
25	620622106004	DEEPIKA S	Dese Pile
26	620622106006	DHINESH SHARMA K	K. Dhinesh shar
27	620622106007	GAYATHRI N	Gayathiri
28	620622106008	GOPI M	M. GOD
29	620622106010	GOWTHAM PRASATH T	T. Gowtham Pray
30	620622106011	JAGATH AMARNATH	Jagath Amazur
31	620622106012	JAGATHESHKUMAR.K	Fagathehrum.
32	620622106016	KRISHNAMOORTHY C	C fils huanoood
33	620622106018	MANIBHARATHI.M	M. Maribharather
34	620622106019	MANOJ.M	Maroj.c
35	620622106020	MANORANJTH.P	P. Manganith
36	620622106021	MEGANATHAN M	Megarathan
37	620622106023	NAVINA.S	Namac
38	620622106024	NITHISH S	Nikin
39	620622106025	PARVESH D	Pawesh
40	620622106026	PRIYADHARSHINI K	With don'
41	620622106027	RAJKUMAR.T	Rajkoff
42	620622106028	RANGANATHAN.S	Rangana tag
43	620622106030	RUTHRAMOORTHY K	Luttra
44	620622106033	SINDHU V	Sende.
45	620622106035	SUBALAKSHMI.R	Suba
46	620622106036	SUBASH CHANDRABOSE	
47	620622106038	VEDHACHALAM A	Vedlachalan
48	620622106039	VIGNESHWARI A	2) Blikmojay
49	620622106040	VIJAY.S	w Chil
50	620622106042	VINOTHKUMARS	30 V Conthurar
51	620622106043	YOGESHWAR NICAC	13 Yogehweren
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53	620623106001	AJAY P	A Tari
54	620623106003	ARKESHA	Arko sh
55	620623106006	DANIEL S	Danhat
56	620623106007	DHARSHAN M	ah.
57	620623106008	DHARSHINI V	Fredor V.
58	620623106009	GOBINATH S	Glopingth
59	620623106010	HARI MURALIDHARAN R	1-1-2-1
60	620623106011	KATHIRAVAN S	Kathiravan.
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62	620623106015	MANJUKUMAR S	Manjukuna
63	620623106016	MERLIN RIA A	Massa
64	620623106017	MOULIPRIYAN M	Mul
65	620623106019	RANJITH B	Ranjith
66	620623106020	RUBINI S	Sanlow
67	620623106021	SANDHIYA P	Santyye
68	620623106022	SANGEETHA KUMARI.S	Sant
69	620623106024	SELVA BHARATHY B	80-
70	620623106026	SHOUDHIRI A	Louthri;
71	620623106027	SIVANESH B	diameli.
72	620623106029	VIGNESH G	whom
73	620623106030	VIJAYAKUMAR S	Vilay.

Course CoOrdinator

Principal







Approved by ACCE, New Delhi & Affiliated to Annia University Channellia.

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Phone: 0427 - 2211212 - 91 9865440414

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ACADEMIC YEAR 2023-2024-(ODD SEM)

CERTIFICATE COURSE ON

106009-SENSOR TECHNOLOGY

OUT COME OF THE PROGRAM

- 1.Students learned the basic knowledge of various sensor materials and technology used in designing sensors.
- 2.Students learned the basic knowledge of concept of sensors and its characteristics.
- 3.Students learned the physical principles of sensing based on sensor signals and systems.
- 4. Students learned the programming skills identify the sensor interfacing with various electronics circuits.
- 5.Students learned about the practical approach in design of technology based on different sensors.







Approved by AICTE & Affiliated to Anna University Altur Main Bond, Methiparti, Salam District, Pin. 636 111, TamilMadu, India

CERTIFICATE COURSE ACADAMIC VEAD 2022

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N.NO	REG.NO	NAME OF STUDENTS	31.03.24	07.04.24	14.04.24	21.04.24	28.04.2
1	620621106001	ANUSHA K	P	P	P	P	P
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N.NO	REG.NO	NAME OF STUDENTS	31.03.24	07.04.24	14.04.24	21.04.24	28 04 24	04 04 24	12.08.24	REMARKS
1	620621106001	ANUSHA K	P	P	P	D	P	05,05,24		REMARKS
2	620621106003	DHANUSH P	P	P	AB	P	A CONTRACTOR OF THE PARTY OF TH	,	P	
3	620621106005	ESTHER Y	P	P	P	P	P	P	P	
4	620621106006	EVANGELIN M	p	P	P		P	AB	P	The state of the s
5	620621106007	GOKULNATH R D	P	P	Marian San San San San San San San San San S	AB	P	P	P	
6	620621106008	GOP1 S S		-	P	P	P	P	P	
7	620621106009	СОРІКА Т	P	AB	P	P	P	P	Р	
8	620621106010	HARIHARAN G	P	P	P	P	P	P	P	
9	620621106011	JAYAPRAKASH V	P	P	P	P	P	Р	Р	
10	620621106014	KAVIYAR	P	b.	P	P	P	P	Р	
11	620621106016	MANOLC	P	P	P	P	Р	P	Р	
12	620621106017	NARMADHA S	P	•	P	P	Р	Р	Р	
13	620621106019	POOJA M	P	AB	P	P	P	Р	Р	
14	620621106022	RAGUL P	·	P	P	P	P	Р	Р	
15	620621106023	RASHITHA S	P	P	P	Р	P	Р	Р	
16	620621106025	SAKTHIVEL D	P	Р	P	P	P	AB	P	
17	620621106027	SANTHOSHKUMAR A S	P	P	P	Р	P	P	Р	
18	620621106028	SATHISH M	P	P	Р	AB	P	Р	Р	
19	620621106031		P	P	P	P	Р	P	Р	
20	620621106035	SNEHA B	P	AB	P	Р	P	Р	Р	
21	620621106038	SUBASRI G	P	P	P	P	P	P	P	
22	620622106001	THIRUPPATHIAZHAKAN R	P	P	P	P	P	P	P	
23	620622106002	ANANDHAN R	P	P	P	P	P	P	Р	
24	620622106003	ARTHLS	P	P	P	P	P	P	P	
25	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	CHANDIRAMOHAN.V	l'	P	P	Р	P	P	P	
	620622106004	DEEPIKA S	P	P	P	P	P	P	P	
26	620622106006	DHINESH SHARMA K	P	ľ	P	P	b	P	P	
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1	40	620622106026	PRIYADHARSHINI K	P	P	P	P	P	P	 	
43	41	620622106027	RAJKUMAR.T	P	P	P	P	P	AB	P	
44 620622106033 SINDHU V P P P P P P P P P	42	620622106028	RANGANATHAN.S	P	P	P	P	P	P	P	
45 620622106035 SUBALAKSHMI.R P P P P P P P P P P P P P P P P P P P	43	620622106030	RUTHRAMOORTHY K	P	P	Р	P	P	Р	P	
46 620622106036 SUBASH CHANDRABOSE P P P P P P P P P P P P P P P P P P P	44	620622106033	SINDHU V	P	P	Р	P	Р	P	P	
47 620622106038 VEDHACHALAM A P P P P P P P P P P P P P P P P P P	45	620622106035	SUBALAKSHMI.R	P	P	P	P	Р	P	P	
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49 620622106040 VIJAY.S P	48	620622106039	VIGNESHWARI A	P	P	AB	P	P	P	P	
SO 620622106042 VINOTHKUMARS P P P P P P P P P	49	620622106040	VIJAY.S	P	P	P	P	P	P	P	
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53 620623106001 AJAY P P	52	620622106044	YOGIPRAKASH S	P	P	P	P	P	P	P	
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58 620623106009 GOBINATH S P		620623106008	DHARSHINI V	P	P	P	P	P	P	P	
59 620623106010 HARI MURALIDHARAN R P <t< td=""><td></td><td>620623106009</td><td>GOBINATH S</td><td>P</td><td>P</td><td>P</td><td>P</td><td>P</td><td>P</td><td>P</td><td></td></t<>		620623106009	GOBINATH S	P	P	P	P	P	P	P	
60 620623106011 KATHIRAVAN S P <td></td> <td>620623106010</td> <td>HARI MURALIDHARAN R</td> <td>P</td> <td>P</td> <td>P</td> <td>P</td> <td>P</td> <td>P</td> <td>P</td> <td></td>		620623106010	HARI MURALIDHARAN R	P	P	P	P	P	P	P	
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62 620623106015 MANJUKUMAR S P <td>61</td> <td>620623106012</td> <td>KAVIPRIYAN M</td> <td>P</td> <td>P</td> <td>P</td> <td>P</td> <td>P</td> <td>P</td> <td>P</td> <td></td>	61	620623106012	KAVIPRIYAN M	P	P	P	P	P	P	P	
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64 620623106017 MOULIPRIYAN M P <td></td> <td>620623106016</td> <td>MERLIN RIA A</td> <td>P</td> <td>P</td> <td>P</td> <td>P</td> <td>P</td> <td>AB</td> <td>P</td> <td></td>		620623106016	MERLIN RIA A	P	P	P	P	P	AB	P	
65 620623106019 RANJIH B P P P P P P P P P P P P P P P P P P	64		MOULIPRIYAN M	P	P	P	P	P	P	P	
66 620623106020 RUBINI S P			RANJITH B	P	P	P	P	P	P	P	
67 620623106021 SANDHIYA P P			RUBINI S	P	P	P	P	P	P	P	
68 620623106022 SANGEETHA ROMAND.S I I I I I I I I I I I I I I I I I I I		620623106021	SANDHIYA P	P	P	P	P	P	P	AB	
69 620623106024 SELVA BHARATHT B P	68	620623106022	SANGEETHA KUMARI.S	P	P	P	P	P	P	P	
70 620623106026 SHOODHIN A P P P P P P P P P P P P P P P P P P	69	620623106024	SELVA BHARATHY B	P	P	P	P	P	P	P	
72 620623106029 VIGNESH G P P P P P P P P P P P P P P P P P P	70	620623106026	SHOUDHIRI A	P	P	P	P	P	P	P	
620623106029 VIGNESH G F F F F P P P P	71	620623106027	SIVANESH B	Р	P	AB	P	P	P	P	
73 620623106030 VIJAYAKUMAR S P P P P P P	72	620623106029	VIGNESH G	P	P	P	P	P	P	P	
- Landers - Land	73	620623106030	VIJAYAKUMAR S	P	P	Р	P	P	P	Р	



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SALEM-636 111



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GCE/MECH/STU/2023-2024/VAC-02

Date: 19/01/2024

CIRCULAR

The Mechanical Department has decided to conduct a value added Course on "TOA11402 - Training on Ansys" for the IV year Mechanical Engineering Students from 28.01.2024 to 25.02.2024 on Sundays only. The course will be trained by the experts. The Interested students have to enroll their name to the program coordinator Mr.I.Angu, Assistant Professor, on or before "23.01.2024"

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Copy to:

- 1. Principal's Office
- 2. IQAC
- 3. Department file







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ACADEMIC YEAR - 2023-2024 (EVEN SEM) VALUE ADDED COURSE

"TOA11402 - TRAINING ON ANSYS"

SYLLABUS

Chapter 1: before you start using Ansys

- a. Introduction to the Finite Element Method
- b. What is the Finite Element Method?
- c. General Steps of the Finite Element Method
- d. Explanation of 1D, 2D and 3D Elements with examples of ANSYS Elements
- e. Need of FEM
- f. Types of analysis that can be done using ANSYS
- g. Advantages of the Finite Element Method
- h. Limitations of FEA
- i. About ANSYS Inc.
- j. ANSYS Family of products with their capabilities
- k. Types of analysis that can be done with ANSYS.
- I. Introduction to the Ansys GUI
- m. Operation Modes of Ansys

