



NAAC CRITERIA - 2
Student Centric Methods- Experiential Learning
One Credit Courses

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Thalavapalayam, Karur, Tamilnadu.



**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND
DATA SCIENCE**

II Year/ IV SEM (2021-2025)

**REPORT ON
ONE CREDIT COURSE
AI FOR DECISION MAKING**

Date: 12.03.2023 to 13.03.2023

AY: 2022-2023

Venue: AI Lab, Dept. of AI, MKCE.

HoD/AI

Department of Artificial Intelligence & Data Science
M. Kumarasamy College of Engineering
Thalavapalayam, Karur- 639 113



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Thalavapalayam, Karur - 639 113.



DEPARTMENT OF ARTIFICIAL INTELLIGENCE

Date: 05.04.2023

Submitted to the Principal:

Subject: Seeking permission to organize One Credit Course on the topic of "AI for Decision Making" for II Year AI&DS students - Reg

In order to improve the skill set of students in recent technologies, AI department is willing to organize One Credit Course on the topic of AI for Decision Making for the II Year AI&DS students (Batch: 2021-2025) conducted by NoviTech R&D Pvt Ltd, Coimbatore from 12.04.2023 (Wednesday) to 13.04.2023 (Thursday). I request you to give permission to conduct the same at our campus.

Thank You,

Yours Truly,

[Signature]
11/4/23

[Dr. N M Saravanakumar]

HoD/AI

Department of Artificial Intelligence & Data Science
M. Kumarasamy College of Engineering,
Thalavapalayam, Karur- 639 113

[Signature]
11/4/23
(DEPTN (OAC))

Managew
[Signature] 11/4/23

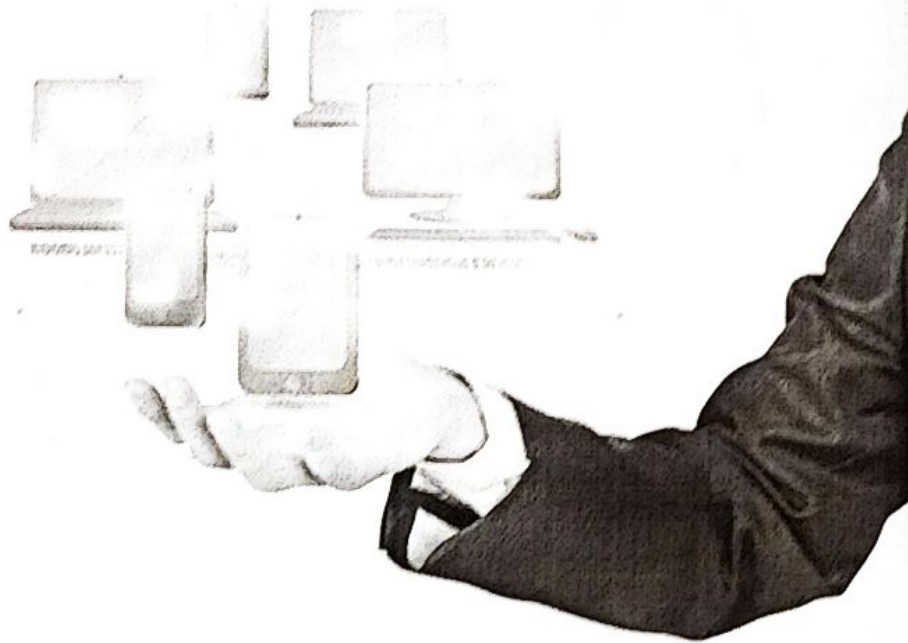


Regulation 2018		Semester XX			Total Hours			30						
Category	Course Code	Course Name			Hours / Week			C						
					L	T	P							
OC	18AIOC003L	AI FOR DECISION MAKING			0	0	2	1						
Prerequisite Course (s)														
NIL														
Course Objective (s): The purpose of learning this course is to:														
To understand the basic concepts of Big Data, ML, AL and its application domains														
Course Outcome (s) (COs): At the end of this course, learners will be able to:														
CO1	Explain the diverse application domains of Artificial Intelligence and other learning environments.													
CO-PO Mapping														
Cos	POs												PSOs	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	2	1					2	2	3	1
CO (Avg)	3	3	3	3	2	1					2	2	3	1
UNIT I		Module – 1											6	
Business Strategies and Applications Fundamentals of Big Data, Machine Learning (ML), and Artificial Intelligence.														
UNIT II		Module – 2											6	
AI for Marketing World, AI for the finance world and AI for Human resource Management.														
UNIT III		Module – 3											6	
AI in Food Industry, AI Driven Transformation: Economics and governance.														
Reference(s)														
1	https://sl-onlinetraining.wharton.upenn.edu/ai-program-for-decision-making													
Strategy(s)														
<ul style="list-style-type: none"> The student will be evaluated through assessment by an Industry panel formed under the approval of head of the department. 														



NOVITECH R&D PVT LTD

www.novitech.in



NT **NoviTech**
the innovation partner

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Kanniyakottam, Gandhipuram
Coimbatore. 641009

Kerala:
65/107, Basement floor
Opp to AI Hall, KK Road
Kerala, Kochi. 682017

About NoviTech

Incepted in 2017, NoviTech R&D Pvt Ltd is a Hardware/Software Development, Technical training and Information technology services to the Companies & Educational Institutions.

Our focused, Product/Project approach is derived from the cumulative experience of our team members. As a result of their combined practical business experience with strong technology delivery capabilities, we are able to comprehend the client's business requirements, propose IT and creative strategies in line with the vision of the business and execute the business plan by building or implementing high quality scalable technical solutions through the use of latest cutting edge Technologies.



Our Vision

To become the leading edge technology provider in all over India by creating high quality products and services (Software & Hardware) in order to fulfill our clients' expectations and achieve measurable competitive advantage.

Our Mission

Our mission is to enhancing the business growth of our customers with creative Design and Development to deliver market-defining high-quality solutions that create value and reliable competitive advantage for our clients around the world.



That make us the Premier Choice

Intellect & Experience

Highly skilled professionals who possess expertise in diverse Business and Technology areas make up the Business Technologies team. To provide world class service, we employ the best engineers, adhere to proven methodology, provide superior client service and become a true business partner in every project.

Commitment to Quality

We believe in Quality service and our approach has been designed to provide the same. We listen carefully to our clients and provide space, time and materials according to agreement for the project. We are proud of our Technical and Creative capability and this emerges from taking time to get it right. Our Quality Technical Department tests throughout the process to ensure that the project will be successful.

On time Delivery

We invest the time up-front to clearly understand your needs and then manage projects to ensure they are delivered on time and within budget. This methodology expedites rapid successful implementation, limits uncertainty and keeps the customer always aware of development progress at our end.

Track Record

We have handled small - large scale projects and have over the years implemented solutions for numerous organizations of all sizes. Our growing list of satisfied customers' not only act as our excellent references but are also a source of our repeat business.

Our Services to Educational Institutions

- Workshops
- Certified Value Added Courses
- Faculty Development Programs
- Internships / In-plant Training
- Seminar / Webinar
- One Credit Courses
- Project Guidance

Our Services to Industry

- Product Design and Development
- Research and Development
- Industrial Project
- Software Development Service

Our Technologies

- Embedded Systems
- Internet of Things
- Robotics
- Augmented Reality / Virtual Reality
- Artificial Intelligence
- Computer Vision
- Image Processing / Signal Processing
- Blockchain / Wireless Communication
- VLSI / VVLSI - Linux, Azure
- Matlab Simulations / Simulink
- Power Electronics / Power Systems
- Renewable Energy / E-Vehicles
- Machine Learning / Deep Learning
- Natural Language Processing
- Cloud Computing / Network security
- Application Development (app, etc)
- Web Development
- Linux OS / Windows OS / Linux - Native

Research & Development Sector

- ✚ **FAREN'T – Intelligent Body temperature, Mask & Facial Recognition**
 - Touchless Temperature Monitor
 - Touchless Attendance Using Facial Recognition
 - Central Database Upload of Temperature and Attendance
 - Multiple Reports Can be Generated
 - Mobile Application Integrated for Temperature and Attendance Notifications
 - A Complete Automated System Providing a Safe Environment
- ✚ **Cot Measurement – This project is based on computer vision. It was automatically identifying the length*width by using cot image for chooses the perfect bed.**
- ✚ **Etta – Artificial Intelligence method for body measurement. It was use to online tailoring system.**



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Intelligent Body Temperature,
Mask & Facial Recognition

FAREN-T



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M.KUMARASAMY COLLEGE OF ENGINEERING

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND
DATA SCIENCE

ONE CREDIT COURSE

ON

AI for Decision Making

Resource Person(s)

Mr. T. Muthuvel Ramesh

Mr. R. Muthukumar

NoviTech R&D Pvt. Ltd.

Coimbatore

DATE : 12.04.2023 &
13.04.2023

TIME : 9:00 AM TO 5:00 PM

Dr. K. Ramakrishnan
Secretary
MKCE

Dr. S. Kuppusamy
Executive Director
MKCE

Dr. B.S. Murugan
Principal, MKCE

Dr. N.M. Saravanan
HOD/AI, MKCE

4. NumPy stand for *

1 point

- Number In Python
- Numerical Python
- Numbering Python

5. ____ refers to converting the labels into numeric form so as to convert it into the machine-readable form. * 1 point

- Euclidean Distance
- Min-Max Normalization
- Label Encoding

6. Format of the dataset in python *

1 point

- JSON
- Comma-separated values
- xlsx

7. What is the module file used to split the data? *

1 point

- train_test_split
- label encoder
- standard scalar

AI for Decision Making

lavanyas.ai@mkce.ac.in [Switch account](#)



* Indicates required question

Email *

Your email

1. Pandas is used for ? *

1 point

- working with data sets
- Data visualization
- Statistical analysis

2. ____ is an important library used for analyzing data *

1 point

- Math
- Random
- Pandas

3. What is the purpose of NumPy in Python? *

1 point

- To do scientific computing
- To do numerical calculations
- Both A and B

12. Who is the founder of machine learning ? *

1 point

- Andrew Ng
- John McCarthy
- Arthur Samuel

13. Python was introduced in which year ? *

1 point

- 1999
- 1991
- 1995

14. What is the command used for installing module file? *

1 point

- npm
- pip
- apt

15. _____ is a part of machine learning that works with neural networks *

1 point

- Artificial intelligence
- Deep learning
- Both A and B

8. Among the following option identify the one which is not a type of learning *

1 point

- semi unsupervised learning
- supervised learning
- unsupervised learning

9. Identify the type of learning in which labeled training data is used. *

1 point

- supervised learning
- unsupervised learning
- Reinforcement learning

10. What is the term known as on which the machine learning algorithms build a model based on sample data? *

1 point

- Transfer data
- Training data
- Data training

11. Machine learning is a subset of which of the following. *

1 point

- Deep learning
- Artificial Intelligence
- Data learning

20. The Bayes rule can be used in ____ *

1 point

- Increasing complexity
- Answering probabilistic query
- Solving queries

21. What is called the average squared difference between classifier * predicted output and actual output?

1 point

- Mean relative error
- Mean squared error
- Mean absolute error

22. The problem of finding hidden structure in unlabeled * data is called...

1 point

- supervised learning
- unsupervised learning
- reinforcement learning

23. You are given reviews of few netflix series marked * as positive, negative and neutral. Classifying reviews of a new netflix series is an example of

1 point

- supervised learning
- reinforcement learning
- unsupervised learning

16. The supervised learning problems can be grouped as *

1 point

- Regression problems
- Classification problems
- Both A and B

17. Who is the founder of python *

1 point

- Guido van Rossum
- James Gosling
- Arthur Samuel

18. Which machine learning models are trained to make a * series of decisions based on the rewards and feedback they receive for their actions?

1 point

- Supervised learning
- Unsupervised learning
- Reinforcement learning

19. Real-Time decisions, Game AI, Learning Tasks, Skill acquisition, and * Robot Navigation are applications of ____.

1 point

- Unsupervised Learning
- Reinforcement Learning
- Supervised Learning

28. In simple term, machine learning is *

1 point

- training based on historical data
- prediction to answer a query
- both a and b

29. Prediction is _____ *

1 point

- the result of application of specific theory or rule in a specific case
- discipline in statistics used to find projections in multidimensional data
- value entered in database by expert

30. You are given seismic data and you want to predict next earthquake, this is an example of

1 point

- supervised learning
- reinforcement learning
- dimensionality reduction

31. In multiclass classification number of classes must be *

1 point

- less than two
- equals to two
- greater than two

24. If machine learning model output involves target variable then that model is called as _____

1 point

- descriptive model
- predictive model
- reinforcement learning

25. What is the module file that is used to improve the quality of the dataset.

1 point

- Standard scalar
- Label encoder
- NumPy

26. Supervised learning and unsupervised clustering both require which is * correct according to the statement.

1 point

- output attribute.
- hidden attribute.
- input attribute.