Chapter 2: Selection Logic

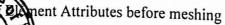
- a. Pan-Zoom-Rotate
- b. Picking
- c. Coordinate Systems

Chapter 3: Solid Modeling

- a. An Overview of Solid Modeling Operations
- b. Working with Boolean operations
- c. Working Plane
- d. Importing of 3D models

Chapter 4: Meshing

- a. Free meshing or Mapped meshing
- b. Setting Element Attributes
- c. Selecting Element Type
- d. Shape Function
- e. Defining Element Types
- ection Properties





- h. Mesh Controls
- The ANSYS Mesh Tool
- 1. Smart sizing
- k. Meshing
- Free Meshing

Chapter 5: Material Properties

- a. Material Library
- b. Specifying properties

Chapter 6: Boundary Conditions

- a. Types of Loads
- b. Applying loads

Chapter 7: Solvers

- a. Types of Solvers
- b. Solver Setup
- e. Load Step Options
- d. Solving Multiple Load Steps

Chapter 8: Post-processing

- a. Contour Plot Viewing
- b. Time History Postprocessor (POST26)
- c. Report Generator

Chapter 9: Introduction to Non-Linear Analysis

Chapter 10: Sample Structural Analysis

a. Workshop

Chapter 11: Sample Thermal Analysis

a. Workshop

Chapter 12: Sample Modal Analysis

a. Workshop

Chapter 13: Tips & Tricks

- a. Using the Toolbar & Creating Abbreviations
- b. Introduction to APDL
- c. Using Parameters
- d. Using the Start File
- e. Using the Session Editor
- f. Using Input Files

Chapter 14: ANSYS Workbench

- a. Introduction to ANSYS Workbench
- b. Graphical User Interface
- c. Static Structural Analysis
- d. Modal Analysis
- e. Thermal Analysis
- f. Contact Recognition

Program Coordinator



N. Jam



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ACADEMIC YEAR - 2023-2024 (EVEN SEM)

VALUE ADDED COURSE ON

"TOA11402 - TRAINING ON ANSYS"

PROGRAM REPORT

The Department of Mechanical Engineering, Ganesh College of Engineering encouraged a Value Added Course on "TOA11402 - Training on Ansys". Dr.N.Senthilkumar, HOD, Department of Mechanical Engineering made the welcoming address at 10 AM. On the first day of the course.

It looks place over the course of 30 hours on Sundays. Form 28/01/2024 to 25/02/2024 in our college premises.

Mr.D.Suresh kumar, Manager (Education & Training), CMC Academy taught about simulation, analysis and its applications. This certificate programme adheres to a syllabus that was established as the beginning and finish of the training part. On 25.02.2024, the course Assessment was completed using a questionnaire that included 20 questions concerning the course material. Students were appreciated with the course completion certificate.

The feedback was collected from the participants.

At the end of this course, the students were able to simulate the models from the projects.



Program Coordinator



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VALUE ADDED COURSE - "TOA11402 - TRAINING ON ANSYS"

CERTIFICATE COURSE; STUDENT PARTICIPATION LIST

S.No	Name of the Student	Reg. Number	Remarks
1	BOOPALAN M	620620114001	Marchan
2	ISRAVEL PRASANNA K	620620114003	-Kamle
3	JEEVA A	620620114004	Jeorge A
4	KALAIVANAN G	620620114005	Citaley Van
5	LOGANATHAN S	620620114006	Logentran
6	MAHESWARAN V	620620114007	Maline.
7	NAVEEN K	620620114009	Navaon Ic
8	RAMANA V	620620114012	Conor.
9	SAKTHIVEL K	620620114013	Selfhire 12
10	SHARAN	620620114016	- Shorm
11	VELAN V	620620114018	Octon V
12	VIGNESH T	620620114019	T.V Drula
13	ARAVINTH M	620620114302	Many anni
14	BALAJI J	620620114304	33B-lan
15	BHARATH J	620620114306	Bharth
16	JEROSLINTONY A	620620114307	- FOROS Town. A.
17	KABILAN K R	620620114308	Lobelant D
18	KAVINRAJ P	620620114309	Preumzzi
19	NANTHA KUMAR G	620620114312	Non taximos.
20	NARESH K	620620114314	narshile.
21	RAGHUL K	620620114316	Frequent
22	RANJITH S	620620114317	PANITALL
23	SUBASH F	620620114318	- F. Sucalla
24	YOGESHWARAN V	620620114321	Mehenten
25	TAMILARASAN MB	620620114501	origi Come

Course Coordinator

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ACADEMIC YEAR - 2023-2024 (EVENT SEM)

VALUE ADDED COURSE "TOA11402 - TRAINING ON ANSYS"

FEEDBACK QUESTIONNAIRE (PLEASE TICK THE APPROPRIATE ANSWER)

Name of the participants:

Year: IV

- 1. Was the presentation clear and relevant to the topic? Yes/No
- 2. Was the session well organized?
- 3. Was the course material provided sufficient and relevant?
- 4. Was the expert member capable of delivering the contents clearly?
 Yes/No
- 5. Would you like to attend similar type of course again in the future?

 Yes/No

Comments:

Naveen Ve Signature of the participants







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ACADEMICYEAR:2023-2024 (EVENSEM)

CERTIFICATE COURSE ON

"TOA11402-TRAININGONANSYS"

OUTCOME OF THE PROGRAM

- > Introduce to the Finite Element Analysis (FEA)concepts and make familiar with the tools and techniques of the ANSYS software package.
- > ThisCertificateCourseaimsatprovidingcompletehands-ontrainingonFEAanalysis.
- > The Certificate Course will help the participants to develop expertise on various aspects of ANSYS for FEA applications.
- > The Certificate Course serves the purpose of bringing together the engineers from various domains such as Structural, Thermal and Fluid Dynamics fields.

Program Coordinator

I. Am HoD







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CERTIFICATE COURSE -ACADEMIC YEAR – 2023- 2024 (EVEN SEM) VALUE ADDED COURSE - "TOA11402 - TRAINING ON ANSYS"

STUDENT ATTENDANCE PARTICULARS COURSE TIMING (10.00AM TO 04.00PM)

S.NO	REG.NUMBER	NAME OF THE STUDENT	28/01/2024	04/02/2024	11/02/2024	18/02/2024	25/02/2024
1	620620114001	BOOPALAN M	P	P	P	P	P
2	620620114003	ISRAVEL PRASANNA K	P	P	P	P	P
3	620620114004	JEEVA A	P	P	P	P	P
4	620620114005	KALAIVANAN G	P	P	P	P	P
5	620620114006	LOGANATHAN S	P	P	P	P	P
6	620620114007	MAHESWARAN V	P	P	P	P	P
7	620620114009	NAVEEN K	P	P	P	P	P
8	620620114012	RAMANA V	P	P	P	P	P
9	620620114013	SAKTHIVEL K	P	P	P	Р	P
10	620620114016	SHARAN	P	P	Р	P	P
11	620620114018	VELAN V	P	Р	P	P	P
12	620620114019	VIGNESH T	P	P	P	P	Р
13	620620114302	ARAVINTH M	P	P	P	P	P
14	620620114304	BALAJI J	P	P	P	P	Р
15	620620114306	BHARATH J	P	P	P	P	P
16	620620114307	JEROSLINTONY A	P	P	P	P	P
17	620620114308	KABILAN K R	P	P	P	P	P
18	620620114309	KAVINRAJ P	P	P	P	P	P
19	620620114312	NANTHA KUMAR G	P	P	P	P	P
20	620620114314	NARESH K	P	P	P	P	P
21	620620114316	RAGHUL K	P	P	P	P	P
22	620620114317	RANJITH S	P	P	P	P	P
23	620620114318	SUBASH F	P	P	P	P	P
24	620620114321	YOGESHWARAN V	P	P	P	P	P
25	620620114501	TAMILARASAN MB	P	P	P	Po	P
	COURSE C	OORDINATOR	1	9	BY	The state of the s	3800





PRINCIPAL PRINCIPAL Ganesh College of Engineering. Attur Main Road, Mettupatti, SALEM-836 111.



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

Attur Main Raod, Mettupatti, Salem District, Salem pin 636111.

DEPARTMENT OF MECHANICAL ENGINEERING

Certificate

This is to certify that Mr./Ms MAHESWARAN.V (IV-YEAR) has successfully completed the course on "TOA11402 - Training on Ansys" offered by the Department of Mechanical Engineering, Certificate Course during the academic year 2023- 2024.

CO-ORDINATOR



PRINCIPAL



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Attur Main Raod, Mettupatti, Salem District, Salem pin 636111.

DEPARTMENT OF MECHANICAL ENGINEERING

Certificate

This is to certify that Mr./Ms BOOPALAN .M (IV-YEAR) has successfully completed the course on "TOA11402 - Training on Ansys" offered by the Department of Mechanical Engineering, Certificate Course during the academic year 2023- 2024.

CO-ORDINATOR



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GCE/MECH/STU/2023-2024/VAC -01

DATE: 01.8.2023

CIRCULAR

The Mechanical Department has decided to conduct a value added Course Program on" PDUC11401 - Product Design using Creo" for the III & IV year Mechanical Engineering students from 06.08.2023 to 10.09.2023 on Sundays. The Course will be trained by the experts. Interested students have to enroll their name to the program coordinator Mr.S.Sivakumar, Asst. Prof/Mech on or before "03.08.2023".

Copy to:

- 1. Principal's Office
- 2. IQAC
- 3. Department file

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ACADEMIC YEAR- 2023-2024 (ODD) VALUE ADDED COURSE PRODUCT DESIGN USING CREO SYLLABUS

Section -1

Introduction to Creo Parametric , parametric Nature, File Menu options Managing Files Menu Manager Model Tree, Understanding the functions of the Mouse Buttons , Ribbon Toolbars Navigator, Creo Parametric Browser Appearance Gallery Rendering in Creo Parametric , Colour Scheme Used in this Book. Sketch Mode Environment, Drawing a line, Centerline, Geometry centerline, Rectangle Ellipse, Dimensioning a Sketch Using the normal Tool Linear Dimensioning of a line.

Section -2

Creating Sketches: - Creating Fillets, Circular Fillets, Elliptical, Fillets, Creating Base Features Invoking the part Mode the Default Datum planes Creating a protrusion, Extruding a Sketch, Revolving a Sketch, Understanding the Orientation of Datum planes, parent—child Relationship,. Implicit Relationship, Explicit Relationship, Nesting of Sketches.

Section -3

Default Datum Planes Need for Datums in Modeling Selection Method in creo Parametric Datum Options, Datum Planes, Creating Datum Planes, Datum Planes created On –The –Fly, Datum Axes, Datum points Creating Cuts, Removing Material by using the Extrude Tool, Options Aiding Construction of parts creating Holes, Creating Rounds, Creating Basic Rounds.

Section -4

Creating Feature Patterns, Copying Features, Refs Mirror, Section of a solid Models, Works Region Method, Sweep Features, Thin sweep Protrusion, Sweep Cut, Blend General Blend Vertex., shell Feature, Constant Thickness Shell, Thickness shell, Datum curves, Curve Button, Project option, wrap Option.

Section -5

Assembly Modeling, Top –Down Assemblies, Components in the Assembly Model, Assembling Components, 3D Dragger, Applying constraints Status Area Placement Tab, Packaging components, Creating Simplified Representations redefining the components of an Assembly reordering components Suppressing /Resuming components replacing.

Section -6

Surface modeling, Creo Parametric, Extruded Surface creating a Revolved surface creating a Sweep, t blend surface creating a Helical Sweep Surface, Blending the boundaries, Style Environment of creo parametric, style Dashboard. Introduction to sheet metal, Mode, Planer wall, Revolve Wall, offset wall, Flat wall, Twist wall, Flange wall, bend back, sheet metal part, cuts in the sheet metal components.

Program Coordinator

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N. Dard



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ACADEMIC YEAR- 2023-2024 (ODD SEM)

VALUE ADDED COURSE ON PRODUCT DESIGN USING CREO FEEDBACK QUESTIONNAIRE (PLEASE TICK THE APPROPRIATE ANSWER)

Nama	of the	partici	nant.
Name	or the	partici	pant.

1. Was the presentation clear the relevant to the topic?

Vac/No

2. Was the Session well organized?

Yes/No

3. Was the course material provided sufficient and relevant?

Yes/No

4. Was the expert member capable of delivering the contents clearly?

Yes/No

5. Would you like to attend a similar type of course again in the future?

Yes/No

Comments:

Silomborgan. S Signature of the participant





Class: III & VI YEAR



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VALUE ADDED COURSE ON PRODUCT DESIGN USING CREO

CERTIFICATE COURSE: STUDENT PARTICIPATION LIST

S.No	Name of the Student	Reg. Number	Remark
	ARAVINDHAN M	620621114001	W. Bur.
2	CHANDRU K	620621114004	12 chan
3	HIRUBAKARAN B	620621114007	=H-18Woon
-1	MANO V	620621114010	MACI
5	MANOJKUMAR T	620621114011	-t. Manifeum
6	MEIYARASU S	620621114012	me yerle
7	MUTHUKUMARAN R	620621114014	RINGTHUKUMON.
8	PANDIDURALA	620621114018	Apu.
9	PRASANTH K	620621114019	1c. Pocrarler.
10	REMO S	620621114020	K. Jani).
11	SARATHKUMAR M	620621114021	Missing
12	TAMIL K	620621114025	sigani).
13	YUGENDRAN K	620621114030	k, Julankur-
14	KALAIVANAN P	620621114302	Colonalos
15	SILAMBARSAN S	620621114304	Silamboran
16	SETHUPATHI G	620621114303	Samuelini
17	BOOPALAN M	620620114001	Surpalin
18	ISRAVEL PRASANNA K	620620114003	1758 un VIII
19	JEEVA A	620620114004	Asseem
20	KALAIVANAN G	620620114005	belown 11
21	LOGANATHAN S	620620114006	Learnather
22	MAHESWARAN V	620620114007	Machos cross
23	NAVEEN K	620620114009	Navan D.
24	RAMANA V	620620114012	Kr Naneya.
25	SAKTHIVELK	620620114013	Rothive
26	SHARAN	620620114016	- Charow
27	VELAN V	620620114018	c hovre
28	VIGNESHT	620620114019	Dela.
29	ARAVINTH M	620620114302	W. Jesmoth
30	BALAJI J	620620114304	Balani
31	BHARATH J	620620114306	Balory
$\frac{31}{32}$	JEROSLINTONY A	620620114307	A. Jasslanton
33	KABILAN K R	620620114308	1-PCorpium
34	KAVINRAJ P	620620114309	Faringen
35	NANTHA KUMAR G	620620114312	wanting tremon
36	NARESH K	620620114314	LATONEXU.
$\frac{-30}{37}$	RAGHUL K	620620114316	Des - Colo
38	RANJITH S	620620114317	Damid
39	SUBASH F	620620114318	f. Sugaru
40	YOGESHWARAN V	620620114321	Yogelwham!
	TAMILARASAN MB	620620114501	Meton
41	TAMILAKASAN MD	020020114301	I IVan Lus

Course Coordinator





PRINCIPAL
Ganesh College of Engineering.
Attur Main Road, Mettupatti,
SALEM-636 111.



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E-Mail: principal@ganeshenggcollege.org www.ganeshenggcollege.org

ACADEMIC YEAR - 2023-2024 (ODD SEM)

PDUC11401 - VALUE ADDED COURSE ON PRODUCT DESIGN USING CREO

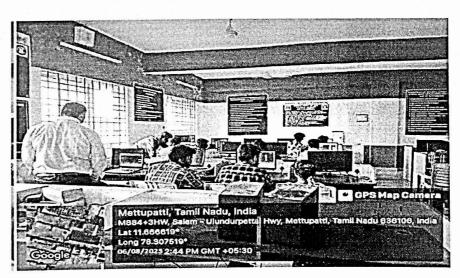
PROGRAM REPORT

The Ganesh College of Engineering Department of Mechanical Engineering sponsored a value added course titled "PDUC11401 - Product Design using Creo". On the first day of the course, Dr.N.Senthilkumar, HoD - Department of Mechanical Engineering, gave the welcome talk at 10 a.m.

It look place in our college ground a over the period of 30 hours on Sunday, form 06/08/2023 to 10/09/2023.

Mr.S.Karaiadiselvan, Managing Director, CADD Centre, taught about product design using CREO and its applications. This Value Added Course follows a set of guidelines that define the beginning and end of the training period. The course Assessment was performed on September 10, 2023 utilizing a questionnaire that comprised 25 questions concerning the course material. Around 41 Third & Final year mechanical engineering students finished the course satisfactorily. The students were appreciated with the course completion certificate. The feedback was collected from the participants and resource persons.

At the end of this course, the students were able to create a prototype model in all types of mechanical component projects.









N. Dann



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ACADEMICYEAR:2023-2024 (ODDSEM)

CERTIFICATE COURSE ON

PDUC11402-PRODUCTDESIGNUSINGCREO

OUTCOME OF THE PROGRAM

The participants will be able to:

- > Understand the concepts of CAD and CAD tools,
- > Design and create Part Models and Assembly Models,
- > Understand concepts of 3D Modeling: Concepts, Wireframe, Surface, and Solid Design and
- > Drafting of Part Modeling and Assemble Modeling's in 2Dand3D.

Program Coordinator

HoD Am







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CERTIFICATE COURSE -ACADEMIC YEAR – 2023- 2024 (ODD SEM)

PDUC11401 - PRODUCT DESIGN USING CREO STUDENT ATTENDANCE PARTICULARS

COURSE TIMING (10.00AM TO 4.00PM)

CNO	REG.NUMBER	NAME OF THE STUDENT	06/08/2023	13/08/2023	20/08/2023	27/08/2023	03/09/2023	10/09/2023
S.NO	620621114001	ARAVINDHAN M	P	P	P	P	P	P
2	620621114004	CHANDRU K	P	P	P	P	P	P
3	620621114007	HIRUBAKARAN B	P	P	P	P	P	P
4	620621114010	MANO V	P	P	P	P	P	P
5	620621114011	MANOJKUMAR T	P	P	P	P	P	P
6	620621114012	MEIYARASU S	P	P	P	P	P	P
7	620621114014	MUTHUKUMARAN R	P	P	P	P	P	P
8	620621114018	PANDIDURAI A	P	P	P	P	P	P
9	620621114019	PRASANTH K	P	P	P	P	P	P
10	620621114020	REMO S	P	P	P	P	P	P
11	620621114021	SARATHKUMAR M	P	Р	P	P	P	P
12	620621114025	TAMIL K	P	P	P	P	P	P
13	620621114030	YUGENDRAN K	P	P	P	P	P	P
14	620621114302	KALAIVANAN P	P	P	P	P	P	P
15	620621114304	SILAMBARSAN S	P	P	P	P	P	P
16	620621114303	SETHUPATHI G	P	P	P	P	P	P
17	620620114001	BOOPALAN M	P	P	P	P	P	P
18	620620114003	ISRAVEL PRASANNA K	P	P	P	P	P	P
19	620620114004	JEEVA A	P	P	P	P	P	P
20	620620114005	KALAIVANAN G	P	P	P	P	P	P
21	620620114006	LOGANATHAN S	P	P	P	P	P	P
22	620620114007	MAHESWARAN V	P	P	P	P	P	P
23	620620114009	NAVEEN K	P	P	P	P	P	P
24	620620114012	RAMANA V	P	P	P	P	P	P
25	620620114013	SAKTHIVEL K	P	P	P	P	P	P
26	620620114016	SHARAN	P	P	P	P	P	P
27	620620114018	VELAN V	P	P	P	P	P	P
28	620620114019	VIGNESH T	P	P	P	P	P	P
29	620620114302	ARAVINTH M	P	P	P	P	P	P
30	620620114304	BALAJI J	P	P	P	P	P	P
31	620620114306	BHARATH J	P	P	P	P	P	P
32	620620114307	JEROSLINTONY A	P	P	P	P	P	P
33	620620114308	KABILAN K R	P	P	P	P	P	P
34	620620114309	KAVINRAJ P	P	P	P	P	P	P
35	620620114312	NANTHA KUMAR G	P	P	P	P	P	P
36	620620114314	NARESH K	P	P	P	P	P	P
37	620620114316	RAGHUL K	P	P	P	P	P	P
38	620620114317	RANJITH S	P	P	P	P	P	P
39	620620114318	SUBASH F	P	P	P	P	P	P
40	620620114321	YOGESHWARAN V	P	P	P	P	P	P
41	620620114501	TAMILARASAN MB	P	P	P	P	P	P
		COORDINATOR	Mas	Liga	Sus	18 kus	Steep	Suns

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Attur Main Raod, Mettupatti, Salem District, Salem pin 636111.

DEPARTMENT OF MECHANICAL ENGINEERING

Certificate

This is to certify that Mr./Ms BALAJI .J (IV-YEAR) has successfully completed the course on "PDUC11401 - Product Design using Creo" offered by the Department of Mechanical Engineering, Certificate Course during the academic year 2023- 2024.

CO-ORDINATOR



PRINCIPAL



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DEPARTMENT OF MECHANICAL ENGINEERING

Certificate

This is to certify that Mr./Ms MANOJKUMAR .T (III-YEAR) has successfully completed the course on "PDUC11401 - Product Design using Creo" offered by the Department of Mechanical Engineering, Certificate Course during the academic year 2023- 2024.

CO-ORDINATOR



PRINCIPAL



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GEC/BME/2023-2024/CC4

DATE: 08/09/2023

CIRCULAR

The BME Department has decided to conduct a certificate course on "Calibration of medical Equipment" the medical Concepts for third year students from 10/09/2023 to 22/10/2023 (All Sundays). Interested students have to enroll their name to the program coordinator P.Amuda Priya Dharshinee, AP/BME on or before 30.08.23.

Copy to:

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- 2. IQAC
- 3. Concerned Department Heads

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Syllabus

MODULE-I

Generalized Instrumentation System-General properties of input transducer - Static Characteristics- Accuracy, Precision - Resolution-Reproducibility, Sensitivity, Drift, Hysteresis - Linearity, Input Impedance and Output Impedance. Dynamic Characteristics: First Order and Second Order Characteristics, Time Delay, Transfer Function – First and Second Order Systems.

MODULE-II

Temperature transducers- thermo resistive transducers, thermoelectric, Displacement transducers - potentiometric, resistive strain gauges, inductive displacement, and capacitive displacement transducer. Pressure transducer-indirect method - measurement of blood pressure using sphygmomanometer - piezoelectric type - catheter tip transducers - measurement of intracranial pressure - catheter tip-implantable type - Optical Sensors.

MODULE-III

Electrodes- Electrolyte Interface - Half Cell Potential - Polarization, Polarizable and Non Polarizable, Electrodes - Calomel Electrode - Electrode Circuit Model- Electrode Skin Interface and Motion Artifact - Body Surface Electrodes- Ion exchange membrane electrodes, oxygen electrodes, CO2 electrodes enzyme electrode - ISFET for glucose - urea.