27. Some telecommunication company wants to segment their customers into distinct groups, this is an example of *

1 point

- supervised learning
- data extraction
- unsupervised learning

36. What are the conditions in precision and recall to get high f1 score? *

1 point

- Precision - High ; Recall - Low
- Precision - Low ; Recall - High
- Both precision and Recall should be High

37. Who is the founder of deep learning? *

1 point

- Geoffrey Hinton
- Dennis M
- Bjarne Stroustrup

38. If the value of the precision is high and the value of the recall is low, what will be harmonic mean will do? *

1 point

- Punishes the larger value
- Punishes the Smaller value
- None of the above

39. Which modules should be used data visualization? *

1 point

- Matplotlib and seaborn
- Scikit-learn
- Pandas

32. Deep learning requires _____. *

1 point

- Massive amount of data
- Less amount of data
- Average amount of data

33. Machine learning is working is based on *

1 point

- Feature extraction
- Classification
- Both of the above

34. What is independent variable *

1 point

- Features
- Label
- None of the above

35. Which formula is used in finding F1 score? *

1 point

- Euclidean distance
- Harmonic mean
- Hypoallergenic formula

48. What is the drawback of Machine Learning Comparing with Deep learning?

* 1 point

- Requires less amount of data
- Less Training Duration
- Less Accuracy

49. Choose the incorrect numerical functions in the various function representation of machine learning.

* 1 point

- Neural Network
- Linear regression
- Case-based

50. Artificial Intelligence is about_____ *

1 point

- Playing a game on Computer
- Making a machine Intelligent
- Programming on Machine with your Own Intelligence

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DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

ONE CREDIT COURSE ON AI FOR DECISION MAKING

ANSWER KEY

Question No	Answer	Question No	Answer
1	working with data sets	26	input attribute.
2	Pandas	27	unsupervised learning
3	Both A and B	28	both a and b
4	Numerical Python	29	the result of application of specific theory or rule in a specific case
5	Label Encoding	30	supervised learning
6	Comma-separated values	31	reinforcement learning
7	train_test_split	32	Massive amount of data
8	semi unsupervised learning	33	Both of the above
9	supervised learning	34	Features
10	Training data	35	Harmonic mean
11	Artificial Intelligence	36	Both precision and Recall should be High
12	Arthur Samuel	37	Geoffrey Hinton
13	1991	38	Punishes the larger value
14	pip	39	Matplotlib and seaborn
15	Deep learning	40	80% data of the features
16	Both A and B	41	20% data of the features
17	Guido van Rossum	42	80% data of the label
18	Reinforcement learning	43	20% data of the label
19	Reinforcement Learning	44	2
20	Answering probabilistic query	45	1
21	Mean squared error	46	2
22	unsupervised learning	47	Euclidean distance
23	supervised learning	48	Less Accuracy
24	predictive model	49	Case-based
25	Standard scalar	50	Making a machine Intelligent

[Signature]

FACULTY IN_CHARGE

[Signature]

HOD/AI

Department of Artificial Intelligence & Data Science
 M. Kumarasamy College of Engineering,
 Thalavapalayam, Karur-639 113



DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

One Credit Course on AI for Decision Making

II yr AI & DS - Mark Statement

S.No	Register No.	Name	Score
1	927621BAD001	AADHIGOWTHAM V S	100
2	927621BAD002	AARTHI B	90
3	927621BAD003	ABISHAK D	94
4	927621BAD004	AKHIL S T	100
5	927621BAD005	ASWIN SIDHARTH V S	100
6	927621BAD006	BOOBESHAN AC	100
7	927621BAD007	DEVAPRASADH B	100
8	927621BAD008	DHANUSH G	100
9	927621BAD009	DHARANIDHARAN R	100
10	927621BAD010	DHINAGARAN V P	100
11	927621BAD011	DINESH S	100
12	927621BAD012	GURUMEETA S R	100
13	927621BAD013	HARIPRIYA I	98
14	927621BAD014	HARISH SRIRAJ N	96
15	927621BAD015	HARISH V	100
16	927621BAD016	HARSHINI M	96
17	927621BAD017	HEMANTH B	100
18	927621BAD018	JOTHIKA MANGAI B	100
19	927621BAD019	JOTHIKA R	100
20	927621BAD020	KANIYAMUDHAN Y	100
21	927621BAD021	KAVIN K V	100
22	927621BAD022	KAVIN M	100
23	927621BAD023	KAVINKUMAR A	100
24	927621BAD024	KEERTHIKA S	100
25	927621BAD025	KRISHNA N	100
26	927621BAD026	LAVANYA DEVI K	86
27	927621BAD027	LIBERNA ASUWATHA A	100
28	927621BAD028	LINGESH S	100
29	927621BAD029	MADHUMITHRA M	86
30	927621BAD030	MAHALAKSHMI R	96

S.No	Register No.	Name	Score
31	927621BAD031	MATHIAN KUMAR K	100
32	927621BAD032	MOHANAWARMA M G	100
33	927621BAD033	NAVANEETH S	100
34	927621BAD034	NAVANEETHA KRISHINAN P S	100
35	927621BAD035	NIKITHA Y S	100
36	927621BAD036	NIVEDIHA M	100
37	927621BAD037	PRANISHIKA N	100
38	927621BAD038	PRASANNA R	100
39	927621BAD039	PRASANTH S	100
40	927621BAD040	PRAVEEN T	100
41	927621BAD041	RAHUL R	100
42	927621BAD042	SAI SETHU MLA	86
43	927621BAD043	SAIPRASHANNA P	100
44	927621BAD044	SANJAY S	100
45	927621BAD045	SATHEESHKUMAR K	100
46	927621BAD046	SAYNANE R M	100
47	927621BAD047	SHARAN ADHITHYA S	100
48	927621BAD048	SHURUTHI R S	100
49	927621BAD049	SHYAM B	96
50	927621BAD050	SOWNDHAR S	100
51	927621BAD051	SREE ASWIN RAJHA R S	90
52	927621BAD052	SUBAA R	70
53	927621BAD053	SUBASH S	100
54	927621BAD054	SUJAY V A	100
55	927621BAD055	SUPRIYA G	100
56	927621BAD056	SURYA N	100
57	927621BAD057	THAMIZHARASAN P	100
58	927621BAD058	THANISH SURIYA T	78
59	927621BAD059	VIMAL MATHEW B	100
60	927621BAD060	VINOHARSITHA A S	98
61	927621BAD061	VISHAL R	98
62	927621BAD062	VISHNU PRIYA C	100
63	927621BAD063	YUVASHREE S	100
64	927621BAD301	HAREESH KUMAR A	100
65	927621BAD302	ROHITH U	98
66	927621BAD303	SARATHI S	100

*Note: The Test was Conducted by NoviTech R&D Pvt Ltd, Coimbatore


Faculty In-Charge


HOD/AI

Department of Artificial Intelligence & Data Science
M. Kumarasamy College of Engineering
Thaiavapalayam, Karur- 639 113



DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

**ONE CREDIT COURSE ON AI FOR DECISION MAKING
FEEDBACK SAMPLE FORM**

FEEDBACK FORM: ONE CREDIT COURSE ON AI FOR DECISION MAKING

from 01.08.2022 to 06.08.2022

lavanyas.ai@nikce.ac.in [Switch account](#)

Not shared

* Indicates required question

Full Name with Initial *

Your answer

Email ID *

Your answer

Department Name *

Your answer

Feedback about the Session (1 - being the lowest & 5 - being the highest) *

	5	4	3	2	1
Presentation Clarity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Delivery of the Contents	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Quality of the Take Away Point from the courses	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Video / Audio / PPT Quality	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

The Content of Course was useful and interesting? *

- Strongly agree
- agree
- Neutral
- Disagree
- Strongly disagree

Full Name with Initial	Department	Feedback about the Session (1 - being the lowest & 5 - being the highest) [Presentation Clarity]	Feedback about the Session (1 - being the lowest & 5 - being the highest) [Delivery of the Contents]	Feedback about the Session (1 - being the lowest & 5 - being the highest) [Quality of the Take Away Point from the courses]	Feedback about the Session (1 - being the lowest & 5 - being the highest) [Video / Audio / PPT Quality]	The Content of Course was useful and interesting?	The One Credit Course was structured and well organized?	Overall how would you rate the session on a scale of 5?	Do you have any other suggestions or comments?
LINGESH S	AI&DS	5	5	5	5	Strongly agree	Strongly agree	5	Nil
Rahul R	AI&DS	5	5	5	5	Strongly agree	Strongly agree	5	Good
BOOBESHAN AG	AI&DS	5	5	5	5	agree	agree	4	Nothing
AKHIL S T	AI&DS	5	5	5	5	Strongly agree	Strongly agree	5	Excellent
KANIYAMUDHAN Y	AI&DS	5	5	5	4	agree	agree	4	-Nil-
JOTHIKA MANGAI B	AI&DS	4	5	5	4	Strongly agree	Strongly agree	5	It's very useful
Harish sriraj N	AI&DS	2	2	2	2	Strongly agree	Strongly agree	5	-
NIKITHA Y S	AI&DS	5	5	4	4	agree	Strongly agree	4	The teaching was awesome But sometimes he Becomes so frustrated So need to be cool at some case!
M G Mohanawarma	AI&DS	5	5	5	5	Strongly agree	Strongly agree	5	Nothing
SATHEESHKUMAR K	AI&DS	5	5	5	5	agree	Strongly agree	5	Nil
SHRUTHI R S	AI&DS	5	5	4	5	Strongly agree	agree	5	NO
KAVIN K V	AI&DS	4	4	4	4	agree	agree	4	No
JOTHIKA R	AI&DS	4	4	4	4	agree	agree	4	Today the content he thought was so big. To cover the topics he went fast but the content was clear. We need extra days to complete the credit smoothly.
Krishna N	AI&DS	5	5	5	5	Strongly agree	Strongly agree	5	It was very useful.
N Pranishka	AI&DS	5	5	4	5	Strongly agree	agree	5	No
NIVEDHA M	AI&DS	5	5	5	5	Strongly agree	Strongly agree	5	Good need more class like this
Harish V	AI&DS	4	4	4	4	Strongly agree	Strongly agree	4	No

Hareesh Kumar A	AI&DS	5	5	5	4	Strongly agree	Strongly agree	5	No
Yuvashree S	AI&DS	5	5	5	5	Strongly agree	Strongly agree	5	sessions went fast
Vishnu priya.C	AI&DS	4	4	4	3	agree	agree	4	Good teaching
Dhanush.G	AI&DS	5	5	5	5	Strongly agree	Strongly agree	1	Good
M Harshini	AI&DS	5	5	4	5	Strongly agree	Strongly agree	5	Over speed teaching but concept is clear
SAI SETHU M.L.A	AI&DS	5	5	5	5	Strongly agree	agree	5	PROJECTOR should be changed ..
SAYNANE R M	AI&DS	4	4	4	3	agree	agree	4	Nil
VINOHARSITHA A S	AI&DS	5	5	5	4	Strongly agree	Strongly agree	4	Thanks for the wonderful opportunity
Keerthika S	AI&DS	5	5	4	5	Strongly agree	Strongly agree	4	No
Subash S	AI&DS	5	5	5	5	Strongly agree	Strongly agree	5	Good
KAVINKUMAR A	AI&DS	4	4	4	4	agree	agree	3	NO
MAHALAKSHMI R	AI&DS	4	4	4	4	agree	Strongly agree	4	May the session be little jovial
Sowndhar s	AI&DS	4	5	5	5	Strongly agree	Strongly agree	5	No
HEMANTH B	AI&DS	5	4	5	4	Strongly agree	agree	4	Nil
Sharan Adhithya S	AI&DS	5	5	5	5	agree	Strongly agree	5	Good
IBERNA ASUWATHA.	AI&DS	5	4	5	5	Strongly agree	Strongly agree	4	Nil
Supriya.G	AI&DS	5	5	5	5	Strongly agree	Strongly agree	5	No
Navaneeth S	AI&DS	5	5	5	5	Strongly agree	Neutral	2	No idea
Navaneetha krishnan P S	AI&DS	3	3	4	4	agree	agree	4	They thought us mostly already knownd topic but practically it is acceptable
KAVIN M	AI&DS	5	5	5	5	Strongly agree	Strongly agree	5	No suggestions
Thamizharasan P	AI&DS	3	4	4	2	agree	Neutral	4	Nil
Dhinagaran v p	AI&DS	4	5	4	4	agree	agree	4	Nothing
SUBAA R	AI&DS	4	5	5	5	agree	Strongly agree	4	CAN SLOW UP THE SPEED OF SPEECH
Sarathi	AI&DS	5	5	5	5	Strongly agree	Strongly agree	5	No problems
DINESH S	AI&DS	4	4	4	4	Neutral	Neutral	3	No
Prasanna R	AIDS	4	4	4	4	Neutral	Neutral	4	No comments
K. LAVANYA DEVI	ligence and I	4	4	4	5	agree	agree	4	Good



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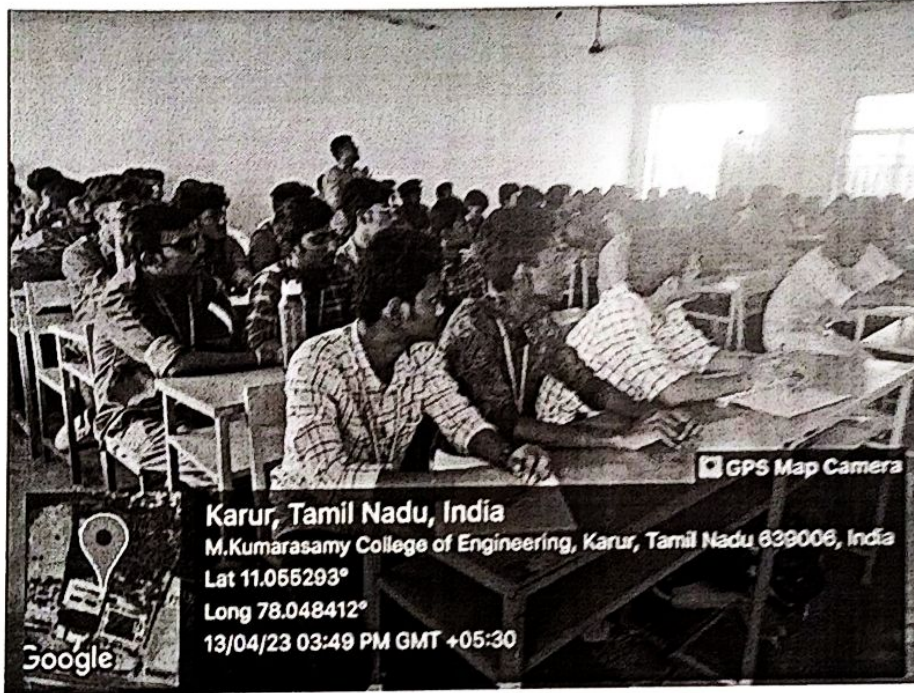
DEPARTMENT OF ARTIFICIAL INTELLIGENCE
One Credit Course on "AI for DECISION MAKING"