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INTERNET OF THINGS CONCEPT COMPUTING

CERTIFICATE COURSE; STUDENT PARTICIPATION LIST

S.No	Reg.Number	Name of the Students	Remarks
1	620621121003	AGALYA.K	ic Agreyo.
2	620621121005	ANITHA.A	A. Anith
3	620621121006	ANUSUYA.S	S. Ahusul
4	620621121008	ARIVUMATHI.M	H. Arice
5	620621121009	ARTHI.R	R. Anithy
6	620621121010	BARATHKUMAR.T	T. Barafife
7	620621121011	BLESSY.S	
8	620621121014	GOPIKA.B	B. Gopis
9	620621121015	GOPIKRISHNAN.E	Gopi Krahen.
10	620621121016	GOWRI.A	Gowi
11	620621121018	JANANI.N	Janani
12	620621121021	KARTHIKEYAN.B.K	Br Count
13	620621121023	KAVINILA S	Kavinla.
14	620621121026	KOWSALYA.M	Kowsahn.
15	620621121028	LAVANYA.S	/avars
16	620621121029	MAHALAKSHMI.R	relieb
17	620621121032	NANDHINI.C	Nardhini C
18	620621121033	NAVEEN.P	Davocen
19	620621121034	NITHIYAPRIYA.D	1 Huesperyes
20	620621121035	PERUMAL.M	Desurnal M
21	620 46E 85 EAG	PONMANI STAND	Pormon.
22	62 8 ISA	PRAVEENK LARAC	

23	620621121038	PREMA RANI.P	Phone
24.	620621121039	RAJESH.R	1.00/
25	620621121042	SANDHIYA.K	Pajest.
26	620621121043	SANDHIYA.S	Janahya Ad
27	620621121044	SANGARANARAYANAN.B	So
28	620621121045	SANJAY.S	44
29	620621121046	SARADHAPRIYA.S	Parale pry 4.
30	620621121048	SATHYA.R	Soure.
31	620621121049	SEVVANTHI.S	Levonti
32	620621121050	SIVASAKTHI.S	8)28#S
33	620621121052	SURIYA.A.M	AH. Quy.
34	620621121053	SURIYA.V	Suriya. V
35	620621121054	SWATHI.T	T. Swathi
36	620621121055	THAMARAISELVAN.G	thanks !
37	620621121056	THOLKAPPIYAN.A	Tholderpy.
38	620621121057	VAITHEESWARAN.P	ent'
39	620621121058	VASUKI.M	vanh.
40	620621121059	VINOTHA.A	Well A.
41	620621121060	VINOTHINI.V	a) Bondal)

Course Co-Ordinator





Principal PRINCIPAL
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CCBME04- CALIBRATION OF MEDICAL EQUIPMENT

FEEDBACK QUESTIONNAIRE

(PLEASE TICK THE APPROPRIATE ANSWER)

Class: III-BME Name of the participant: AGALYA.K

- 1. Was the presentation clear and relevant to the topic? Yes/No
- 2. Was the session well organized?

Yes/No

- 3. Was the course material provided sufficient and relevant? Yes/No
- 4. Was the expert member capable of delivering the contents clearly? Yes/No
- 5. Would you like to attend similar type of course again in the future? Yes/No

Comment









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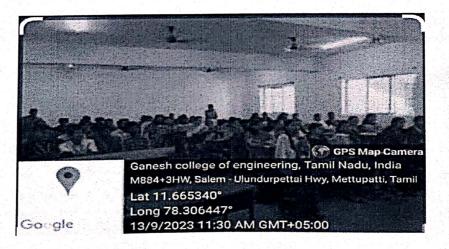
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ACADEMIC YEAR 2023-2024 (EVEN SEM) CERTIFICATE COURSE CCBME04- CALIBRATION OF MEDICAL EQUIPMENT PROGRAM REPORT

Resource Person: 1. Mr.M.Ezhumalai

2. Mr.P.Selvam

The Department of Biomedical Engineering, Ganesh College of Engineering organized a certificate course on CCBME04- Calibration of medical equipment. The Course Commenced on 30.08.2023 and was Conducted during the weekends from 10/09/2023 to 22/10/2023 for the duration of 30 hours. P.Amuda Priya Dharshinee, Asst.Prof/BME initiated the course by giving a brief Introduction on Calibration of medical equipment concept. The course covered the medical equipment during the theoretical Sessions. During the Hands-on-sessions. Programming and medical coding communication. The course Assessment was conducted on 10.09.2023 in a MCQ pattern based on the topic covered. Around 41 students of ECE (UG) completed the course. The students were highly benefited by theoretical and practical aspects of the course. The students showed their interest in learning the course. The feedback on the course conducted was collected from the participants by M.Poontamilselvi AP/BME at the end of the Session.





Course Coordinator



A. Keerie Head of the Department



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ACADEMIC YEAR 2023-2024 (EVEN SEM)

CERTIFICATE COURSE

CCBME04- CALIBRATION OF MEDICAL EQUIPMENT

PROGRAM OUTCOME

Patient safety

Calibrating medical equipment ensures accurate readings from diagnostic instruments like X-ray machines, CT scanners, and MRI machines. This helps to reduce the risk of misdiagnosis, unnecessary or harmful treatments, and patient harm.

Accurate readings

Calibration helps to ensure that the data collected by the device is accurate. For example, if a pH meter is not properly calibrated, it may give readings that are too high or too low.

Reliable results

Proper calibration is the first step to producing reliable results and assuring good instrument performance.

Other benefits

Avoiding sudden maintenance, replacements, and errors

Economical use of raw materials without generating waste

Showing everyone involved how to maintain accuracy throughout the stages of testing

Course Co-Ordinator





HOD HOD





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CERTIFICATE COURSE = ACADEMIC YEAR 2023-2024 (EVEN SEM) CCBME04- CALIBRATION OF MEDICAL EQUIPMENT STUDENT ATTENDANCE PARTICULARS COURSE TIMING – 10 AM TO 4 PM

S.N O	REG.NO	NAME OF THE STUDENT	10.09.2023	17.09.2023	24.09,2023	1.10.2023	8.10.2023	15.10.2023	22.10.2024	Remarks
1	620621121003	AGALYA.K	Р	AB	P	Р	Р	AB	P	
2	620621121005	ANITHA.A	P	P	p	P	AB	P	P	
	620621121006	ANUSUYA.S	P	P	P	P	P	P	Р	
3	620621121008	ARIVUMATHI.M	P	P	AB	Р	P	Р	Р	
5	620621121009	ARTHI.R	P	P	P	AB	Р	Р	P	
6	620621121010	BARATHKUMAR.T	P	P	P	P	Р	P	P	
7	620621121011	BLESSY.S	P	P	P	р	Р	P	P	
8	620621121014	GOPIKA.B	P	P	— <u> </u>	Р	AB	P	P	
9	620621121015	GOPIKRISHNAN.E	AB	AB	Р -	P	Р	P	P	
10	620621121016	GOWRI.A	P	P	P	P	P	P	P	
11	620621121018	JANANI.N	P	P	P	P	P	Р	Р	
12	620621121021	KARTHIKEYAN.B.K	P	P	P	P	P	P	P	
13	620621121023	KAVINILA S	P	P	P	P	P _	P	P	
14	620621121026	KOWSALYA.M	P	P	P	P	P	P	AB	
15	620621121028	LAVANYA.S	P	AB	P	AB	P	P	P	
16	620621121029	MAHALAKSHMI.R	P	P	P	P	P	P	P	
17	620621121032	NANDHINI.C	P	P	P	P	P	P	P	
18	620621121033	NAVEEN.P	P	P	P	P	P	P -	P-silve	
19	620621121034	NITHIYAPRIYA.D	AB	P	P	P	P	P	P	
20	620621121035	PERUMAL.M	Р	P	P	P	P	P	P	
21	620621121036	PONMANI SELVAN.V	P	P	$ _{\mathbf{P}}$	P	AB	P	P	
22	620621121037	PRAVEENKUMAR.K	P	P	P	P	P	P	P	
23	620621121038	PREMA RANI.P	P	P	P	P	P	P	P	
24	620621121039	RAJESH.R	P	AB	P	P	P	P	P	
25	620621121042	SANDHIYA.K	P	P	<u>P</u>	P	AB	Р	P	
26	620621121043	SANDHIYA.S	P	P	P	P	P	P	P	
27	620621121044	SANGARANARAYA NAN.B	P	AB	P	P	P	P	Р	
28	620621121045	SANJAY.S	P	P	AB	P	P	P	P	
29	620621121046	SARADHAPRIYA.S	P	P	P	P	Р	P	P	
30	620621121048	SATHYA.R	P	AB	P	P	P	P	P	
31	620621121049	SEVVANTHI.S	P	P	<u>P</u>	Р	OF ENG	AB	P	





32	620621121050	SIVASAKTHI.S	P		D	p	P	P	P	
33	620621121052	SURIYA.A.M	p	P	-Anthrope Lands Lands Con-	P	D	Р	Р	
34	620621121053	SURIYA.V	P	. P	P	P	D	P	AB	
35	620621121054	SWATHI.T	P	P	AB	P P	P	Р	Р	
36	620621121055	THAMARAISELVAN. G	P	P	P P	P	AB	P	P	
37	620621121056	THOLKAPPIYAN.A	Р	p	P	P	P	Р	Р	
38	620621121057	VAITHEESWARAN.P	AB	Р	P	P	P	P	P	
39	620621121058	VASUKI.M	P	p	AB	. т	P	Р	AB	
40	620621121059	VINOTHA.A	P	P	AB P	P	P	P	P	
41	620621121060	VINOTHINI.V	P	P	P	P	AB	P	P	

HOD -

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GEC/BME/2023-2024/CC8

DATE: 08/02/2024

PRINCIPAL
Ganesh College of Engineering.

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CIRCULAR

The BME Department has decided to conduct a certificate course on "Biomedical instrumentation" medical Concepts the Second year students from 11/02/2024 to 31/03/2024 (All Sunday). Interested students have to enroll their name to the program coordinator Amuda Priya Dharshini, AP/BME on or before 08.01.2024.

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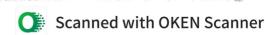
1. Principal's Office

2. IQAC

3. Concerned Department Heads









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E-Mail: grincipal@ganeshenggcoflege.org www.ganeshenggcoflege.org

Syllabus

MODULE-I

Bio signals characteristics — Origin of bio potential and its propagation. Frequency and amplitude ranges. Electrode configurations: Electrode-electrolyte interface, electrode-skin interface impedance, polarization effects of electrode — non-polarizable electrodes. Unipolar and bipolar configuration-classification of electrodes.

MODULE-II

Bio signals characteristics – ECG-frequency and amplitude ranges – Einthoven's triangle, standard 12 lead system. EEG – EEG – 10-20 electrode system, unipolar, bipolar and average mode. EMG– unipolar and bipolar mode. EMG - Electrode configuration – unipolar and bipolar mode.

MODULE-III

Need for bio-amplifier - Differential bio-amplifier - Single ended amplifier - Band pass filtering, isolation amplifiers - transformer and optical isolation - isolated DC amplifier and AC carrier amplifier-Chopper amplifier- Power line interference.







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BIOMEDICAL INSTRUMENTATION

CERTIFICATE COURSE; STUDENT PARTICIPATION LIST

S.NO	REGISTER NO	NAME LIST	SIGNATURE
1	620623121001	ABINAYA.M	Abinaya.
2	620623121002	BOOMIKA.B	Boomica.
3	620623121003	BRUNDHA.G	Ew
4	620623121004	CHAKRAVARTHI.K	chole 1.
5	620623121005	DEEPIKA.K	Desplie
6	620623121006	DHARANI.S	S. Phomani
7	620623121007	DHARSHINI.E	Dane.
8	620623121009	DHIVAGAR.D	D. Dhowall
9	620623121010	ELAVARASI.E	F. Elayman
10	620623121011	IYYAPPAN.P	Elavari
11	620623121012	JANANI.P	Janen.
12	620623121013	JEEVA.M	Jewa
13	620623121014	JEEVITHA.P	Jeoul.
14	620623121015	JEEVIYA.I	Jeon'yes.
15	620623121016	KATHIR.K	Katein
16	620623121017	KIRUTHIGA.K	K. Kristhuan
17	620623121018	MAGESWARI.S	. NIO000).
18	620623121019	MANIRAJ.T	- nlow
19	620623121020	MANIVASAGAN.M	, llass-
20	620623121021	MOHANAPRIYA.K	1XXX
21	620623121022	NANTHINI.K	Nauth.
22	620623121023	NEHA.M	Odle.
23	620623121024	NITHEESH.R	Nitheres &
24	620623121025	NITHISH.S	8 oluthu
25	620623121026	RAJASEKAR.D	Rajarkai
26	620023121027	RAMYA.H	H. Pamen
27	8	SANDHI	Rantoriero
28	2062312	SANTHY R.R. EN	P. Condia
29	2062312153	SANTHUSHVARMAS	20 mt od

30	620623121031	SARAVANAN.M	Danstrant.
31	620623121032	SHAKINA.V	(Ago)
32	620623121033	SHARKESH.V	Sharlooh
33	620623121034	SIVA.N	AvaN
34	620623121035	SIVARANJANI.D	D. Supra
35	620623121036	SOWMIYA.S	A. S. Sowomi
36	620623121037	SUJITHRA.R	Sura.
37	620623121038	SWETHA.P	Suetha
38	620623121040	THIRUVALLARASU.P	Thimallacaer
39	620623121041	UMA.P	€ P.
40	620623121042	VEDHACHALAM.M	John lan

Course Co-Ordinator





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CCBME08- BIOMEDICAL INSTRUMENTATION

FEEDBACK QUESTIONNAIRE

(PLEASE TICK THE APPROPRIATE ANSWER)

Name of the participant: ELAVARASI.E

Class: II-BME

- 1. Was the presentation clear and relevant to the topic?
- 2. Was the session well organized?
- 3. Was the course material provided sufficient and relevant?
- 4. Was the expert member capable of delivering the contents clearly? Yes/No
- 5. Would you like to attend similar type of course again in the future? Yes/No

Comment

Signature of the participant







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ACADEMIC YEAR 2023-2024 (ODD SEM) CERTIFICATE COURSE CCBME08- BIOMEDICAL INSTRUMENTATION PROGRAM REPORT

Resource Person: 1. Mr.M.Rahul

2. Mr.P.Mouleeshwaran

The Department of Biomedical Engineering, Ganesh College of Engineering organized a certificate course on CCBME07- Biomedical instrumentation. The Course Commenced on 08.02.2024 and was Conducted during the weekends from 11/02/2024 to 31/03/2024 for the duration of 30 hours. P.Amuda Priya Dharshinee, Asst.Prof/BME initiated the course by giving a brief Introduction on Biomedical instrumentation concept. The course covered the medical equipment during the theoretical Sessions. During the Hands-on-sessions. Programming and medical coding communication.

The course Assessment was conducted on 11.02.2024 in a MCQ pattern based on the topic covered. Around 40 students of BME (UG) completed the course. The students were highly benefited by theoretical and practical aspects of the course. The students showed their interest in learning the course. The feedback on the course conducted was collected from the participants by M.Poontamilselvi AP/BME at the end of the Session.



Course Coordinator



Head of the Department



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ACADEMIC YEAR 2023-2024 (ODD SEM)

CERTIFICATE COURSE

CCBME08- BIOMEDICAL INSTRUMENTATION

PROGRAM OUTCOME

Physiology and transducers

Cell and its structure, Resting and Action Potential, Nervous system: Functional organization of the nervous system, Structure of nervous system, neurons, synapse, transmitters and neural communication, Cardiovascular system, respiratory system, Basic components of a biomedical system, Transducers, selection criteria, Piezo-electric, ultrasonic transducers, Temperature, measurements - Fiber optic temperature sensors.

Medical Imaging

Radiographic and fluoroscopic techniques, X rays, Computer tomography, Mammography, MRI, FMRI, Ultrasonography, Endoscopy, Thermograph, Different types of biotelemetry systems and patient monitoring.

Non-electrical parameter measurements

Measurement of blood pressure, Cardiac output, Heart rate, Heart sound Pulmonary function measurements, Spyrometer, Photo Plethysmography, Body Plethysmography, Blood Gas analyzers: pH of blood, measurement of blood pCO2, pO2, finger-tipoximeter, ESR, GSR, measurements, Standard HL7.

Course Co-Ordinator





Afoulow



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CERTIFICATE COURSE – ACADEMIC YEAR 2023-2024 (EVEN SEM) CCBME04- CALIBRATION OF MEDICAL EQUIPMENT STUDENT ATTENDANCE PARTICULARS COURSE TIMING - 10 AM TO 4 PM

N	REG.NO	NAME OF THE STUDENT	10.09.2023	17.09.2023	24.09.2023	1.10.2023	8.10.2023	15.10.2023	22.10.2024	Remark
	620621121003	AGALYA.K	Р	AB	P	P	P	AB	P	
	620621121005	ANITHA.A	P	P	P	P	AB	Р	P	
	620621121006	ANUSUYA.S	P	p	P	P	P	P	Р	
	620621121008	ARIVUMATHI.M	P	P	AB	P	P	P	P	
	620621121009	ARTHI.R	P	P	P	AB	Р	P	P	
	620621121010	BARATHKUMAR.T	P	P	$\dot{\mathbf{p}}^{1}$	P	P	P	P	
	620621121011	BLESSY.S	P	P	P	P	P	P	P	
	620621121014	GOPIKA.B	P	P	P	Р	AB	P	P	
	620621121015	GOPIKRISHNAN.E	AB	AB	P	P	Р.	P -	Р	
	620621121016	GOWRI.A	P	P	P	P	P	P	P	
	620621121018	JANANI.N	Р	P	P	P	Р	P	Р	
1	620621121021	KARTHIKEYAN.B.K	P	P	P	P	P	Р	P	
3	620621121023	KAVINILA S	P	P	P	P	P	P	P	
4	620621121026	KOWSALYA.M	P	P	P	P	P	P	AB	152.23
	620621121028	LAVANYA.S	P	AB	P	AB	P	P	P	
5	620621121029	MAHALAKSHMI.R	Р	P	P	P	P	P	γP =	
7	620621121032	NANDHINI.C	Р	Р	P	P	P	P	P	
8	620621121033	NAVEEN.P	P	P	P	p	P	P	Р	
9	620621121034	NITHIYAPRIYA.D	AB	P	P	P	P	P	P	
20	620621121035	PERUMAL.M	P	P	P	P	P	P	P	
21	620621121036	PONMANI SELVAN.V	P	P	P	P	AB	P	P	
22	620621121037	PRAVEENKUMAR.K	P	P	P	P	P	P	P	
23	620621121038	PREMA RANI.P	P	P	P	P	P	P -	P	
24	620621121020	RAJESH.R	P	AB	P	P	·P	P	P	
25	620621121042	SANDHIYA.K	P	P	P	P	AB	P	Р	
26	620621121043	SANDHIYA.S	P	P	P	P	P	P	P	
27	620621121044	SANGARANARAYA NAN.B	P	AB	Р	P	P	P	P	
28	620621121045	SANJAY.S	P	P	AB	P	P	P	P	
29	620621121046	SARADHAPRIYA.S	P	P	P	P	P	P	P	
30	620621121049	SATHYA.R	P	AB	P	P	P	P	P	
31	620621121040	SEVVANTHI.S	Р	P	P	P	P	AB	P	





32	620621121050	SIVASAKTHI.S	P	P	Р	P	Р	P	Р	
33	620621121052	SURIYA.A.M	P	p	P	P	P	P	P	
34	620621121053	SURIYA.V	P	P	AB	P	P	P	AB	
35	620621121054	SWATHI.T	P	P	P	P	P	P	P	
36	620621121055	THAMARAISELVAN.	P	P	P	Р	AB	P	P	
37	620621121056	THOLKAPPIYAN.A	Р	P	P	Р	P	P	P	
38	620621121057	VAITHEESWARAN.P	AB	P	P	P	P	Р	P	
39	620621121058	VASUKI.M	P	P	AB	P	P	P	AB	
40	620621121059	VINOTHA.A	P	P	P	Р	P	P	P	
41	620621121060	VINOTHINI.V	P	P	P	P	AB	P	Р	

A. Keulle





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GCE/IT/STU/2023-2024/VAC01

Date: 22-09-2023

CIRCULAR

The Department has decided to conduct a certificate Course program on "(BC20501-BLOCKCHAIN TECHNOLOGY)" For second year students from 08.10.2023 to 12.11.2023 on every Sundays. Interested students can enroll their name to the program coordinator (Mrs. N.Thenmozhi) on or before 29.09.2023.

Copy to:

- 1. Principal's office
- 2. IQAC
- 3. Department File

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SYLLABUS

SYLLABUS OF THE CERTIFICATE COURSE

MODULE 1:

Overview of Blockchain

Introduction to Blockchain and its Origin, Blockchain is crucial and its objectives, Blockchain terminologies, databases and blockchain, Distributed Ledger, Blockchain ecosystem and structure, Working of blockchain, Types of blockchain.

MODULE 2:

Create & deploy your private Blockchain on MultiChain

Cryptography and Crypto-currency, Anonymity and Pseudonymity in cryptocurrencies

MODULE 3

Delving into Blockchain

The role and property of crypto, Terminology: Alice, Bob, Eve, encrypt, decrypt, cryptography, cryptanalysis, ROTx, substitution cipher, Symmetric encryption: DES, AES

MODULE 4

Hyperledger

Access policy, access control matrix, Oracle authentication: password, Kerberos, Oracle authorization: privileges, roles

MODULE 5

Prospects of Blockchain

Necessity of VPD, How to implement VPD, Problems of VPD, Launch SQL injection attacks, Countermeasures

MODULE 6:

Ethereum

Challenges in outsourced database, Merke Hash Tree, Data confidentiality: relational encryption.

Program Coordinator









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ACADEMIC YEAR 2023-2024(EVEN SEM)

COURSE SCHEDULE

BC20501- BLOCKCHAIN TECHNOLOGY

Date / Hour	1	2	3	4		5	6						
08-10-2023	-10-2023 Overview of Blockchain		blockchain.				Overview of Blockchain and structure, Working of blockchain, Types of blockchain.					Practical S	ession on BC
15-10-2023	private B	deploy your lockchain on tiChain	Cry currency,Ar Pseudor	raphy and /pto- nonymity and nymity in urrencies	CH BREAK	Practical S	ession on BC						
22-10-2023	Delving into Blockchain		The role and	d property of	LUNCH	Practical Session on BC							
29-10-2023	Hyperledger		The state of the s	thorization: ges, roles		Practical S	ession on BC						
05-11-2023	Prospects of	of Blockchain	The second secon	QL injection intermeasures		Practical S	ession on BC						
12-11-2023	Eth	ereum	V. Control of the Con	identiality: encryption		Practical Session on B							







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ACADEMIC YEAR - 2023-2024(EVEN SEM)

CERTIFICATION COURSE

BC20501- BLOCKCHAIN TECHNOLOGY

FEEDBACK QUESTIONAIRE (PLEASE TICK THE APPROPRIATE ANSWER)

NAME (OF THE	PARTICIPANT:	S	AZ.	CI	HIL	V
--------	--------	--------------	---	-----	----	-----	---

CLASS: IT YEAR

1. Was the presentation clear and relevant to the topic?

Yes/No

2. Was the session well organized?

Yes/.No

3. Was the course material provided sufficient and relevant?

Yes/No

4. Was the expert member capable of delivering the contents clearly?

Yes/No

5. Would you like to attend similar type of course again in the future?

Yes/No

Comments:

very wrefull course.