AY:2022-23

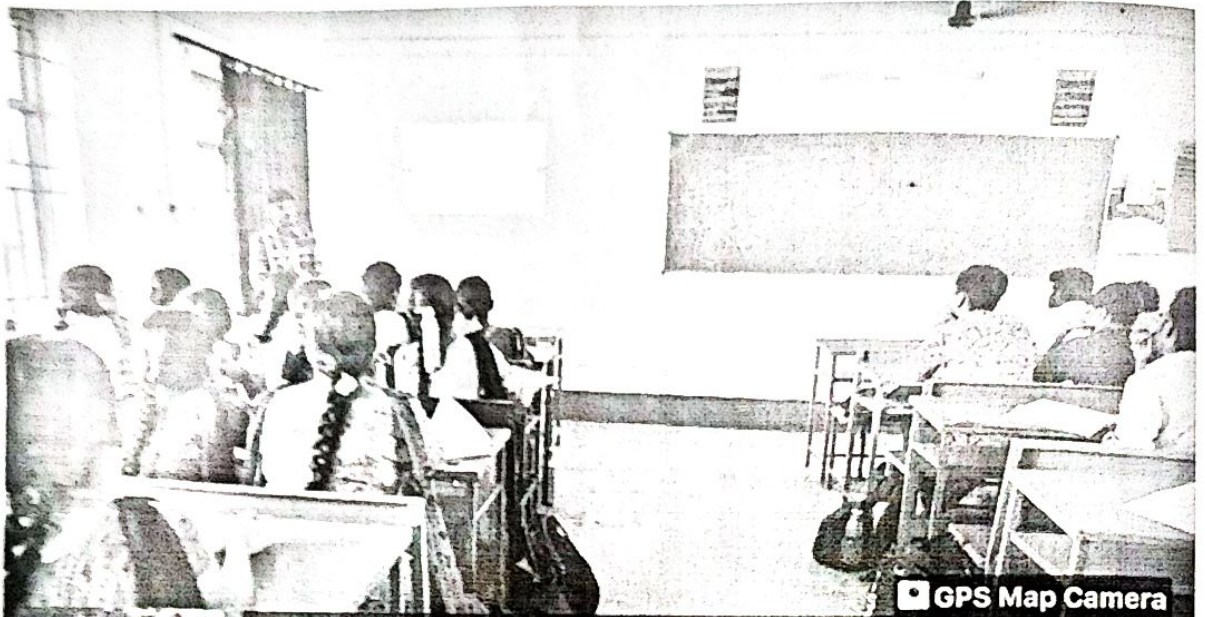
Class: II Yr AI & DS

Sem : IV

Date: 13.04.2023



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Department of Artificial Intelligence & Data Science
M. Kumarasamy College of Engineering
Thalavapalayam, Karur-639 113



GPS Map Camera



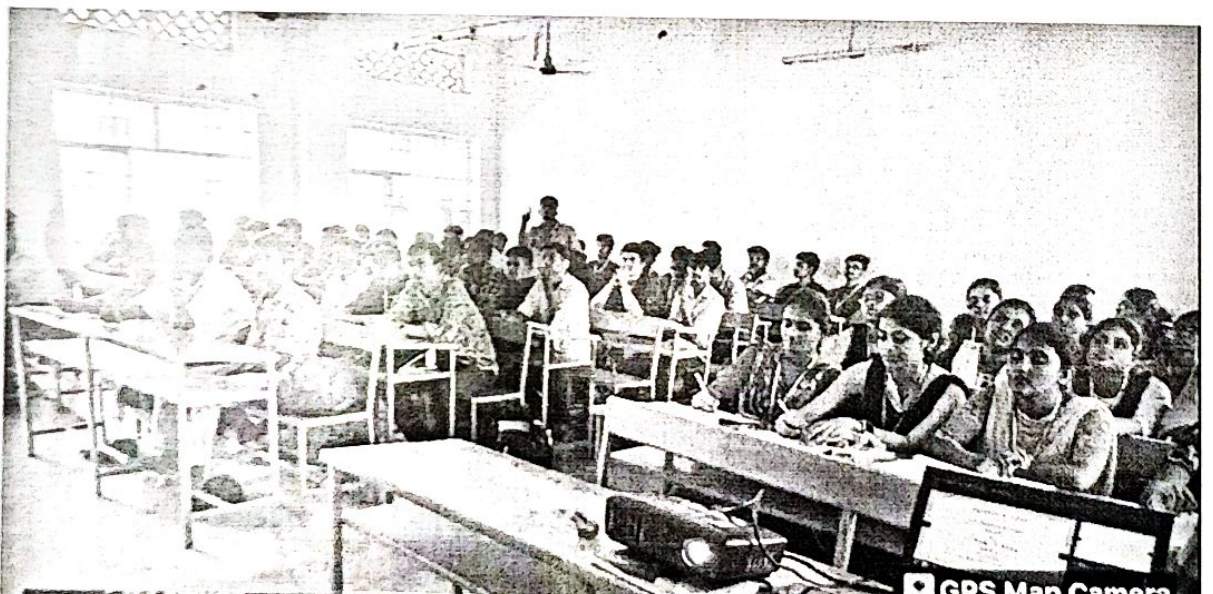
Karur, Tamil Nadu, India

M.Kumarasamy College of Engineering, Karur, Tamil Nadu 639006, India

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Long 78.048412°

13/04/23 03:48 PM GMT +05:30



GPS Map Camera



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DEPARTMENT OF ARTIFICIAL INTELLIGENCE

Date: 13.04.2023

A Report on One Credit Course on the topic of "AI for Decision Making"

In order to gain knowledge in recent technologies, the department of AI has organized one credit course on "AI for Decision Making" for the II-year AI & DS students on 12.04.2023 (Wednesday) & 13.04.2023 (Thursday).

Dr.N..M.Saravanakumar, Head of the Department, Artificial Intelligence has addressed the students about the importance of the course. He also delivered few points about machine learning and its applications, insisted students to utilize the session to the core and get benefited. Mr.S.Lavanya, AP/AI &DS, MKCE, has introduced the resource person **Mr. Muthuvel Ramesh T**, Technical Head, NoviTech R&D Pvt Ltd, Coimbatore. The session was delivered from 9.00AM to 5.00PM with hands-on session , python with Machine learning algorithms , video presentation of different AI projects in agriculture, industry robots, medical instruments, etc. Finally, the session was concluded with assessment and feedback.


[Dr. N M Saravanakumar] 13/4/23

HoD/AI

Department of Artificial Intelligence & Data Science
M. Kumarasamy College of Engineering
Thalavayalayar, Karur- 639 113



Post Event Analysis Report

Date: 13.04.2023

Event Title: One Credit Course on AI for Decision Making

Date on which the Event conducted: 12.04.2023 & 13.04.2023

Name & Address of the Organizer(s): Mrs.S.Lavanya/AP and Ms.A.Nithyasri/AP,
Department of Artificial Intelligence, MKCE.

Participant Feedback:

No. of Response received: 66

Overall rating

1. What did the attendee(s) like about the event?
 - a. Contents were interesting
 - b. Were able to know lot of new things.
 - c. Assessment questions are useful and inline with the training, hence easy to recollect.
 - d. Individual hands-on training on tools are good.
2. What could have been improved about the event suggested by the attendee(s)?
 - a. Time limit for the course can be extended
 - b. Need more sessions in hand-on training.
 - c. Application oriented tools in ML can be recollect.

Resource Person(s)

1. What did the attendee(s) like about the event?
 - a. Students are interested in learning but not interactive.
 - b. Worked well in ML tool within the short time limit.
 - c. Faculty members were very supportive in conducting this training.
 - d. Assessments practices and feedback system is good
 - e. Accommodation was good.
2. What could have been improved about the event suggested by the resource person(s)?
 - a. Length of the event could be increased.
 - b. Students can be quite interactive.

Organizers feedback: (5 points)

Event Highlights (What worked well?)

(Please list the points about the event that you feel were particularly successful.)

- a. Students could be quite interactive
- b. Well Organized Events and On-Time Management.
- c. Assessments practices and feedback system is good.

1. Issues (What problems did the event face?)

(Please list any problems you faced during the event and how you addressed them)

- a. NIL

2. Gap Analysis (Kindly do the analysis based on the feedback received from attendee(s), resource person(s) and the organizer(s))

- a. Resource persons from the industry can be inculcated so that the current technology trends can be known better.

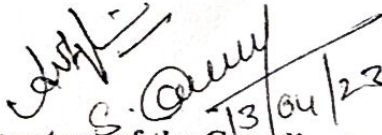
Recommendations for Future Events (What didn't work well?)


(Please provide what you feel didn't work out as you'd hoped and would recommend proceeding differently the next time a similar event is hosted.)

Weakness identified	Recommendations
Length of the event is limited	Value added course can be arranged

Challenges identified	Recommendations
Need to include more hands-on training and students are not well interactive	Hands-on training will be given in the future events. Insisted to participate in peer learning and be interactive.

Opportunities identified	Recommendations
Many open source simulation tools are available to learn in online.	Online tools and various sites were identified and informed o students to learn by self


Signature of the Coordinator/Organizer


Signature of the HoD

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Thalavayalaram, Karur- 639 113



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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND
MACHINE LEARNING**

II Year/ IV SEM (2021-2025)

**REPORT ON
ONE CREDIT COURSE
AI FOR DECISION MAKING**

Date: 06.03.2023 to 07.03.2023

AY: 2022-2023

Venue: AI Lab, Dept. of AI, MKCE.


HoD/AI

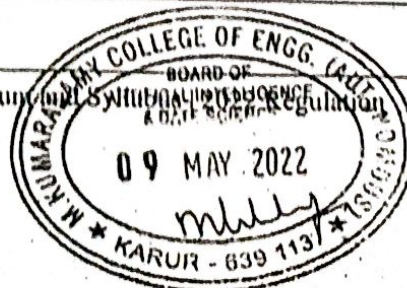
Department of Artificial Intelligence & Data Science
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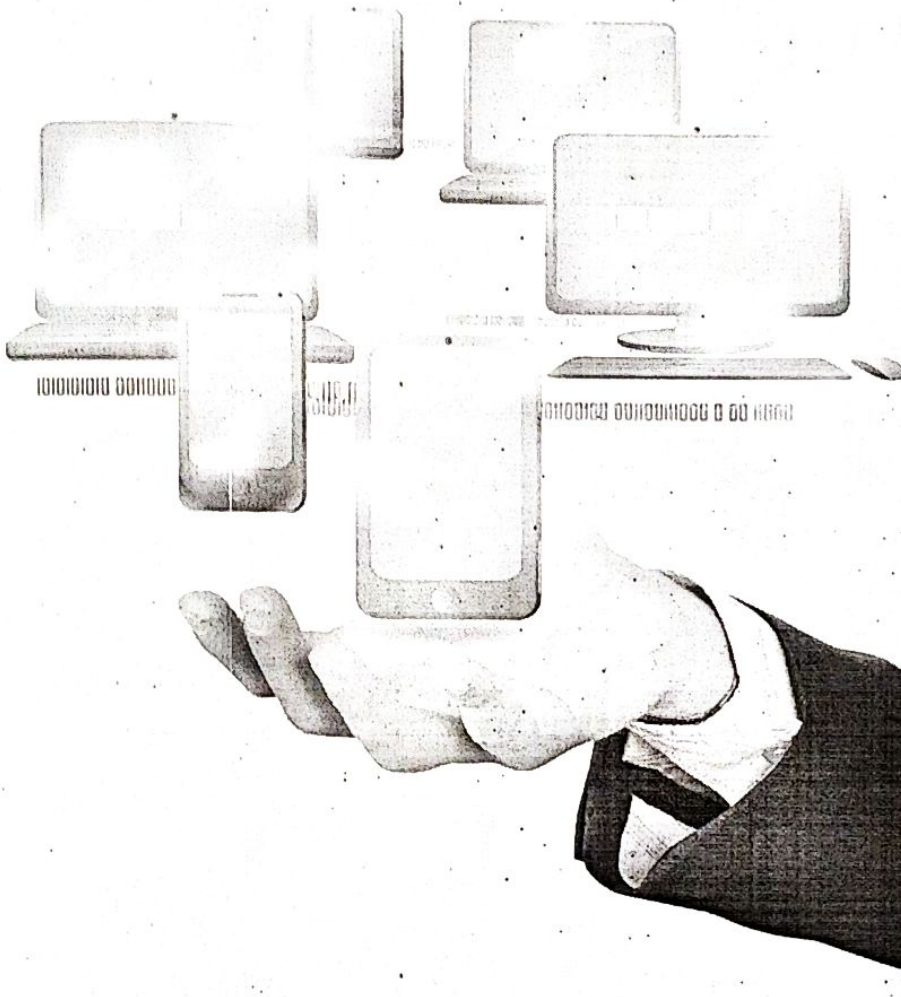


Regulation 2018		Semester XX	Total Hours			30								
Category	Course Code	Course Name	Hours / Week			C								
			L	T	P									
OC	18AIOC003L	AI FOR DECISION MAKING	0	0	2	1								
Prerequisite Course (s)														
NIL														
Course Objective (s): The purpose of learning this course is to:														
To understand the basic concepts of Big Data, ML, AL and its application domains														
Course Outcome (s) (COs): At the end of this course, learners will be able to:														
CO1	Explain the diverse application domains of Artificial Intelligence and other learning environments.													
CO-PO Mapping														
Cos	POs												PSOs	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	2	1					2	2	3	1
CO (Avg)	3	3	3	3	2	1					2	2	3	1
UNIT I		Module - 1											6	
Business Strategies and Applications Fundamentals of Big Data, Machine Learning (ML), and Artificial Intelligence.														
UNIT II		Module - 2											6	
AI for Marketing World, AI for the finance world and AI for Human resource Management.														
UNIT III		Module - 3											6	
AI in Food Industry, AI Driven Transformation: Economics and governance.														
Reference(s)														
1	https://sl-onlinetraining.wharton.upenn.edu/ai-program-for-decision-making													
Strategy(s)														
<ul style="list-style-type: none"> The student will be evaluated through assessment by an Industry panel formed under the approval of head of the department. 														