Signature of the Participant







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ACADEMIC YEAR 2023-2024 (EVEN SEM)

BC20501- BLOCKCHAIN TECHNOLOGY

COURSE OUTCOME

- Describe the basic concepts and technology used for blockchain.
- Describe the primitives of the distributed computing and cryptography related to blockchain. Illustrate the concepts of Bitcoin and their usage.
- Implement Ethereum block chain contract.
- Apply security features in blockchain technologies.

• Use smart contract in real world applications.

Program Coordinator







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ACADEMIC YEAR 2023-2024 (EVEN SEM)

BC20501- BLOCKCHAIN TECHNOLOGY

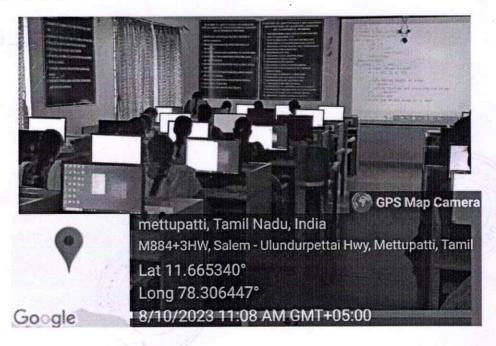
PROGRAM REPORT

The Department of Information Technology, Ganesh College of Engineering organized a Certificate Course on "BC20501- BLOCKCHAIN TECHNOLOGY" The Course was inaugurated on 08.10.2023 10.00 am. Mr.C.SILAMBARASAN, Head, Dept of IT delivered the welcome address. It was conducted during the weekends from 08.10.2023 to 12.11.2023 for the duration of 35 hours.

Mr. P.Tamilarasan, started with introduction about Blackchain Technolgy on 08.10.2023. The course Assessment was carried out on 12.11.2023 (AN) which consists of 25 questions about the topic, discussed. Around 46 students of Second Year IT successfully completed the course. The students were appreciated with the course completion certificate.

The feedback was collected from the participants. Mr.C.SILAMBARASAN, HOD, Dept of IT delivered the vote of thanks at the end of the session.

The students are excited in doing Blockchain Technology after the successful completion of this course.



Program Coordinator







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CERTIFICATE COURSE - ACADEMIC YEAR – 2023-2024(EVEN SEM) BC20501- BLOCKCHAIN TECHNOLOGY STUDENT ATTENDANCE PARTICULARS

S.NO	REG. NUMBER	NAME OF THE STUDENT	8.10.2023	15.10.2023	22.10.2023	29.10.2023	5.11.2023	12.11.2023	Remark
1	620622205001	AARTHI R	P	P	P	P	P	P	
2	620622205002	ALEX V	P	P	P	P	P	P	
3	620622205004	ARUN PRASATH A	P	AB	P_{ι}	P	AB	P	
4	620622205005	ATHISIVAN C	P	P	P	P	P	P	
5	620622205006	CHATHRAPATHI T	P	P	Pξ	P	Ρ.	P	
6	620622205007	The state of the s	P	P	Ρ.	P	P	P	
7	620622205008	DEVAKUMAR S	P	P	P	₄ P	P	P	
8	620622205009	DHANUSH V	P	P	P	¹ AB	P	P	
9.,	620622205010	DHANUSHRAJ K	P	P	P	P	P	P	_s
10	620622205012	ELAKKIA E	P	P	P	P	P	Р	
11	620622205014	GOKULRAJ V	P	P	P	P	P	P	
12	620622205015	GOPINATH B	P	P	P [‡]	P	P	P	
13	620622205016		P	P	P	P	P	P	
14	620622205017	JAGATHEESH A	P	P	P -	P	P	P	
15	620622205018	KARTHICK N	P	P	P	P	P	P	
16	620622205020	LAVANYA D	P	P	P	P	P	P	
17	620622205021	LINGESH V	P	P	P	P	P	P	
18	620622205022	MAHALAKSHMI K	P	AB	P	P	AB	P	
19	620622205023	MANIKANDAN M	P	P	P	P	P	P	
20	620622205024	MANOKARAN K	P	P	P	P	P	P	
21	620622205025	MANUSHVINI S	P	Р	P	P	P	P	
22	620622205027	NISHA U	P	P	Ρ.	P	P	P	
23	620622205028	NITHISHA B	P	P	P	P	P	P	
24	620622205029	PACHAYAPPAN M	P	P	AB	, P	AB	P	
25	620622205030	PRADEEP B	P	Р	P	P	P	P	
26	620622205031	PRAVIN A	P	P	P	P	P	P	
27	620622205032	PREETHI AK	Р	P	P	P	P	P	
28	620622205033	PURUSHOTHAMAN S	P	P	P	P	P	P	
29	620622205034	RADHAKRISHNAN N	P	AB	P	P	P	P	
30	620622205035		P	P	P	P	P	P	-
31		RAMKUMAR M	P	P	P:	P	P	P	
32	620622205039		Р	P	P .	P	P	P	
33	620622205040		P	P	P	P	P	P	
34		SAKTHIVEL E	P	P	P	P	AB	P	
35		SANGARESHWARAN K	P	P	P	P	P	P	
36	620622205043		P	P	P	P	P	P	
37	620622205045		P	P	P	P	P	P	
38	620622205046		P	P	P	P	P	P	
39	620622205048		P	P	P	P	P	P	
40	620622205049	The state of the s	P	AB	P	P	P	P	
41		THAMILSELVAN T	P	P	P	P	P	P	
42	620622205053		P	P	P	P	P	P	
43	620622205054		P -	P	P	P	P	AB	
44	620622205055		P	P	P	P	P	P	
45	620622205056		P	P	P	P	P.	P	
46	620622205701 1		088	P	P.	P	P. P.	P	
	COURSE C		13			Du			
15	10AC		dos	the	Dur	de	Alu	Au	

PRINCIPAL

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CERTIFICATE COURSE - ACADEMIC YEAR - 2023-2024 BC20501- BLOCKCHAIN TECHNOLOGY STUDENTS PARTIPATION LIST

S.NO	REG. NUMBER	NAME OF THE STUDENT	SIGNATURE
1	620622205001	AARTHI R	Aux R
2	620622205002	ALEX V	Not.
3	620622205004	ARUN PRASATH A	Ann. Miera
4	620622205005	ATHISIVAN C	Atherica C
5	620622205006	CHATHRAPATHI T	Amusen
6	620622205007	DEEPIKA K	Deonin-R
7	620622205008	DEVAKUMAR S	Devakumay.S
8	620622205009	DHANUSH V	Dhunes L
9	620622205010	DHANUSHRAJ K	Dhitel. K
. 10	620622205012	ELAKKIA E	Bladibing &
11	620622205014	GOKULRAJ V	uplat rej
12	620622205015	GOPINATH B	Giopinate B
13	620622205016	GUNAL R	Quinal R
14	620622205017	JAGATHEESH A	Tagatheesh. A
15	620622205018	KARTHICK N	Lavrier.
16	620622205020	LAVANYA D	Conomin D.
17	620622205021	LINGESH V	· Lingesh. Y
18	620622205022	MAHALAKSHMI K	Mahal b.C
19	620622205023	MANIKANDAN M	Marikandar. M
20	620622205024	MANOKARAN K	Managar &
21	620622205025	MANUSHVINI S	Manushvins. S
22	620622205027	NISHA U	(Allac)
23	620622205028	NITHISHA B	MINIST
24	620622205029	PACHAYAPPAN M	Dachu. M
25	620622205030	PRADEED B	Pradup

26	620622205031	PRAVIN A	(Dawn A
27	620622205032	PREETHI AK	Preeth Att
28	620622205033	PURUSHOTHAMAN S	Pro188 Frand. 9
29	620622205034	RADHAKRISHNAN N	Radhmi N
30	620622205035	RAGUL SV	Ragul. ox
31	620622205037	RAMKUMAR M	Comberner, NI.
32	620622205039	SABARISH B	Soluth
33	620622205040	SACHIN S	Sachins
34	620622205041	SAKTHIVEL E	Scholing
35	620622205042	SANGARESHWARAN K	Samenerale
36	620622205043	SANJAY K	Lastin #
37	620622205045	SARMILA P	Seamily R
38	620622205046	SIVA S	fore
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PRINCIPAL

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Ganesh College of Engineering,
Attur Main Road, Mettupatti
SALEM-636 111







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GCE/IT/STU/2023-2024/VAC02

Date: 13-02-2024

CIRCULAR

The Department has decided to conduct a certificate Course program on "(IOT20502-INTERNET OF THINGS)" For second year students from 03.03.2024 to 07.04.2024 on every Sundays. Interested students can enroll their name to the program coordinator R. Thivyabharadhi on or before 24.02.2024.

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Copy to:

- 1. Principal's office
- 2. IQAC
- 3. Department File

PRINCIPAL

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SYLLABUS

SYLLABUS OF THE CERTIFICATE COURSE

MODULE 1:

IOT Introduction

IOT enabling technologies,IOT Architecture, Major component of IOT. IOT communication and networking protocols, Role of wired and wireless communication.

MODULE 2:

IOT Security

Attack, Defense, and Network Robustness of Internet of Things, Malware Propagation and Control in Internet of Things, Privacy Preservation Data Dissemination

MODULE 3

IOT Data Acquisition & Platforms

MicroControllers(Arduino uno/mega2560,Rasberry-Pi,ARM), Real-time systems and embedded software, OS and Drivers (End Device Program)

MODULE 4

IOT Data Communication

IEEE 802.15.4, IEEE 802.15.4e, 802.11ah,Relay Access Point (AP),Grouping of station,Target Wake Time (TWT)

MODULE 5

IOT Data Storage & Retrieval

Overview and Role of Storage in Cloud / Server /Inhouse Storage. Databases Connectivity with IOT and uses .

MODULE 6:

IOT Data Analytics & Visualization

Analysis Of data using python Module, Visualization and interpretation of Data, Data Cleaning in IOT

Program Coordinator







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ACADEMIC YEAR 2023-2024

COURSE SCHEDULE

IOT20502- INTERNET OF THINGS

Date / Hour	1	2	3	4		5	6	
03-03-2024 IOT Introduction			ecture, Major ent of IOT		Practical Se	ssion on IOT		
10-03-2024	3-2024 IOT Security			Defense, and Robustness of of Things	AK	Practical Session on IC		
17-03-2024		Acquisition & atforms		systems and ed software	BREAK	Practical Se	ssion on IOT	
24-03-2024	IOT Data (Communication	802 802.11ah,l	2.15.4, IEEE .15.4e, Relay Access at (AP)	LUNCH	Practical Session on IOT		
31-03-2024 IOT Data Storage & Retrieval			Storage	and Role of in Cloud / nouse Storage		Practical Se	ssion on IOT	
07-04-2024	AND AND AND ADDRESS OF THE PARTY OF THE PART	Analytics & alization		zation and tion of Data		Practical Se	ssion on IOT	

Program Coordinator







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ACADEMIC YEAR - 2023-2024(ODD SEM)

CERTIFICATION COURSE

IOT20502- INTERNET OF THINGS

FEEDBACK QUESTIONAIRE (PLEASE TICK THE APPROPRIATE ANSWER)

NAME OF THE PARTICIPANT:	K.	sangarochussan	CLASS:	II - Year
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1. Was the presentation clear and relevant to the topic?

Yes/No

2. Was the session well organized?

Yes/.No

3. Was the course material provided sufficient and relevant?

Yes/No

4. Was the expert member capable of delivering the contents clearly?

Yes/No

5. Would you like to attend similar type of course again in the future?

Yes/No

Comments:

Signature of the Participant







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ACADEMIC YEAR 2023-2024 (ODD SEM)

IOT20502- INTERNET OF THINGS

PROGRAM REPORT

The Department of Information Technology, Ganesh College of Engineering organized a Certificate Course on "IOT20502- INTERNET OF THINGS" The Course was inaugurated on 03.03.2024 10.00 am. Mr.C. Silambarasan, Head, Dept of IT delivered the welcome address. It was conducted during the weekends from 03.03.2024 to 07.04.2024 for the duration of 35 hours.

Mr. P.Meganathan, started with introduction about Internet of Things on 03.03.2024. The course Assessment was carried out on 07.04.2024 (AN) which consists of 25 questions about the topic, discussed. Around 46 students of Second Year IT successfully completed the course. The students were appreciated with the course completion certificate.

The feedback was collected from the participants. Mr.C.Silambarasan, HOD, Dept of IT delivered the vote of thanks at the end of the session.

The students are excited in doing Internet of Things after the successful completion of this course.



Program Coordinator





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ACADEMIC YEAR 2023-2024 (ODD SEM)

IOT20502- INTERNET OF THINGS

COURSE OUTCOME

- Impact and challenges posed by IoT networks leading to new architectural models.
- The smart objects and the technologies to connect them to network.
- Application protocols for IoT.
- Role of Data Analytics and Security in IoT.
- · Sensor technologies for sensing real world entities
- The basic technologies of IoT for developing innovative applications.
- Assess the genesis and impact of IoT applications, architectures in real world.

• Diverse methods of deploying smart objects and connect them to network.

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CERTIFICATE COURSE - ACADEMIC YEAR - 2023-2024(EVEN SEM)

IOT20502 - INTERNET OF THINGS STUDENT ATTENDANCE PARTICULARS

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620622205018	KARTHICK N	P	P	P	P	P	P	
620622205020	LAVANYA D	P	P	P	P	P	P	
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620622205023	MANIKANDAN M	P	AB	P	P	P	P	
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Ganesh College of Engineering, Attur Main Road, Mettupatti, SALEM-636 111.



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Course Coordinator

Principal

PRINCIPAL Ganesh College of Engineering, Attur Main Road, Mettupatti SALEM-636 111





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www.ganeshenggcollege.org

CERTIFICATE COURSE - ACADEMIC YEAR - 2023-2024 IOT20502 - INTERNET OF THINGS

STUDENTS PARTIPATION LIST

S.NO	REG. NUMBER	NAME OF THE STUDENT	SIGNATURE
1	620622205001	AARTHI R	(des.
2	620622205002	ALEX V	that.
3	620622205004	ARUN PRASATH A	ranie.
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GCE/AI&DS/2023-2024/ML01AI

Date: 23-02-2024

CIRCULAR

The Department has decided to conduct a certificate Course program on "(ML01AI–MACHINE LEARNING WITH AI APPLICATIONS)" For Secondyear students from 10/3/2024 to 14/04/2024 on every Sundays. Interested students can enroll their name to the program coordinator (Mrs.V.SOWMIYA, AP) on or before 27.02.2024.

HOD

Copy to:

- 1. Principal's office
- 2. IQAC
- 3. Department File









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SYLLABUS

SYLLABUS OF THE CERTIFICATE COURSE

MODULE 1:

Social Media Features:

Social media platforms use machine learning algorithms and approaches to create some attractive and excellent features. For instance, Facebook notices and records.

MODULE 2:

Product Recommendations:

Product recommendation is one of the most popular and known applications of machine learning. Product recommendation is one of the stark features of almost every e-commerce website today, which is an advanced application of machine learning.

MODULE 3:

Image Recognition:

Image recognition, which is an approach for cataloging and detecting a feature or an object in the digital image, is one of the most significant and notable machine learning and AI techniques.

MODULE 4:

Sentiment Analysis:

Sentiment analysis is one of the most necessary applications of machine learning. AI is a realtime machine learning application that determines the emotion or opinion of the speaker or the write.

MODULE 5:

Automating Employee Access Control:

Organizations are actively implementing machine learning algorithms to determine the level of access employees would need in various areas, depending on their job profiles.

MODULE 6:

Regulating Healthcare Efficiency and Medical Services:

Significant healthcare sectors are actively looking at using machine learning algorithms to manage better. They predict the waiting times of patients in the emergency waiting rooms across various departments of hospitals.

Program Coordinator







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ACADEMIC YEAR 2023-2024

COURSE SCHEDULE

ML01AI-MACHINE LEARNING WITH AI APPLICATIONS

Date / Hour	1	2	. 3	4		5	6
10-03-2024	Social Media Features		algorith	e learning nms and paches		Practical Session on ML	
17-03-2024 Product Recommendations		E-commerce website today, which is an advanced application of machine learning		BREAK	Practical Ses	sion on ML	
24-03-2024	Image R	Lecognition	Machine lea	rning and AI iques.		Practical Ses	sion on ML
31-03-2024 Sentiment Analysis		Emotion or opinion of the speaker or the write.		LUNCH	Practical Ses	sion on ML	
07-04-2024 Automating Employee Access Control		Implementing machine learning algorithms			Practical Ses	sion on ML	
14-04-2024	Regulating Healthcare Efficiency and Medical Services Emergency waiting rooms across variod departments of hospi			oss various		Practical Ses	sion on ML

Program Coordinator







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ACADEMIC YEAR - 2023-2024(ODD SEM)

CERTIFICATION COURSE

ML01AI-MACHINE LEARNING WITH AI APPLICATIONS

FEEDBACK QUESTIONAIRE (PLEASE TICK THE APPROPRIATE ANSWER)

NAME OF THE PARTICIPANT: AKALYA - K	CLASS: I YEAR
1. Was the presentation clear and relevant to the topic?	
Yes/No	

2. Was the session well organized?

Yes/.No

3. Was the course material provided sufficient and relevant?

Yes/No

4. Was the expert member capable of delivering the contents clearly?

Yes/No

5. Would you like to attend similar type of course again in the future?

Yes/No

Comments:

Signature of the Participant







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ACADEMIC YEAR 2023-2024(EVEN SEM)

ML01AI-MACHINE LEARNING WITH AI APPLICATIONS

PROGRAM REPORT

The Department of Computer Science and Engineering, Ganesh College of Engineering organized a Certificate Course on "ML01AI-MACHINE LEARNING WITH AI APPLICATIONS" The Course was inaugurated on 10.03.2024 10.00am. Mrs.D.Latha, Head, Dept of AI&DS delivered the welcome address. It was conducted during the weekends from 10.03.2024 to 14.04.2024 for the duration of 35 hours.

Mr.A.Aruna, started with introduction about Machine Learning with AI Applications on 10.03.2024. The course Assessment was carried out on 21.04.2024(AN) which consists of 25 questions about the topic, discussed. Around 36 students of Second Year AI&DS successfully completed the course. The students were appreciated with the course completion certificate.

The feedback was collected from the participants. Mrs.D.Latha, HOD, Dept of AI&DS delivered the vote of thanks at the end of the session.

The students are excited in doing Machine Learning with AI Applications after the successful completion of this course.



Program Coordinator





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ACADEMIC YEAR 2023-2024(ODD SEM)

ML01AI-MACHINE LEARNING WITH AI APPLICATIONS COURSE OUTCOMES

Financial services. Risk assessment, algorithmic trading, customer service and personalized banking are areas where financial services companies apply machine learning. Capital One, for example, deployed ML for credit card defense, which the company places in the broader category of anomaly detection.

Pharmaceuticals. Drug makers use ML for drug discovery, in clinical trials and in drug manufacturing. Eli Lilly has built AI and ML models, for example, to find the best sites for clinical trials and boost the diversity of participants. The models have sharply reduced clinical trial timelines, according to the company.

Manufacturing. Predictive maintenance use cases are prevalent in the manufacturing industry, where an equipment breakdown can lead to expensive production delays. In addition, the computer vision aspect of machine learning can inspect items coming off a production line to ensure quality control.

Insurance. Recommendation engines can suggest options for clients based on their needs and how other customers have benefited from specific insurance products. Machine learning is also useful in underwriting and claims processing.

Retail. In addition to recommendation systems, retailers use computer vision for personalization, inventory management and planning the styles and colors of a given fashion line. Demand forecasting is another key use case.

Program Coordinator







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CERTIFICATE COURSE - ACADEMIC YEAR - 2023-2024(ODD SEM)

ML01AI-MACHINE LEARNING WITH AI APPLICATIONS STUDENT ATTENDANCE PARTICULARS

S.NO	REG. NUMBER	NAME OF THE STUDENT	10.03.2024	17.03.2024	24.03.2024	31.03.2024	07,04,2024	14.04.2024	REMARKS
1	620622243001	AAKASH P R	P	P	P	P	P	P	
2	620622243002	ABHISHEKH PRASANNA M	P	P	Р ,	P	P	P	
3	620622243003	AJITH P	P	AB	P	P	AB	P	
4	620622243004	AKALYA K	P	P	P	P	P	P	
5	620622243005	AMSAVALLI A	P	P	P	P	P	P	
6	620622243006	ANJALI R .	P	P	P	P	P	P	
7	620622243007	ARAVINTH KUMAR M	P	P	P	Р .	P	P	
8	620622243008	ARJUN Y	P	P	P	AB	P	P	
9	620622243009	DHARANIDHARAN K	P	P	P	P	P	P	
10	620622243010	GAYATHRI S	P	P	P	P	Р	P	
11	620622243011	GOKUL B	P	P	P	P	P	P	
12	620622243012	GOKULMANIKKAM P	P	P	P	Р	P	P	
13	620622243013	GOPIKA A	P	P	P	P	P	P	
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15	620622243015	GOPINATH R	P	P	Р,	Р	P	Р	
16	620622243016	GOWRI SHANKAR M	P	P	P	. P	P	P	
17	620622243017	HARI M	P	P	Р	P	P	P	
18	620622243018	HEMANTH T	P	AB	P	P :	AB	P	
19	620622243019	JAGADEESH S	P	P	P	Р	P	P	
20	620622243021	KARTHICK A K	Р	P	Р	Р	P	P	
21	620622243022	KIRUTHIGA M	P	P	P	Р	P	P	
22	620622243023	MAHALAKSHMI S	P	P	P	Р	Р	P	
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25	620622243026	MUGANESHWARAN K	P	P	Р	Р	P	P	
26	620622243027	MUKESH RAJ M	P	P	P	P	Р	P	
27	620622243028	NANDHINI Y	P	P	P	P	P	P	*
28	620622243029	NISHANTH S	P	P	P	P	P	P	
29	620622243030	PARTHASARATHY A R	P	AB	P	P	P	P	*
30	620622243031	RAGAVAN S	P	P	P	P	P	P	
31	620622243032	RAJENDHIRAN S	P	P	P	P	P	P	
32	620622243033	RAMESH K	P	P	P	P	P	P	
33		SANDHIYA D	P	P	P	P	P	P	
		SANJAY M	P	P	P	P	AB	P	
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-		SHANMUGAPRIYA S	P	P	P	P	P	P	
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CERTIFICATE COURSE - ACADEMIC YEAR - 2023-2024 ML01AI-MACHINE LEARNING WITH AI APPLICATIONS STUDENTS PARTIPATION LIST

S.NO	REG. NUMBER	NAME OF THE STUDENT	SIGNATURE
in i	620622243001	AAKASH P R	Jaken
2	620622243002	ABHISHEKH PRASANNA M	M. Asha
3	620622243003	АЛТН Р	AR
4	620622243004	AKALYA K	W. Avad
5	620622243005	AMSAVALLI A	Amenw. A
6	620622243006	ANJALI R	Anna R
7	620622243007	ARAVINTH KUMAR M	M. Alavinth
8	620622243008	ARJUN Y	dejet
9 -	620622243009	DHARANIDHARAN K	Dhagant . K
10	620622243010	GAYATHRI S	(jayathur
11	620622243011	GOKUL B	Grobul B
12	620622243012	GOKULMANIKKAM P	Gokulnanikar
13	620622243013	GOPIKA A	Gopikas. A
14	620622243014	GOPIKA S	Cupika
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25	620622243026	MUGANESHWARAN K	Muganeshooning
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27	620622243028	NANDHINI Y	Nanthining
28	620622243029	NISHANTH S	Wishum 8
29	620622243030	PARTHASARATHY A R	Parithasarathym
30	620622243031	RAGAVAN S	Rogara
31	620622243032	RAJENDHIRAN S	3. Rajandhipen
32	620622243033	RAMESH K	* Ramesh.k.
33	620622243034	SANDHIYA D	landhin.
34	620622243035	SANJAY M	James
35	620622243037	SATHISHKUMAR G	Dethishtury G
36	620622243038	SHANMUGAPRIYA S	Thomman in a

Course Coordinator

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GCE/AI&DS/2023-2024/SBT1

Date: 29-09-2023

CIRCULAR

The Department has decided to conduct a certificate Course program on "(SBT1C - CYBER SECURITY)" For Secondyear students from 15/10/2023 to 19/11/2023 on every Sundays. Interested students can enroll their name to the program coordinator (Mrs. A.BABY SHARMILA, AP/AI&DS) on or before 07.10.2023.