NOVITECH R&D PVT LTD

www.novitech.in



NoviTech
the innovation partner

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Ramnagar, Gandhipuram
Coimbatore. 641009

Kerala:

65/707, Basement Floor
Opp to AJ Hall, KK Road
Kaloor, Kochi. 682017

About NoviTech

Incepted in 2017, NoviTech R&D Pvt Ltd is a Hardware/Software Development, Technical training and Information technology services to the Corporate and Educational Institutions.

Our focused, Product/Project approach is derived from the cumulative experience of our team members. As a result of their combined practical experience with strong technology delivery capabilities, we are able to comprehend the client's business requirements, propose IT and creative solutions in line with the vision of the business and execute the business plan by building and implementing high quality scalable technical solutions through the use of cutting edge Technologies.



ur Vision

To become the leading edge technology provider in all over India by creating high quality products and services (Software & Hardware) in order to fulfill our clients' expectations and achieve measurable competitive advantage.

ur Mission

Our mission is to enhancing the business growth of our customers with Creative Design and Development to deliver market-defining high-quality solutions that create value and reliable competitive advantage for our clients around the world.



That make us the Premier Choice

Intellect & Experience

Highly skilled professionals who possess expertise in diverse Business and Techn areas make up the Business Technologies team. To provide world class service employ the best engineers; adhere to proven methodology, provide superior service and become a true business partner in every project.

Commitment to Quality

We believe in Quality service and our approach has been designed to provide same. We listen carefully to our clients and provide space, time and materials according to agreement for the project. We are proud of our Technical and Creative capability this emerges from taking time to get it right. Our Quality Technical Department throughout the process to ensure that the project will be successful.

On time Delivery

We invest the time up-front to clearly understand your needs and then manage projects to ensure they are delivered on time and within budget. This method expedites rapid successful implementation, limits uncertainty and keeps the customer always aware of development progress at our end.

Track Record

We have handled small - large scale projects and have over the years implemented solutions for numerous organizations of all sizes. Our growing list of satisfied customers not only act as our excellent references but are also a source of our repeat business.

Our Services to Educational Institutions

- Workshops
- Certified Value Added Courses
- Faculty Development Programs
- Internships / In-plant Training
- Seminar / Webinar
- One Credit Courses
- Project Guidance

Our Services to Industry

- Product Design and Development
- Research and Development
- Industrial Project
- Software Development Service

Our Technologies

- Embedded Systems
- Internet of Things
- Robotics
- Augmented Reality / Virtual Reality
- Artificial Intelligence
- Computer Vision
- Image Processing / Signal Processing
- Antenna / Wireless Communication
- VLSI / FPGA – Xilinx, Altera
- MatLab Simulations / Simulink
- Power Electronics / Power Systems
- Renewable Energy / E-Vehicles
- Machine Learning / Deep Learning
- Natural Language Processing
- Cloud Computing / Network security
- Application Development (apk, ios)
- Web Development
- React JS / Node JS / React - Native

↓ **FAREN'T – Intelligent Body temperature, Mask & Facial Recognition**

- Touchless Temperature Monitor
- Touchless Attendance Using Facial Recognition
- Central Database Upload of Temperature and Attendance
- Multiple Reports Can be Generated
- Mobile Application Integrated for Temperature and Attendance Notifications
- A Complete Automated System Providing a Safe Environment

↓ **Cot Measurement – This project is based on computer vision. It was automatically identifying the length*width by using cot image for chooses the perfect bed.**

↓ **Etta – Artificial Intelligence method for body measurement. It was use to online tailoring system.**



NoviTech
the innovation partner

Intelligent Body Temperature,
Mask & Facial Recognition

FAREN-T



M. K. K.

Head of The Department

Department of Artificial Intelligence & Machine Learning

M. K. K.

Tharayappalam, Katur - 639 113



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DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Date: 06.03.2023

Submitted to the Principal:

Sub: Requisition for Accommodation of Trainers - Reg.

Department of Artificial Intelligence is organizing One Credit Course on "AI for Decision Making" for the 2nd year AI & ML students on 07.03.2023 and 08.03.2023 at our campus. In this regard, we request you to provide accommodation for two trainers
Trainer's Name : 1. Mr.Muthuvel Ramesh T, Designation: Technical Head, Contact Number: 8015742858, 2. Mr.Muthukumar R, Designation: Project Engineer, Contact Number: 6385820684 from NoviTech R & D Private Limited, Coimbatore. The accommodation duration of trainers is from 06.03.2023 [Monday Evening] to 09.03.2023 [Thursday Morning]. Kindly, do the needful.

Thank you,

Yours Sincerely,

msh
06/3/23
Dr.N.M.Saravanakumar,
HOD / AI&DS.



cc
1) Office visit
2) mess Incharge
3) BOYS hostel warden

P. Prasad
6/3/23

Office

Page NO: 2902

Serial No: 29



ONE CREDIT COURSE



**DEPARTMENT OF
ARTIFICIAL INTELLIGENCE
AND
MACHINE LEARNING**

**TOPIC
AI FOR DECISION MAKING**

**RESOURCE PERSON
MR. MUTHUVEL RAMESH
MR. MUTHUKUMAR
NOVITECH R&D PRIVATE LIMITED,
COIMBATORE**

9.00 AM to 5.00 PM

06.03.2023

07.03.2023



**Dr. K. RAMAKRISHNAN
SECRETARY**

**Dr. B. S. MURUGAN
PRINCIPAL**

**Dr. S. KUPPUSAMY
EXECUTIVE DIRECTOR**

**Dr. N. M. SARAVANA KUMAR
HOD/AI**

lavanyas.al@mkce.ac.in Switch account



* Required

Email *

Your email

1. Pandas is used for? *

1 point

- working with data sets
- Data visualization
- Statistical analysis

2. ____ is an important library used for analyzing data *

1 point

- Math
- Random
- Pandas

3. What is the purpose of NumPy in Python? *

1 point

- To do scientific computing
- To do numerical calculations
- Both A and B

- Number in Python
- Numerical Python
- Numbering Python

5. ____ refers to converting the labels into numeric form so as to convert it into the machine-readable form. *

- Euclidean Distance
- Min-Max Normalization
- Label Encoding

6. Format of the dataset in python *

1 point

- JSON
- Comma-separated values
- xlsx

7. What is the module file used to split the data? *

1 point

- train_test_split
- label encoder
- standard scalar

8. Among the following option identify the one which is not a type of learning

1 point

- Reinforcement learning
- Supervised learning
- Unsupervised learning

9. Identify the type of learning in which labeled training data is used.

1 point

- Supervised learning
- Unsupervised learning
- Reinforcement learning

10. What is the term known as on which the machine learning algorithms build a model based on sample data?

1 point

- Transfer data
- Training data
- Data training

11. Machine learning is a subset of which of the following.

1 point

- Deep learning
- Artificial intelligence
- Data learning

12. Who is the founder of machine learning?

1 point

- Andrew Ng
- John McCarthy
- Arthur Samuel

13. Python was introduced in which year?

1 point

- 1999
- 1991
- 1995

14. What is the command used for installing module file?

1 point

- rpm
- pip
- apt

15. _____ is a part of machine learning that works with neural networks

1 point

- Artificial intelligence
- Deep learning
- Both A and B

- Regression problems
- Classification problems
- Both A and B

17. Who is the founder of python *

1 point

- Guido van Rossum
- James Gosling
- Arthur Samuel

18. Which machine learning models are trained to make a series of decisions based on the rewards and feedback they receive for their actions?

1 point

- Supervised learning
- Unsupervised learning
- Reinforcement learning

19. Real-Time decisions, Game AI, Learning Tasks, Skill acquisition, and Robot Navigation are applications of _____

1 point

- Unsupervised Learning
- Reinforcement Learning
- Supervised Learning

- Increasing complexity
- Answering probabilistic query
- Solving queries

21. What is called the average squared difference between classifier predicted output and actual output?

1 point

- Mean relative error
- Mean squared error
- Mean absolute error

22. The problem of finding hidden structure in unlabeled data is called...

1 point

- supervised learning
- unsupervised learning
- reinforcement learning

23. You are given reviews of few netflix series marked as positive, negative and neutral. Classifying reviews of a new netflix series is an example of

1 point

- supervised learning
- reinforcement learning
- unsupervised learning

24. If machine learning model output involves target variable then that model is called as _____

1 point

- descriptive model
- predictive model
- reinforcement learning

25. What is the module file that is used to improve the quality of the dataset.

1 point

- Standard scaler
- Label encoder
- NumPy

26. Supervised learning and unsupervised clustering both require which is correct according to the statement.

1 point

- output attribute.
- hidden attribute
- input attribute.

27. Some telecommunication company wants to segment their customers into distinct groups ,this is an example of

1 point

- supervised learning
- data extraction
- unsupervised learning

28. In simple term, machine learning is *

1 point

- training based on historical data
- prediction to answer a query
- both a and b

29. Prediction is _____ *

1 point

- the result of application of specific theory or rule in a specific case
- discipline in statistics used to find projections in multidimensional data
- value entered in database by expert

30. You are given seismic data and you want to predict next earthquake , this is an example of

1 point

- supervised learning
- reinforcement learning
- dimensionality reduction

31. Imagine a Newly-Born starts to learn walking. It will try to find a suitable policy to learn walking after repeated falling and getting up. specify what type of machine learning is best suited?

1 point

- classification
- regression
- reinforcement learning

- equals to two
- greater than two

32. Deep learning requires _____ *

1 point

- Massive amount of data
- Less amount of data
- Average amount of data

33. Machine learning is working is based on *

1 point

- Feature extraction
- Classification
- Both of the above

34. What is independent variable *

1 point

- Features
- Label
- None of the above

- Harmonic mean
- Hypoallergenic formula

36. What are the conditions in precision and recall to get high f1 score? *

1 point

- Precision - High ; Recall - Low
- Precision - Low ; Recall - High
- Both precision and Recall should be High

37. Who is the founder of deep learning? *

1 point

- Geoffrey Hinton
- Dennis M
- Bjarne Stroustrup

38. If the value of the precision is high and the value of the recall is low , what will be harmonic mean will do? *

1 point

- Punishes the larger value
- Punishes the Smaller value
- None of the above

39. Which modules should be used data visualization ? *

1 point

- Matplotlib and seaborn
- Scikit-learn
- Pandas

40. What is x_train? *

1 point

- 80% data of the features
- 20% data of the features
- 80% data of the label

41. What is x_test? *

1 point

- 20% data of the label
- 20% data of the features
- 80% data of the features

42. what is y_train? *

1 point

- 80% data of the label
- 80% data of the features
- 20% data of the label

43. what is y_test? *

1 point

- 20% data of the label
- 20% data of the features
- 80% data of the label

44. What is the formula used to find the recall? *

1 point

$$\text{Recall} = \frac{TP}{TP+FP}$$

$$\text{Recall} = \frac{TP}{TP+FN}$$

1

2

$$\text{Recall} = \frac{TP}{FP+FN}$$

3

$$\text{No. Of Correct Predictions} = \frac{TP+TN}{TP+FP+TN+FN}$$

1

$$\text{No. Of Correct Predictions} = \frac{FP+FN}{TP+FP+TN+FN}$$

2

$$\text{No. Of Correct Predictions} = \frac{TP+FP}{TP+FP+TN+FN}$$

3

$$\frac{\sum (Y_{pred} - y_0)^2}{\sum (y - y_0)^2}$$

1

$$\frac{\sum (x - x_0) (y - y_0)}{\sum (x - x_0)^2}$$

2

$$\frac{\sum (x - y) (x_0 - y_0)}{\sum (x - x_0)^2}$$

3

47. What is the formula used in K-Means clustering algorithm *

- Euclidean distance
- Harmonic mean
- Quadratic equation

48. What is the drawback of Machine Learning Comparing with Deep learning?

* 1 point

- Requires less amount of data
- Less Training Duration
- Less Accuracy

49. Choose the incorrect numerical functions in the various function representation of machine learning.

* 1 point

- Neural Network
- Linear regression
- Case-based

50. Artificial Intelligence is about_____ *

1 point

- Playing a game on Computer
- Making a machine Intelligent
- Programming on Machine with your Own Intelligence

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DEPARTMENT OF ARTIFICIAL INTELLIGENCE

One Credit Course on AI for Decision Making

ANSWER KEY

Question No	Answer	Question No	Answer
1	working with data sets	26	input attribute.
2	Pandas	27	unsupervised learning
3	Both A and B	28	both a and b
4	Numerical Python	29	the result of application of specific theory or rule in a specific case
5	Label Encoding	30	supervised learning
6	Comma-separated values	31	reinforcement learning
7	train_test_split	32	Massive amount of data
8	semi unsupervised learning	33	Both of the above
9	supervised learning	34	Features
10	Training data	35	Harmonic mean
11	Artificial Intelligence	36	Both precision and Recall should be High
12	Arthur Samuel	37	Geoffrey Hinton
13	1991	38	Punishes the larger value
14	pip	39	Matplotlib and seaborn
15	Deep learning	40	80% data of the features
16	Both A and B	41	20% data of the features
17	Guido van Rossum	42	80% data of the label
18	Reinforcement learning	43	20% data of the label
19	Reinforcement Learning	44	2
20	Answering probabilistic query	45	1
21	Mean squared error	46	2
22	unsupervised learning	47	Euclidean distance
23	supervised learning	48	Less Accuracy
24	predictive model	49	Case-based
25	Standard scalar	50	Making a machine Intelligent


 Faculty In-Charge


 HOD/AI
 Head of The Department
 Department of Artificial Intelligence & Machine Learning
 M. Kumarasamy College of Engineering,
 Thalavapalayam, Karur - 639 113.



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DEPARTMENT OF ARTIFICIAL INTELLIGENCE

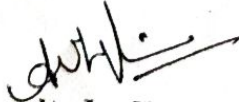
One Credit Course on AI for Decision Making


Mark Statement

S.No	Reg No.	Marks
1.	927621bal002	76
2.	927621bal003	84
3.	927621bal004	76
4.	927621bal005	76
5.	927621bal006	80
6.	927621bal007	86
7.	927621bal008	92
8.	927621bal009	88
9.	927621bal010	80
10.	927621bal012	88
11.	927621bal013	88
12.	927621bal014	84
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14.	927621bal016	96
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19.	927621bal021	80
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23.	927621bal025	76
24.	927621bal026	72
25.	927621bal027	78
26.	927621bal028	68
27.	927621bal029	64
28.	927621bal030	70
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30.	927621bal032	80

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49.	927621bal054	60
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56.	927621bal061	68
57.	927621bal062	58
58.	927621bal063	68
59.	927621bal301	72
60.	927621bal303	60

*Note: Test Conducted by NooviTech R & D Pvt Ltd, Coimbatore


Faculty In-Charge


HOD/A
Head of The Department
Department of Artificial Intelligence
M. K. ... College of
Thalavapara, Karur

Feedback Form: One Credit Course – “AI for Decision Making”

(06.03.2023 & 07.03.2023)

Full Name with Initial : SULAIMAN . S

Email ID : Sulaiman742@gmail.com

Department Name : ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Organization : M. KUNHARABAMY COLLEGE OF ENGINEERING

Feedback about the Session (1 – being the lowest & 5 – being the highest)

	5	4	3	2	1
Presentation Clarity	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Delivery of the Contents	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Quality of the take away from the course	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Video / Audio / PPT Quality	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

The Content of Course was useful and interesting?

- Strongly agree
- Agree
- Neutral
- Disagree
- Strongly disagree

PHOTOS – “AI for Decision Making”



Google
44

Karur, Tamil Nadu, India

M.Kumarasamy College of Engineering, Karur, Tamil Nadu 639006, India

Lat 11.055293°

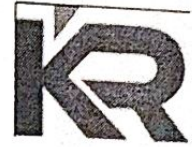
Long 78.048412°

06/03/23 03:45 PM

GPS Map Camera



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DEPARTMENT OF ARTIFICIAL INTELLIGENCE

Date: 09.03.2023

A Report on One Credit Course on the topic of "AI for Decision Making"

In order to gain knowledge in recent technologies, the department of AI has organized one credit course on "AI for Decision Making" for the II-year AIML students on 06.03.2023 (Tuesday) & 07.03.2023 (Wednesday).

Dr.N..M.Saravanakumar, Head of the Department, Artificial Intelligence has addressed the students and asked them to utilize the session and get benefited to the core. Mr.S.Lavanya, AP/AI &DS, MKCE, has introduced the resource person. The session was delivered by **Mr. Muthuvel Ramesh T**, Technical Head, NoviTech R&D Pvt Ltd, Coimbatore. The session was all about python, Machine learning algorithms such as Regression testing, Classification, clustering video presentation of different AI projects in agriculture, industry robots, medical instruments, etc. Finally, the session was concluded with assessment and feedback.

[Dr. N M Saravanakumar]

HoD/AI

Head of The Department

Department of Artificial Intelligence & Machine Learning

M. Kumarasamy College of Engineering.

Thalavapalayam, Karur - 639 113



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Post Event Analysis Report

Date: 09.03.2023

Event Title: **One Credit Course on AI for Decision Making**

Date on which the Event conducted: **06.03.2023 & 07.03.2023**

Name & Address of the Organizer(s): **Mrs.S.Lavanya/AP and Ms.A.Nithyasri/AP, Department of Artificial Intelligence, MKCE.**

Participant Feedback:

No. of Response received: 60

Overall rating

1. What did the attendee(s) like about the event?
 - a. Contents were deep and interesting
 - b. Trainers had lot of points to infer but time schedule was limited.
 - c. ML Tools usage in lab were interesting
 - d. Assessment questions are inline with the training, hence easy to recollect.
2. What could have been improved about the event suggested by the attendee(s)?
 - a. Time limit for the course can be extended
 - b. Anyone complete tool usage can be taught with applications

Resource Person(s)

1. What did the attendee(s) like about the event?
 - a. Students were very interested in learning and interactive.
 - b. Worked well in ML tool within the short time limit.
 - c. Faculty members were very supportive in conducting this training.
 - d. Assessments practices and feedback system is good
 - e. Accommodation was good.
2. What could have been improved about the event suggested by the resource person(s)?
 - a. Length of the event could be increased

Organizers feedback: (5 points)

Event Highlights (What worked well?)

(Please list the points about the event that you feel were particularly successful.)

- a. Coordination between students and the faculty members found to be good
- b. Well Organized Events and On-Time Management.
- c. Assessments practices and feedback system is good.

1. Issues (What problems did the event face?)

(Please list any problems you faced during the event and how you addressed them)

- a. NIL

2. Gap Analysis (Kindly do the analysis based on the feedback received from attendee(s), resource person(s) and the organizer(s))

- a. Resource persons from the industry can be inculcated so that the current technology trends can be known better.

Recommendations for Future Events (What didn't work well?)

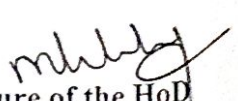
(Please provide what you feel didn't work out as you'd hoped and would recommend proceeding differently the next time a similar event is hosted.)

Weakness identified	Recommendations
Length of the event is limited	Value added course can be arranged

Challenges identified	Recommendations
Need to include more hands-on training	Hands-on training will be given in the future events

Opportunities identified	Recommendations
Many open source tools in ML are available to learn in online.	Online tools and various sites were identified and informed o students to learn by self


Signature of the Coordinator/Organizer


Signature of the HoD
Head of The Department
Department of Artificial Intelligence & Machine Learning
M. Kumarasamy College of Engineering
Tiruvavur, Tamil Nadu - 626 113



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KR
Civil

DEPARTMENT OF CIVIL ENGINEERING

Organizing

Value-added Course

on

“20CEVAC01 - SketchUp”

for

Second year students (Even Semester)

Date: 25-04-2023 to 29-04-2023

Timing: 09.00 am to 04.30 pm

Dr.K.Ramakrishnan
Secretary

Dr.S.Kuppusamy
Executive Director

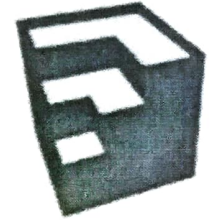
Dr.B.S.Murugan
Principal

Dr.V.Senthilkumar

HOD/Civil



Mr.G.Balaji, AP/Civil &
Mr.R.Vetturayasudharsanan AP/Civil
Co-Ordinator



Google SketchUp



DEPARTMENT OF CIVIL ENGINEERING

Organizing Value Added Course on

20CEVAC01 – SketchUp

for Second Year Students



Google SketchUp

Duration: 5 Days

Summary:

Requirements:

The intro to the course will cover how to download the free version of SketchUp which we will utilize for this class.

Description of the Course:

Google SketchUp is a free version of the 3D modeling program and it is specifically made for Architects and Civil Engineers. At the end of the course, enrolled students know how to use their tools and measures accurately. Students also get to experiment with mini projects along the way. At the end of the course, all students can create a building floorplan and work with groups or layers.

They will also know how to work with dynamic components and create sections and elevation. Special attention is given to kitchen designs. As a special addition, the course offers information on working with shadows. They know how to use different views of the model. Students also learn how to change various components if needed.

There is a certificate of completion awarded at the end of the course. But for this certificate to be awarded, students need to score 80% or higher in each assignment.

Learning Objectives

- Participants will be able to draw, modify and model forms for 3D modelling using SketchUp software.
- Participants will be able to model conceptual masses representing architectural form using SketchUp software.
- Participants will be able to model basic building elements and add variation using SketchUp software.
- Participants will be able to apply materials, edit graphic styles and create animations of your project using SketchUp software.

Course Instructors:

Mr. G. Balaji., M.E.,(Ph.D) AP/Civil, M.Kumarasamy College of Engineering.	Mr. R.Vetturayasudharsanan., M.E.,(Ph.D) AP/Civil, M.Kumarasamy College of Engineering.
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Course content/Schedule:

Module : 1 The Basics

- Opening SketchUp
- SketchUp Screen
- Toolbars
- Viewing Tools
- Shortcut Keys
- Drawing Tools (Line, Rectangle, Square, Push/Pull, Circle, Polygon, Arc)

Module : 2 Manipulation Tools

- Select
- Eraser
- Tape Measure
- Protractor
- Move and Copy
- Rotate and Copy
- Scale
- Offset
- Axes
- Displaying and Smoothing Edges

Module : 3 Intersect Faces and Follow Me

- Follow Me
- Intersect Faces
- Combining Follow Me and Intersect Faces

Module : 4 Making Multiple Copies

- Basic Move and Copy
- Internal Arrays
- Non-Orthogonal Copies
- Multiple Rotated Copies

Module : 5 Working with Roofs

- Simple Roofs and Dormers

Module : 6 Groups and Components

- Components Versus Groups
- Groups (Sticking, Edge Breaks, Nested, Solids)
- Components (3D Warehouse, Inserting, Scaling, Aligning)





Module : 7 Painting, Materials, and Textures

- Applying Materials.
- Editing Materials
- Using Images as Textures
- Material Collections
- Material Translucency
- Materials of Groups and Components

Module : 8 Adding Text and Dimensions

- Text
- Dimensions
- 3D Text

Module : 9 Using Exact Dimensions

- Creating Exact Geometry
- Entity Info
- Exact Moving and Copying
- Exact Rotated Copies
- Symmetry
- Measuring Length and Area
- Scaling in 3D

Module : 10 Extensions Overview (Demo Only)

- Extension Warehouse
- Installing Other Extensions
- Managing Extensions.
- Other Popular Extensions





Course Delivery Schedule

Day/Time	Session 1 (8 40 am - 10 20 am)		Session 2 (10 40 am - 12 20 pm)		Session 3 (01 10 pm - 02 50 pm)		Session 4 (03 00 pm - 04 30 pm)
Day 1 25-04-2023	Intro: Hello and Setting up your Workspace	Break	Quick SketchUp tour, Basic SketchUp tools	Break	Line, Freehand, Rectangle tool, moving around, select	Break	Push/pull tool, selection boxes, and the move tool
Day 2 26-04-2023	Copy Command, Grouping, Scaling, Views Toolbar, Circle, polygon tool		Copying with Array, Arc Tool and Save the model, 3D Warehouse and placing Components		Rotate Tool, Group vs Components, Paint Bucket Tool, Styles Toolbar, follow me tool		Scale tool, tape and dimension tool, protractor tool, Zoom, Zoom Extend, Zoom Window tool
Day 3 27-04-2023	Text tool, Position camera, look around, walk through, section plane tool, Import AutoCAD drawing in Sketchup		Drawing from floor plan, adding a Wall, adding a Door, creating a Window, Adding a Roof		Making layers(tags), Grouping Floors and Walls, creating a ceiling, Importing Textures and materials,		Dynamic Components, More about components
Day 4 28-04-2023	Furnishing the Room, Navigating through the model and scenes		Styles, Shadows		Elevation design		Export 2D and 3D images
Day 5 29-04-2023	Rendering: V-Ray Setup Installation Guidelines		Rendering: V-Ray Setup Installation Guidelines		Rendering Output from model		Assessment

[Signature]
Mr. G. Balaji AP/Civil

Course Instructor

[Signature]
Mr. R. Vetturayasudharsanan

AP/Civil
Course Instructor

[Signature]
Dr. V. Senthilkumar

HoD/Civil

Head of the Department
Department of Civil Engineering
M. Kumarasamy College of Engineering
(Autonomous) Karur - 639113.





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DEPARTMENT OF CIVIL ENGINEERING

Academic Year 2022-2023

20CEVAC01 – SketchUp



Google SketchUp

Course Objectives:

- Will be able to draw, modify and model forms for 3D modelling using SketchUp software.
- Will be able to model conceptual masses representing architectural form using SketchUp software.
- Will be able to model basic building elements and add variation using SketchUp software.
- Will be able to apply materials, edit graphic styles and create animations of your project using SketchUp software.

Course Outcomes:

- Prepare 3D design drawings for professional landscape design projects to supplement 2D plan-view drawings.
- Present 3D landscape design drawings to clients in order to fully explain and describe design concepts, spatial layout, and scale.
- Convert 2D plan view design drawings received from Architects and Engineers into 3D form.
- Convert topographic diagrams received from Land Surveyors into 3D model in order to evaluate and propose grade change.