HOD

Copy to:

- 1. Principal's office
- 2. IQAC
- 3. Department File







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SYLLABUS

SYLLABUS OF THE CERTIFICATE COURSE

MODULE 1:

Foundation of Cyber Security and Engineering: This module covers four broad topic areas: programming, operating systems, encryption and networks. These topics will be taught in the context of Cyber Security.

MODULE 2:

Cyber Threat Intelligence and Network Security: Cyber threat intelligence has become one of the most popular topics in recent years with the explosion of cyber threat data from different data sources.

MODULE 3:

Malware Analysis, Penetration Testing and Incident Response: This module shows how to think like an attacker, how to probe systems for exploitable vulnerabilities and how to react appropriately when an incident occurs.

MODULE 4:

Digital Forensics with Legal, Ethical and Research Methods: The module focuses on the ethical and professional context of cyber security digital engineering, systems management, and digital forensics and in doing so it addresses the theory of professionals in organisations, security management, project management, the legal framework.

MODULE 5:

Data Analysis Project: In a data analysis project, the student is expected to evaluate, select and apply computational techniques for data analysis and knowledge extraction, to solve a novel data analysis or knowledge extraction problem.

MODULE 6:

Conceptual Analysis Project: In a conceptual analysis project, the student is expected to develop an analysis on paper of a system or of how to solve a problem. Such projects might involve developing an analysis of a working software system.

Program Coordinator







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ACADEMIC YEAR 2023-2024

COURSE SCHEDULE

SBT1C-CyberSecurity

Date / Hour	1	2	3	4		5	6	
15-10-2023	Foundation of Cyber Security and Engineering		operatin	amming, ag systems, yption		Practical Session on CS		
: Cyber Threat 22-10-2023 Intelligence and Network Security		Explosion of cyber threat data			Practical So	ession on CS		
Malware Analysis, Penetration Testing and Incident Response			ities and how ppropriately	BREAK	Practical So	ession on CS		
Digital Forensics with Legal, Ethical and Research Methods		Professionals in organisations, security management, project management, the legal framework		LUNCH	Practical So	ession on CS		
12-11-2023 Data Analysis Project		Data analysis or knowledge extraction problem			Practical So	ession on CS		
19-11-2023 Conceptual Analysis Project		Developing an analysis of a working software system			Practical So	ession on CS		

Program Coordinator

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ACADEMIC YEAR - 2023-2024(EVEN SEM)

CERTIFICATION COURSE

SBT1C-CYBER SECURITY

FEEDBACK QUESTIONAIRE (PLEASE TICK THE APPROPRIATE ANSWER)

NAME OF THE PARTICIPANT: KARTHICK A.K	CLASS: II Year
1. Was the presentation clear and relevant to the topic?	

Yes/No

2. Was the session well organized?

Yes/.No

3. Was the course material provided sufficient and relevant?

Yes/No

4. Was the expert member capable of delivering the contents clearly?

Yes/No

5. Would you like to attend similar type of course again in the future?

Yes/No

Comments:

Kartick A.10 Signature of the Participant







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ACADEMIC YEAR 2023-2024(EVEN SEM)

SBT1C-CYBER SECURITY

PROGRAM REPORT

The Department of Computer Science and Engineering, Ganesh College of Engineering organized a Certificate Course on "SBT1C-CyberSecurity" The Course was inaugurated on 15.10.202310.00am. Mrs.D.Latha, Head, Dept of AI&DS delivered the welcome address. It was conducted during the weekends from 15.10.2023to 19.11.2023 for the duration of 35 hours.

Mr.A.Prakash, started with introduction about CyberSecurity on15.10.2023. The course Assessment was carried out on 26.11.2023(AN) which consists of 25 questions about the topic, discussed. Around 36 students of Second Year AI&DS successfully completed the course. The students were appreciated with the course completion certificate.

The feedback was collected from the participants. Mrs.D.Latha, HOD, Dept of AI&DS delivered the vote of thanks at the end of the session.

The students are excited in doing Cybersecurity after the successful completion of this course.



Program Coordinator

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ACADEMIC YEAR 2023-2024(EVEN SEM)

SBT1C-CYBER SECURITY

COURSE OUTCOMES

- 1. We work closely with industry to design engaging courses that will give you the skills and experience to accelerate your career and get ahead in the competitive job market.
- 2. We'll support you to become what employers need: work-ready graduates with professional experience and industry skills. Your career will be in focus from day one, with support from our award-winning Careers Team, UK and overseas placements, internships, targeted training, coaching and research opportunities as part of DMU life and study.
- 3. Our commitment to helping students achieve their career goals was recognized in the Uni Compare rankings where students rated us the 16th best university for employability. There's lifelong support, too, through our alumni network.
- 4. We offer undergraduate and postgraduate courses (our postgraduate courses were rated as 8th best overall by students in the 2024 What Uni Student Choice Awards), foundation courses, full-time and part-time courses, and Learning Beyond Registration modules among others.
- 5. Most courses are taught using block teaching our innovative approach to learning where you study one module at a time. You'll benefit from regular assessments rather than lots of exams at the end of the year.

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CERTIFICATE COURSE - ACADEMIC YEAR – 2023-2024(EVEN SEM) SB1TC-CYBER SECURITY STUDENT ATTENDANCE PARTICULARS

s.no	REG. NUMBER	NAME OF THE STUDENT	15.10.23	22.10.23	29.10.23	05.11.23	12.11.23	19.11.23	REMARKS
1	620622243001	AAKASH P R	P	P	FP.	P	P	P	
2	620622243002	ABHISHEKH PRASANNA M	P	P	P	P	P	P	
3	620622243003	AJITH P	P	AB	P	_A P	AB	P	
4	620622243004	AKALYA K	P	P	P	† P	P	P	
5.	620622243005	AMSAVALLI A	P	P	P	P	P	P	
6	620622243006	ANJALI R	P	P	P	P	P	P	
7	620622243007	ARAVINTH KUMAR M	P	P	P	P	P	P	
8	620622243008	ARJUN Y	P	P	′P	AB	P	P	
9	620622243009	DHARANIDHARAN K	P	P	P	P	P	P	
10	620622243010	GAYATHRI S	P	P	P	P	P	P	
11	620622243011	GOKUL B	P	P	P	P	P	P	
12	620622243012	GOKULMANIKKAM P	P	P	P	i P	P	P	
13	620622243013	GOPIKA A	P	P	P	P	P	P	
14	620622243014	GOPIKA S	P	P	P	P	P	P	
15	620622243015	GOPINATH R	P	P	P	P	P	P	
16	620622243016	GOWRI SHANKAR M	P	P	P	P	P	P	
17	620622243017	HARI M	P	P	P	P	P	P	
18	620622243018	HEMANTH T	P	AB	P	P	AB	P	F 7
19	620622243019	JAGADEESH S	P	P	p	P	P	P	
20	620622243021	KARTHICK A K	P	P	Р.	P	P	P	
21	620622243022	KIRUTHIGA M	P	P	P	P	P	P	
22	620622243023	MAHALAKSHMI S	P	P	P	P	P	P	4.5 30
23	620622243024	MANIKANDAN M	Р	P	P	P	P	P	
24	620622243025	MANIKANDAN N	P	P	AB	P	AB	P	
25	620622243026	MUGANESHWARAN K	P	P	P	P	P	P	
26	620622243027	MUKESH RAJ M	P	P	P	P	P	P	
27	620622243028	NANDHINI Y	P	P	P	P	P	P	
28	620622243029	NISHANTH S	P	P	P	P	P	P	
29	620622243030	PARTHASARATHY A R	P	AB	P.	P	P	P	
	620622243031	RAGAVAN S	P	P	P	1 P	P	P	
	620622243032	RAJENDHIRAN S	P	P	P	P	P	P	
	620622243033	RAMESH K	P	P	P	P	P	P	
	620622243034	SANDHIYA D	P	P	P	P	P	P	
	620622243035	SANJAY M	P	P	P	P	AB	P	
	620622243037	SATHISHKUMAR G	P	P	P	P	P	P	
	620622243038	SHANMUGAPRIYA S	P	P	B	P	P	P	
		COORDINATOR	W>	W	by	wy	dis	br	

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CERTIFICATE COURSE - ACADEMIC YEAR - 2023-2024

SB1TC-CYBER SECURITY STUDENTS PARTIPATION LIST

S.NO	REG. NUMBER	NAME OF THE STUDENT	SIGNATURE
1	620622243001	AAKASH P R	ANN "
2	620622243002	ABHISHEKH PRASANNA M	le bishell prom
3	620622243003	АЛТН Р	whole
4	620622243004	AKALYA K	Hangle .
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6	620622243006	ANJALI R	Chian
7	620622243007	ARAVINTH KUMAR M	DRAWINTH KE MONNE
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9	620622243009	DHARANIDHARAN K	Dumbus L.
10	620622243010	GAYATHRI S	combidual.
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17	620622243017	HARI M .	the law !
18	620622243018	HEMANTH T	Market.
19	620622243019	JAGADEESH S	12 Oa .
20	620622243021	KARTHICK A K	Karthick. AK.
21	620622243022	KIRUTHIGA M	M. Vottage
22	620622243023	MAHALAKSHMI S	m. X
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24	620622243025	MANIKANDAN N	: Demarks.
25	6206222436260	MUGANESHWARAN K	Margurage :
26	620622243627	MUKESH RAJ M	way .
27	620622243028	NAMEHINI Y	M. John M.
28	620622243029		NISON.
29	620622243030	PARTHASARATHY & RALEM 836 111	D. M. J. M.

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30	620622243031	RAGAVAN S		Hasolv.
31	620622243032	RAJENDHIRAN S		Rouding.
32	620622243033	RAMESH K		Ramoy 1
33	620622243034	SANDHIYA D	,	anti.
34	620622243035	SANJAY M	,,	Linky.
35	620622243037	SATHISHKUMAR G		Soludenholy
36	620622243038	SHANMUGAPRIYA S		Settland.

Course Coordinator

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