Mr. G. Balaji AP/Civil

Course Instructor


Mr. R. Vetturayasudharsanan
AP/Civil

Course Instructor


Dr. V. Senthilkumar

HoD/Civil

Head of the Department
Department of Civil Engineering
**M. Kumarasamy College of Engineering
(Autonomous) Karur - 639113.**



**DEPARTMENT OF CIVIL ENGINEERING****ACADEMIC YEAR 2022-2023****Value-Added Course on "20CEVAC01 - SketchUp"****Student Attendance Sheet**

Year/Sem: II/IV

Batch: 2021-2025

S.No	Register No.	Student Name	25-04-2023	26-04-2023	27-04-2023	28-04-2023	29-04-2023
			FN/AN	FN/AN	FN/AN	FN/AN	FN/AN
1	927621BCE001	ABHINAV K	P	P	P	P	P
2	927621BCE002	ADHISH R	P	P	P	P	P
3	927621BCE003	ATSHAI B	P	P	P	P	P
4	927621BCE005	DHAKSHA P	P	P	P	P	P
5	927621BCE006	DHANUSHYA K	P	L	P	P	P
6	927621BCE007	DHARSANA BALAN S	P	P	P	P	P
7	927621BCE008	GURU VISHNU GUPTA A	P	P	P	P	P
8	927621BCE009	KAARTHICK V P	P	P	P	P	L
9	927621BCE010	KALAIARASI R	P	P	P	P	P
10	927621BCE011	KALIMUTHU P	P	P	P	P	P
11	927621BCE012	KANISHKAR K	P	P	P	P	P
12	927621BCE013	KAVINKUMAR C	P	P	P	P	P
13	927621BCE014	KAVIYA K	P	P	P	P	P
14	927621BCE015	LIBISHREE M	P	P	P	P	P
15	927621BCE016	LOGITH S	P	P	P	P	P
16	927621BCE017	MITHUN P V	P	P	P	P	P
17	927621BCE018	MOHAMED ABUBACKER M	P	P	P	P	P
18	927621BCE019	MOHAN PRASAD K	P	P	L	P	P
19	927621BCE020	MURUGANANTHAM S	P	P	P	P	P
20	927621BCE021	MUTHU S	P	P	P	P	P
21	927621BCE022	NANDHAKUMAR A	P	P	P	P	P
22	927621BCE023	NAVEENKUMAR C	P	P	P	P	P
23	927621BCE024	NAVEENKUMAR R	P	P	P	P	P
24	927621BCE025	NIKHITAVARSHA R K	P	P	P	P	P
25	927621BCE026	PARTHASARATHY R	P	P	P	P	P
26	927621BCE027	RAMANA P	P	P	P	P	P
27	927621BCE028	RITHIKA S	P	P	P	P	P
28	927621BCE029	ROSHAN AKHTAR B A	P	P	P	P	P
29	927621BCE030	SANJAY R	P	P	P	P	P
30	927621BCE031	SANJAY T	P	P	P	P	P
31	927621BCE033	SOWMIYA P	P	P	P	P	P
32	927621BCE034	YASWANTH A	P	P	P	P	P

S.No	Register No.	Student Name	25-04-2023	26-04-2023	27-04-2023	28-04-2023	29-04-2023
			FN/AN	FN/AN	FN/AN	FN/AN	FN/AN
33	927621BCE035	YUVARAJ A	P	P	P	P	P
34	927621BCE301	KARTHIKEYAN K	P	P	P	P	P
35	20BCE4303	HARI KRISHNAN S	P	P	L	P	P

G. Balaji
8/14/23
Course Instructor
(Mr.G.Balaji)



22/7/23
HoD/Civil
Head of the Department
Department of Civil Engineering
M. Kumarasamy College of Engineering
(Autonomous) Karur - 639113.

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DEPARTMENT OF CIVIL ENGINEERING

Value-Added Course on "20CEVAC01 - SketchUp"

ACADEMIC YEAR 2022-2023


Assessment marks

Year/Sem: II/IV

Batch: 2021-2025

S.No	Register No.	Student Name	Marks
			[100]
1	927621BCE001	ABHINAV K	90
2	927621BCE002	ADHISH R	85
3	927621BCE003	ATSHAI B	86
4	927621BCE005	DHAKSHA P	80
5	927621BCE006	DHANUSHYA K	90
6	927621BCE007	DHARSANA BALAN S	88
7	927621BCE008	GURU VISHNU GUPTA A	78
8	927621BCE009	KAARTHICK V P	84
9	927621BCE010	KALAIARASI R	90
10	927621BCE011	KALIMUTHU P	86
11	927621BCE012	KANISHKAR K	82
12	927621BCE013	KAVINKUMAR C	80
13	927621BCE014	KAVIYA K	88
14	927621BCE015	LIBISHREE M	85
15	927621BCE016	LOGITH S	78
16	927621BCE017	MITHUN P V	90
17	927621BCE018	MOHAMED ABUBACKER M	82
18	927621BCE019	MOHAN PRASAD K	76
19	927621BCE020	MURUGANANTHAM S	86
20	927621BCE021	MUTHU S	88
21	927621BCE022	NANDHAKUMAR A	80
22	927621BCE023	NAVEENKUMAR C	81
23	927621BCE024	NAVEENKUMAR R	86
24	927621BCE025	NIKHITAVARSHA R K	88
25	927621BCE026	PARTHASARATHY R	82
26	927621BCE027	RAMANA P	90
27	927621BCE028	RITHIKA S	88
28	927621BCE029	ROSHAN AKHTAR B A	80
29	927621BCE030	SANJAY R	88

S.No	Register No.	Student Name	Marks
			[100]
30	927621BCE031	SANJAY T	90
31	927621BCE033	SOWMIYA P	80
32	927621BCE034	YASWANTH A	84
33	927621BCE035	YUVARAJ A	81
34	927621BCE301	KARTHIKEYAN K	85


Course Instructor
(Mr. G. Balaji)




HoD/Civil

Head of the Department
Department of Civil Engineering
M. Kumarasamy College of Engineering
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DEPARTMENT OF CIVIL ENGINEERING

Organized

Value-added Course on



20CEVAC01 -SketchUp



COURSE COMPLETION CERTIFICATE

KR
Civil

This is to certify that

M.LIBISHREE

of Second Year Civil Engineering student has successfully completed the Value-added course on “**20CEVAC01-SketchUp**” through physical mode from 25-04-2023 to 29-04-2023 organised by the **Department of Civil Engineering** at **M.Kumarasamy College of Engineering, Karur** with a passing score of **100%**

Certificate ID: 4P2FMS-CE000034.

Co-ordinator

(Mr. G. Balaji AP/Civil)

Co-ordinator

(Mr.R.Vetturayasudharsanan AP/Civil)

HoD/Civil

(Dr.V.Senthilkumar)





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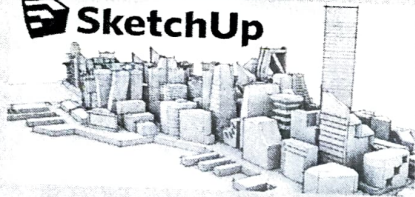
Thalavapalayam, Karur - 639 113.

DEPARTMENT OF CIVIL ENGINEERING

Organized

Value-added Course on

 **SketchUp**



20CEVAC01 -SketchUp



COURSE COMPLETION CERTIFICATE



This is to certify that

YASWANTH A

of Second Year Civil Engineering student has successfully completed the Value-added course on "**20CEVAC01-SketchUp**" through physical mode from 25-04-2023 to 29-04-2023 organised by the **Department of Civil Engineering** at **M.Kumarasamy College of Engineering, Karur** with a passing score of **93%**

Certificate ID: 4P2FMS-CE000033.



Co-ordinator

(Mr. G. Balaji AP/Civil)



Co-ordinator

(Mr.R.Vetturayasudharsanan AP/Civil)



HoD/Civil

(Dr.V.Senthilkumar)





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DEPARTMENT OF CIVIL ENGINEERING
cordially invites you for the

VALUE ADDED COURSE

on

“17CEVAC02 - 3D MODELLING USING REVIT ARCHITECTURE”

Date: 05.12.2022 – 09.12.2022

Time: 08.45 AM – 4.40 PM

Venue: Civil CAD Lab

Dr.K.Ramakrishnan
Secretary

Dr.S.Kuppusamy
Executive Director

Dr.N.Ramesh Babu
Principal

Dr.V.Senthilkumar
HOD/Civil

Mr.S.Ramkumar & Mr.R.Dineshkumar
Course Instructor



M.Kumarasamy College of Engineering, Karur

Department of Civil Engineering

17CEVAC02 - 3D MODELLING USING REVIT ARCHITECTURE

Course Overview

Building information modelling solutions create and operate on digital databases for collaboration, manage change throughout those databases so that a change to any part of the database is coordinated in all other parts, and capture and preserve information for reuse by additional industry-specific applications. Through the application of information technology to the problem of describing a building in software, they enable higher quality work, greater speed, and improved cost effectiveness for the design, construction, and operation of buildings. The course will focus on the starting stages of the Building Information Modelling concepts and then introducing the tools required to accomplish the BIM concepts throughout the course. The course starts with the initial phase of understanding the BIM concepts clearly. Each chapter within a Module will contain lectures on the BIM concepts which include the industry standards, demand in the industry etc.

Course Objective

Upon successful completion of the course, participants should be able to:

- Understand the stages of the Building Information Modelling concepts
- Understand the tools required to accomplish the BIM concepts
- Improve the architect's or Engineer's real work and making the building better
- Understand the functionalities under the building life cycle
- Create Building information modelling solutions

Course Outline

The contents of this course are designed to support the course objectives. The following focus areas are included in this course:

- **Module 1: Introduction to Building Information Modelling**
- **Module 2: The Mental Transition to BIM**
- **Module 3: Understanding Parameters, Attributes and Constraints**
- **Module 4: Standard Formats**
- **Module 5: Basic Modelling using Autodesk Revit Architecture- Introduction**
- **Module 6: Walls**
- **Module 7: Windows and Doors**
- **Module 8: Roofs**
- **Module 9: Floors and Ceilings**
- **Module 10: Staircase & Ramps**

Duration - 5 days



M.KUMARASAMY COLLEGE OF ENGINEERING, KARUR

DEPARTMENT OF CIVIL ENGINEERING

17CEVAC02 - 3D MODELLING USING REVIT ARCHITECTURE

Course delivery schedule

Date: 05.12.22 – 09.12.2022

Day/Time	Session 1 8.40am - 10.20 am		Session 2 10.40 am – 12.20 pm		Session 3 1.10Pm -3.00 Pm		Session 4 3.10 Pm- 4.40Pm
Day 1 05.12.22	Introduction- user interface	Break	Identify file types- Creating of walls, doors, windows	Lunch	Practice Session	Break	Creating of, doors, windows
Day 2 06.12.22	Wall editing tools		Practice Session		Floor - Editing of floors		Practice Session
Day 3 07.12.22	Sloped roof - wall sweep - wall opening		Practice Session		Ceiling - 3D camera view		Practice Session
Day 4 08.12.22	Rails - staircase - editing of stair		Practice Session		Creating multi storey – sectional view		Practice Session
Day 5 09.12.22	Landscaping -editing of lands scaping - structural modelling		Practice Session		Documentation - to create template- schedule -material take off-sheet preparation		Practice Session

Course Instructor



M.KUMARASAMY COLLEGE OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING
17CEVAC02 - 3D MODELLING USING REVIT ARCHITECTURE
VALUE ADDED COURSE - ATTENDANCE LIST

S. No.	Register Number	Name of the Student	05.12.2022	06.12.2022	07.12.2022	08.12.2022	09.12.2022
1	20BCE4001	BHAVADHARANI D	P	P	P	P	P
2	20BCE4002	BOOMINATHAN D	P	P	P	P	P
3	20BCE4003	DEEPIKA R	P	P	P	P	P
4	20BCE4004	DHANUSH KUMAR E	P	P	P	P	P
5	20BCE4005	DHARANIPRIYA P	P	P	P	P	P
6	20BCE4006	DHINESHKUMAR P K	P	P	P	P	P
7	20BCE4007	DINESH V	P	P	P	P	P
8	20BCE4008	ELANGO P	P	P	P	P	P
9	20BCE4009	GANEESH PRASANTH S	P	P	P	P	P
10	20BCE4010	HARIKRISHNAN K	P	P	P	P	P
11	20BCE4011	HARISH M	P	P	P	P	P
12	20BCE4012	JAYASRI R	P	P	P	P	P
13	20BCE4013	KANISHKKA R	P	P	P	P	P
14	20BCE4014	KOWSIKA V	P	P	P	P	P
15	20BCE4015	MADHURESH R	P	P	P	P	P
16	20BCE4016	MATHIVANAN V R	P	P	P	P	P
17	20BCE4017	MOHAMED ASICK M	P	P	P	P	P
18	20BCE4018	MUHAMMAD NIHAAL K	P	P	P	P	P
19	20BCE4019	NANDHA KUMAR P	P	P	P	P	P
20	20BCE4020	NAVEEN P	P	P	P	P	P
21	20BCE4021	PRASANTH M	P	P	P	P	P
22	20BCE4022	PRASATH S	P	P	P	P	P
23	20BCE4023	SANJAY S	P	P	P	P	P
24	20BCE4024	SANJITA S	P	P	P	P	P
25	20BCE4025	SURENDHAR S	P	P	P	P	P
26	20BCE4026	SURYA B	P	P	P	P	P
27	20BCE4027	SYED HUSSAIN S	P	P	P	P	P
28	20BCE4029	THIRUNAVUKKARASU G	P	P	P	P	P
29	20BCE4030	VASANTHAKUMAR S	P	P	P	P	P
30	20BCE4031	VISHNU L	P	P	P	P	P
31	20BCE4032	VISHWA S	P	P	P	P	P
32	20BCE4033	YASVANTH R	P	P	P	P	P
33	20BCE4301	BABU D	P	P	P	P	P
34	20BCE4302	SURESH E	P	P	P	P	P
35	20BCE4303	HARI KRISHNAN S	P	P	P	P	P
36	20BCE4304	AMIRTHAM M	P	P	P	P	P
37	20BCE4305	KESAVAN K	P	P	P	P	P
38	20BCE4307	SANTHOSH S	P	P	P	P	P
		Faculty Sign					

R. Shankar
 20/12/2022
 VALUE ADDED COURSE I/c

V. L. Jeyaraj
 HoD/CIVIL





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COLLEGE OF ENGINEERING
NAAC Accredited Autonomous Institution
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(Approved by AICTE and Affiliated to Anna University, Chennai)
Thalavapalayam, KARUR - 639 113.



Department of Civil Engineering

Academic year 2022 -23

17CEVAC02 - 3D Modelling using Revit Architecture Course summary

Course Objective :

Revit Architecture allows you as an engineer, architect, designer, or technician to design and document a virtual representation of your project. Revit Architecture is an integrated architectural design and documentation environment. You create a virtual built intelligent building elements. These smart, parametric building elements automatically adjust and interact with the design environment, and at the same time you are creating views such as floor plans, sections, elevations, schedules, and so on.

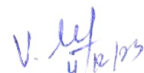
Course Outcome :

By learning this course students can able to

- Describe building information modeling methodology and its benefits.
- Use different parts of the Revit Architecture user interface and work with different types of architectural elements and families.
- Use the different views listed in the Project Browser, control the visibility and graphical, Representation of objects in architecture model, and work with elevation, section, and 3D views.
- Work with architectural components: Grids and Levels, Wall , Floors, Roof , Ceiling , Staircase , Railing , Revit Model Family
- Work with documentation components: Text, Tag, Title block, Schedules
- Work with detail views, add 3D and 2D elements and detail components.
- Work with sheets and title blocks, print sheets, and export Revit architecture content to CAD formats.


Course Instructor


Value Added Course i/c


HOD



M.KUMARASAMY COLLEGE OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING
17CEVAC02 - 3D MODELLING USING REVIT ARCHITECTURE
MARK STATEMENT

S. No.	Register Number	Name of the Student	TOTAL MARKS(100)	REMARKS
1	20BCE4001	BHAVADHARANI D	80	PASS
2	20BCE4002	BOOMINATHAN D	77	PASS
3	20BCE4003	DEEPIKA R	80	PASS
4	20BCE4004	DHANUSH KUMAR E	87	PASS
5	20BCE4005	DHARANIPRIYA P	83	PASS
6	20BCE4006	DHINESHKUMAR P K	87	PASS
7	20BCE4007	DINESH V	88	PASS
8	20BCE4008	ELANGO P	79	PASS
9	20BCE4009	GANEESH PRASANTH S	78	PASS
10	20BCE4010	HARIKRISHNAN K	76	PASS
11	20BCE4011	HARISH M	87	PASS
12	20BCE4012	JAYASRI R	94	PASS
13	20BCE4013	KANISHKKA R	94	PASS
14	20BCE4014	KOWSIKA V	85	PASS
15	20BCE4015	MADHURESH R	90	PASS
16	20BCE4016	MATHIVANAN V R	90	PASS
17	20BCE4017	MOHAMED ASICK M	83	PASS
18	20BCE4018	MUHAMMAD NIHAAL K	67	PASS
19	20BCE4019	NANDHA KUMAR P	76	PASS
20	20BCE4020	NAVEEN P	77	PASS
21	20BCE4021	PRASANTH M	70	PASS
22	20BCE4022	PRASATH S	88	PASS
23	20BCE4023	SANJAY S	92	PASS
24	20BCE4024	SANJITA S	83	PASS
25	20BCE4025	SURENDHAR S	78	PASS
26	20BCE4026	SURYA B	76	PASS
27	20BCE4027	SYED HUSSAIN S	82	PASS
28	20BCE4029	THIRUNAVUKKARASU G	91	PASS
29	20BCE4030	VASANTHAKUMAR S	91	PASS
30	20BCE4031	VISHNU L	88	PASS
31	20BCE4032	VISHWA S	68	PASS
32	20BCE4033	YASVANTH R	75	PASS
33	20BCE4301	BABU D	67	PASS
34	20BCE4302	SURESH E	67	PASS
35	20BCE4303	HARI KRISHNAN S	76	PASS
36	20BCE4304	AMIRTHAM M	77	PASS
37	20BCE4305	KESAVAN K	76	PASS
38	20BCE4307	SANTHOSH S	82	PASS

COURSE INSTRUCTOR



HoD/CIVIL



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Thalavapalayam, Karur - 639 113.

DEPARTMENT OF CIVIL ENGINEERING

Organized

Value-added Course on

**17CEVAC02 – 3D MODELLING
USING REVIT ARCHITECTURE**



COURSE COMPLETION CERTIFICATE



This is to certify that

BHAVADHARANI D

of Third Year Civil Engineering student has successfully completed the Value-added course on "3D Modelling using Revit Architecture" from 05-12-2022 to 09-12-2022, organised by the Department of Civil Engineering at M.Kumarasamy College of Engineering, Karur.

Course Instructor
Mr.S.RAMKUMAR
(AP/Civil)

Course Instructor
Mr.R.DINESHKUMAR
(AP/Civil)

HoD/Civil
Dr.V.SENTHILKUMAR





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DEPARTMENT OF CIVIL ENGINEERING

Organized

Value-added Course on

**17CEVAC02 – 3D MODELLING
USING REVIT ARCHITECTURE**



COURSE COMPLETION CERTIFICATE

KR
Civil

This is to certify that

MOHAMED ASICK M

of Third Year Civil Engineering student has successfully completed the Value-added course on "3D Modelling using Revit Architecture" from 05-12-2022 to 09-12-2022, organised by the Department of Civil Engineering at M.Kumarasamy College of Engineering, Karur.

Course Instructor

Mr.S.RAMKUMAR

(AP/Civil)

Course Instructor

Mr.R.DINESHKUMAR

(AP/Civil)

HoD/Civil

Dr.V.SENTHILKUMAR



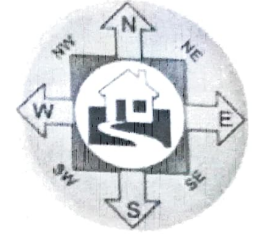


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DEPARTMENT OF CIVIL ENGINEERING

Organizing
Value Added Course
on



“17CEVAC01 – Vasthu and Planning Aspects in Civil Engineering” for Second Year

Date: 12-09-2022 to 16-09-2022

Timing: 08.45 am to 04.40 pm

Dr.K.Ramakrishnan
Secretary

Dr.V.Senthilkumar
HOD/Civil

Dr.S.Kuppusamy
Executive Director

Venue: Civil CAD Lab

Dr.N.Ramesh Babu
Principal

Mr.P.Mukesh, AP/Civil
Mrs.M.Kanitha, AP/Civil
Course Instructor





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Approved by AICTE & Affiliated to Anna University
ESTD 2001-2013 & 2017 (AICTE 2013) & 2017 (AICTE 2017)
Thalavayalayan, Karur - 638 113

M.Kumarasamy College of Engineering, Karur

Department of Civil Engineering

**17CEVAC01- VASTHU AND PLANNING ASPECTS IN CIVIL
ENGINEERING**

Theory Session:

Vasthu introduction, directions, location of rooms, building bye laws, community open spaces and amenities, distance from electric lines, sanitary arrangements and requirements for different types of building, occupancy classification, front rear space, staircase, parking regulations, floor area ratio, types of building, occupancy load, lifts, facility for differently-abled people, building plan approval, rules and regulation.

Laboratory Session:

Preparation of Building approval plan as per bye laws

Duration - 5 days (40 HRS)


Prepared By


HOD

**Head of the Department
Department of Civil Engineering
M. Kumarasamy College of Engineering
(Autonomous) Karur - 639113.**



M.Kumarasamy College of Engineering, Karur

Department of Civil Engineering

**17CEVAC01- VASTHU AND PLANNING ASPECTS IN CIVIL
ENGINEERING**

Day 1:

Theory Session

Vasthu introduction, directions, location of rooms

Day 2:

Theory Session

Building bye laws, community open spaces and amenities, distance from electric lines, sanitary arrangements and requirements for different types of building

Day 3:

Theory Session

Occupancy classification, front rear space, staircase, parking regulations, floor area ratio, types of building, occupancy load, lifts, facility for differently-abled people

Day 4:

Theory & Pratical Session

Preparation of Building approval plan as per bye laws, Preparation of Multi storey building Approval plan

Day 5:

Theory Session:

Building plan approval, rules and regulation

Duration - 5 days


Prepared By


HOD



**Head of the Department
Department of Civil Engineering
M. Kumarasamy College of Engineering
(Autonomous) Karur - 639113.**

DEPARTMENT OF CIVIL ENGINEERING



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ACADEMIC YEAR 2022-2023

VALUE ADDED COURSE ON

17CEVAC01- VASTHU AND PLANNING ASPECTS IN CIVIL ENGINEERING

BATCH : 2021 - 25

DATE: 12.09.2022 to 16.09.2022

Sl. No.	Reg. Name	Name of the Student	12.9.22	13.9.22	14.9.22	15.9.22	16.9.22
1	927621BCE001	ABHINAV K	/	/	/	/	/
2	927621BCE002	ADHISH R	/	/	/	/	/
3	927621BCE003	ATSHAI B	/	/	/	/	/
4	927621BCE004	BALAJI B	/	/	/	/	/
5	927621BCE005	DHAKSHA P	/	/	/	/	/
6	927621BCE006	DHANUSHYA K	/	/	/	/	/
7	927621BCE007	DHARSANA BALAN S	/	/	/	/	/
8	927621BCE008	GURU VISHNU GUPTA A	/	/	/	/	/
9	927621BCE009	KAARTHICK V P	/	/	/	/	/
10	927621BCE010	KALAIARASI R	/	/	/	/	/
11	927621BCE011	KALIMUTHU P	/	/	/	/	/
12	927621BCE012	KANISHKAR K	/	/	/	/	/
13	927621BCE013	KAVINKUMAR C	/	/	/	/	/
14	927621BCE014	KAVIYA K	/	/	/	/	/
15	927621BCE015	LIBISHREE M	/	/	/	/	/
16	927621BCE016	LOGITH S	/	/	/	/	/
17	927621BCE017	MITHUN P V	/	/	/	/	/
18	927621BCE018	MOHAMED ABUBACKER M	/	/	/	/	/
19	927621BCE019	MOHAN PRASAD K	/	/	/	/	/
20	927621BCE020	MURUGANANTHAM S	/	/	/	/	/
21	927621BCE021	MUTHU S	/	/	/	/	/
22	927621BCE022	NANDHAKUMAR A	/	/	/	/	/



23	927621BCE023	NAVEENKUMAR C	/	/	/	/	/
24	927621BCE024	NAVEENKUMAR R	/	/	/	/	/
25	927621BCE025	NIKHITAVARSHA R K	/	/	/	/	/
26	927621BCE026	PARTHASARATHY R	/	/	/	/	/
27	927621BCE027	RAMANA P	/	/	/	/	/
28	927621BCE028	RITHIKA S	/	/	/	/	/
29	927621BCE029	ROSHAN AKHILAR B A	/	/	/	/	/
30	927621BCE030	SANJAY R	/	/	/	/	/
31	927621BCE031	SANJAY T	/	/	/	/	/
32	927621BCE033	SOWMIYA P	/	/	/	/	/
33	927621BCE034	YASWANTHA A	/	/	/	/	/
34	927621BCE035	YUVARAJ A	/	/	/	/	/
35	927621BCE301	KARTHIKEYAN K	/	/	/	/	/
FACULTY I/C			<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

[Signature]
FACULTY I/C

[Signature]
HoD/CIVIL



Head of the Department
Department of Civil Engineering
M. Kumarasamy College of Engineering
(Autonomous) Karur - 639113.



DEPARTMENT OF CIVIL ENGINEERING
value-Added Course on

17CEVAC01- VASTHU AND PLANNING ASPECTS IN CIVIL ENGINEERING

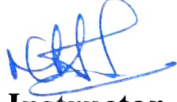
Academic Year: 2022 - 2023 (ODD)

2021 - 25 Batch Students

Mark Statement Sheet

Sl. No	Reg. Name	Name of the Student	Marks (100)
1	927621BCE001	ABHINAV K	89
2	927621BCE002	ADHISH R	62
3	927621BCE003	ATSHAI B	90
4	927621BCE004	BALAJI B	50
5	927621BCE005	DHAKSHA P	76
6	927621BCE006	DHANUSHYA K	88
7	927621BCE007	DHARSANA BALAN S	61
8	927621BCE008	GURU VISHNU GUPTA A	50
9	927621BCE009	KAARTHICK V P	55
10	927621BCE010	KALAIARASI R	91
11	927621BCE011	KALIMUTHU P	64
12	927621BCE012	KANISHKAR K	69
13	927621BCE013	KAVINKUMAR C	85
14	927621BCE014	KAVIYA K	88
15	927621BCE015	LIBISHREE M	87
16	927621BCE016	LOGITH S	86
17	927621BCE017	MITHUN P V	93
18	927621BCE018	MOHAMED ABUBACKER I	84
19	927621BCE019	MOHAN PRASAD K	65
20	927621BCE020	MURUGANANTHAM S	76
21	927621BCE021	MUTHU S	94
22	927621BCE022	NANDHAKUMAR A	73
23	927621BCE023	NAVEENKUMAR C	72
24	927621BCE024	NAVEENKUMAR R	75
25	927621BCE025	NIKHITAVARSHA R K	87
26	927621BCE026	PARTHASARATHY R	71
27	927621BCE027	RAMANA P	69
28	927621BCE028	RITHIKA S	87

29	927621BCE029	ROSHAN AKHTAR B A	94
30	927621BCE030	SANJAY R	70
31	927621BCE031	SANJAY T	95
32	927621BCE033	SOWMIYA P	87
33	927621BCE034	YASWANTH A	73
34	927621BCE035	YUVARAJ A	77
35	927621BCE301	KARTHIKEYAN K	50



Course Instructor



HoD/Civil



**Head of the Department
Department of Civil Engineering
M. Kumarasamy College of Engineering
(Autonomous) Karur - 639113.**

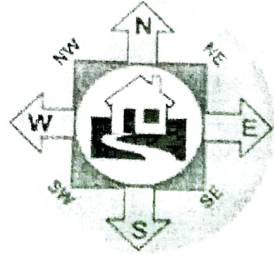


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COURSE COMPLETED CERTIFICATE

This is to certify that

ABHINAV K

of Second Year - Civil Engineering has successfully

Completed the value-added course on **VASTHU AND PLANNING ASPECTS**
IN CIVIL ENGINEERING from 12.09.2022 to 16.09.2022 organized by the

Department of Civil Engineering,

M. Kumarasamy College of Engineering, Karur.

Co - Ordinator

(Mr. P. Mukesh & Mrs. M. Kanitha)

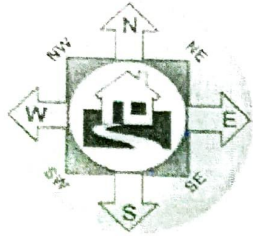


HoD/Civil

(Dr. V. Senthil Kumar)



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COURSE COMPLETED CERTIFICATE

This is to certify that

YASWANTH A

of Second Year - Civil Engineering has successfully

Completed the value-added course on **VASTHU AND PLANNING ASPECTS**
IN CIVIL ENGINEERING from **12.09.2022** to **16.09.2022** organized by the

Department of Civil Engineering,

M. Kumarasamy College of Engineering, Karur.

Co-Ordinator

(Mr. P. Mukesh & Mrs. M. Kanitha)



HoD/Civil

(Dr. V. Senthil Kumar)



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Thalavapalayam, KARUR - 639 113.

Department of Civil Engineering

Academic year 2022 -23

**17CEVAC01- VASTHU AND PLANNING ASPECTS IN CIVIL
ENGINEERING**

Course Objective:

Vastu Shastra compliant layouts are intended to integrate architecture with nature, the relative functions of various parts of the structure, and ancient beliefs utilizing various natural energies, planning and placements, and directional alignments. The short-term Vastu Shastra course teaches the importance of five senses & five elements of nature for a harmonious and satisfactory balance in mind and soul. The course conveys an intense knowledge of research-based methodical aspects of Vastu Shastra. The students will be able to create synergy between human, abode & nature for a greater state of faith.

Course Outcome :

By learning this course students can able to

- Evaluate, suggest & enhance the quality of the space by opting for a Vedic – scientific interior design layouts.
- Understand the Application of vastu Sastra and Science of vastu sastra.
- Evaluate the selection of plot /land and effect of corners.
- Evaluate the internal planning of the house.
- Study of I, L, U, E shape building
- Learn about the vastu in factories, bank, Educational facilities.
- Evaluate the house plan and remedies,


Value Added Course Incharge


HOD

Head of the Department
Department of Civil Engineering
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Cordially invites you for the

ONE CREDIT COURSE ON "MONGODB"

for second year students(Batch:2020 - 2024)

RESOURCE PERSONS

DATE:19.05.2022 - 20.05.2022

Mr.A.MOHAMED NAWFAL
FANLAW TECHNOLOGIES
HYDERABAD

Mr.P.KANNAN
INFOSYS
CHENNAI



CSE LABORATORY

Dr.K.RAMAKRISHNAN
SECRETARY

Dr.S.KUPPUSAMY
EXECUTIVE DIRECTOR

Dr.N.RAMESH BABU
PRINCIPAL

Dr. S.THILAGAMANI
HOD-CSE

Mr.V. MANI
COORDINATOR

Dr. S.THILAGAMANI, M.E.,Ph.d.,
Professor & Head
Computer Science & Engineering
M. Kumarasamy College Of Engineering
Karur - 639 113



Mani V <maniv.cse@mkce.ac.in>

One Credit Course - MONGODB - II Year / IV Semester Students(Batch:2020-2024) - Reg

Wed, May 18, 2022 at 5:35 PM

Mani V <maniv.cse@mkce.ac.in>
 To: faculty@mkce.ac.in, Principal MKCE <principal@mkce.ac.in>, hod@mkce.ac.in, MKCE TV <mkcetelevision@gmail.com>, Principal Pa <patoprincipal@mkce.ac.in>

Respected Sir/Madam,

We are happy to inform you that Computer Science and Engineering is organizing a one credit Course on "**MONGODB**" for the II Year/ IV Semester students(Batch:2020-2024) from 19.05.2022 to 20.05.2022. Kindly find the attachment.

 Regards,
V.MANI M.E.,(Ph.D)
Assistant Professor/CSE,
M.Kumarasamy College of Engineering(Autonomous),
Karur-639 113.
Ph.No. 9677862406
Whatsapp :9677862406



MONGODB.jpg
 154K

S. Thilagamani

Dr. S. THILAGAMANI, M.E., Ph.d.,
Professor & Head
Computer Science & Engineering
M. Kumarasamy College Of Engineering
Karur - 639 113



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
II YEAR / IV SEMESTER[BATCH : 2020-2024]
ONE CREDIT COURSE - 18CSX007L - MongoDB

S.no	Date	Time	Topics to be Covered
1	19.05.2022	09.00 am - 10.00 am	NoSQL Database
2		10.00 am - 11.00 am	MongoDB Introduction
3		11.00 am - 12.00 pm	Advantages over RDBMS
4		12.00 pm - 01.00 pm	Atlas, Data Types
5		02.00 pm - 03.00 pm	Operators, CRUD Operations
6		03.00 pm - 04.00 pm	Indexing, Aggregation, Replication
7		04.00 pm - 05.00 pm	Sort Record
8		05.00 pm - 06.00 pm	Sharding
9	20.05.2022	09.00 am - 10.00 am	Limit, Regular Expression
10		10.00 am - 11.00 am	Text Search
11		11.00 am - 12.00 pm	ObjectId
12		12.00 pm - 01.00 pm	Relationships
13		02.00 pm - 03.00 pm	MongoDB Compass
14		03.00 pm - 04.00 pm	BI Connector
15		04.00 pm - 05.00 pm	MongoDB
16		05.00 pm - 06.00 pm	Java vs MongoDB

V.m
21/5/22

COURSE COORDINATOR

S.T.F

HOD - CSE

Dr. S.THILAGAMANI, M.E., Ph.d.,
Professor & Head
Computer Science & Engineering
M. Kumarasamy College Of Engineering
Karur - 639 113



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

II YEAR / IV SEM (2020 - 2024)

ONE CREDIT COURSE - 18CSX007L MONGODB

ATTENDANCE DETAILS

Sl.No	Reg. No.	First Name	19.05.2022		20.05.2022	
			FN	AN	FN	AN
1	20BCS4001	ABISHECK S	S. Abishek	S. Abishek	S. Abishek	S. Abishek
2	20BCS4002	ABISHEK R	R. Abishek	R. Abishek	R. Abishek	R. Abishek
3	20BCS4003	AJAYVISHWA R	R. Ajay Vishwa	R. Ajay Vishwa	R. Ajay Vishwa	R. Ajay Vishwa
4	20BCS4004	ALEXANDER E	Alexander	Alexander	Alexander	Alexander
5	20BCS4005	ARAVIND RAJ S	S. Aravind	S. Aravind	S. Aravind	S. Aravind
6	20BCS4006	ARUNASS NV	Arjun N.V	Arjun N.V	Arjun N.V	Arjun N.V
7	20BCS4007	ARUNKUMAR G	G. Arun Kumar	G. Arun Kumar	G. Arun Kumar	G. Arun Kumar
8	20BCS4008	ARUNKUMAR K	K. Arun Kumar	K. Arun Kumar	K. Arun Kumar	K. Arun Kumar
9	20BCS4009	ARUNKUMAR R	R. Arun Kumar	R. Arun Kumar	R. Arun Kumar	R. Arun Kumar
10	20BCS4010	ASHOK KUMAR C	C. Ashok	C. Ashok	C. Ashok	C. Ashok
11	20BCS4011	ASWIN KUMAR R	R. Aswin Kumar	R. Aswin Kumar	R. Aswin Kumar	R. Aswin Kumar
12	20BCS4012	ASWIN S	S. Aswin	S. Aswin	S. Aswin	S. Aswin
13	20BCS4013	BHARATHIDHASAN M	M. Bharathidasan	M. Bharathidasan	M. Bharathidasan	M. Bharathidasan
14	20BCS4014	BHAVADHARANI M	M. Bhavadharani	M. Bhavadharani	M. Bhavadharani	M. Bhavadharani
15	20BCS4015	CHANDRU E	E. Chandru	E. Chandru	E. Chandru	E. Chandru
16	20BCS4016	DEVASENA T	T. Devasena	T. Devasena	T. Devasena	T. Devasena

Sl.No	Reg. No.	First Name	19.05.2022		20.05.2022	
			FN	AN	FN	AN
17	20BCS4017	DHANUSH J	J.Dht	J.Dht	J.Dht	J.Dht
18	20BCS4018	DHANUSHPATHY K	Dhushp	Dhushp	Dhushp	Dhushp
19	20BCS4019	DHARANI S	S.Dhrij	S.Dhrij	S.Dhrij	S.Dhrij
20	20BCS4020	DHARSHINI R	R.H.	R.H.	R.H.	R.H.
21	20BCS4021	DINESH P	P.DL	P.DL	P.DL	P.DL
22	20BCS4022	DINESHWARAN S	S.Dinsh	S.Dinsh	S.Dinsh	S.Dinsh
23	20BCS4023	GOKULRAJ V	V.Gulraj	V.Gulraj	V.Gulraj	V.Gulraj
24	20BCS4024	GOWTHAM DHARMA E	E.Gowtham	E.Gowtham	E.Gowtham	E.Gowtham
25	20BCS4025	GOWTHAMAN N	N.Gowtham	N.Gowtham	N.Gowtham	N.Gowtham
26	20BCS4026	HARANI S	S.Hari	S.Hari	S.Hari	S.Hari
27	20BCS4027	HARIIVARTHINI R	R.Harith	R.Harith	R.Harith	R.Harith
28	20BCS4028	HARISH S	S.Harish	S.Harish	S.Harish	S.Harish
29	20BCS4029	HARISHMA R	R.Harishma	R.Harishma	R.Harishma	R.Harishma
30	20BCS4030	HARITHA J	J.Haritha	J.Haritha	J.Haritha	J.Haritha
31	20BCS4031	HEMA R	R.Hema	R.Hema	R.Hema	R.Hema
32	20BCS4032	HEMANDH M S	S.Hemadh	S.Hemadh	S.Hemadh	S.Hemadh
33	20BCS4033	JANANI M	M.Janani	M.Janani	M.Janani	M.Janani
34	20BCS4034	JAYASHREE S	S.Jayashree	S.Jayashree	S.Jayashree	S.Jayashree
35	20BCS4035	KARTHICK R	R.Karthick	R.Karthick	R.Karthick	R.Karthick
36	20BCS4036	KARTHIKA RS	S.Karthika	S.Karthika	S.Karthika	S.Karthika
37	20BCS4037	KARTHIKEYAN V V	V.V.Karthikeyan	V.V.Karthikeyan	V.V.Karthikeyan	V.V.Karthikeyan
38	20BCS4038	KATHIRESH P	P.Kathires	P.Kathires	P.Kathires	P.Kathires
39	20BCS4039	KAVINKUMAR V N	V.N.Kavinkumar	V.N.Kavinkumar	V.N.Kavinkumar	V.N.Kavinkumar
40	20BCS4040	KAVITHRA T	T.Kavithra	T.Kavithra	T.Kavithra	T.Kavithra

Sl.No	Reg. No.	First Name	19.05.2022		20.05.2022	
			FN	AN	FN	AN
41	20BCS4041	KAVIYA M	Kaviya . M	Kaviya . M	Kaviya . M	Kaviya . M
42	20BCS4042	KAYALVIZHI D	D. Kuy	D. Kuy	D. Kuy	D. Kuy
43	20BCS4043	KEERTHANA K	Keerthana . k	Keerthana . k	Keerthana . k	Keerthana . k
44	20BCS4044	KIRITHICK KANNAN S	S. Kirithick	S. Kirithick	S. Kirithick	S. Kirithick
45	20BCS4045	KISHORE P	P. Kishore	P. Kishore	P. Kishore	P. Kishore
46	20BCS4046	KUMARAN B	B. Kumara	B. Kumara	B. Kumara	B. Kumara
47	20BCS4047	KUMARAVELAVAN J	J. Kumavelavan	J. Kumavelavan	J. Kumavelavan	J. Kumavelavan
48	20BCS4048	LAKSHEDHA P	P. Lakshadha	P. Lakshadha	P. Lakshadha	P. Lakshadha
49	20BCS4049	LATHIKA R	R. Lathika	R. Lathika	R. Lathika	R. Lathika
50	20BCS4050	LAVANYA R	R. Lavanya	R. Lavanya	R. Lavanya	R. Lavanya
51	20BCS4051	LOGASAMRAJ S	S. Logasamraj	S. Logasamraj	S. Logasamraj	S. Logasamraj
52	20BCS4052	LOGESHWARAN ST	ST. Logeshwaran	ST. Logeshwaran	ST. Logeshwaran	ST. Logeshwaran
53	20BCS4053	LOGESWARI S	S. Logeswari	S. Logeswari	S. Logeswari	S. Logeswari
54	20BCS4054	MADHAVAN V	V. Madhavan	V. Madhavan	V. Madhavan	V. Madhavan
55	20BCS4301	AJITH A	A. Ajith	A. Ajith	A. Ajith	A. Ajith
56	20BCS4302	ASHIKH BABU K	K. Ashikh Babu	K. Ashikh Babu	K. Ashikh Babu	K. Ashikh Babu
57	20BCS4303	HARIHARAN G	G. Hariharan	G. Hariharan	G. Hariharan	G. Hariharan
58	20BCS4305	MOHAMED NOWFAL S	S. Nowfal	S. Nowfal	S. Nowfal	S. Nowfal
59	20BCS4055	MADHUBALAN M	M. Madhubalan	M. Madhubalan	M. Madhubalan	M. Madhubalan
60	20BCS4056	MADHUMITHA U	U. Madhumitha	U. Madhumitha	U. Madhumitha	U. Madhumitha
61	20BCS4057	MANJU S	S. Manju	S. Manju	S. Manju	S. Manju
62	20BCS4058	MANOJ B	B. Manoj	B. Manoj	B. Manoj	B. Manoj
63	20BCS4059	MEYKEERTHI S	S. Meykeerthi	S. Meykeerthi	S. Meykeerthi	S. Meykeerthi

Sl.No	Reg. No.	First Name	19.05.2022		20.05.2022	
			FN	AN	FN	AN
64	20BCS4060	MIDHUNAA VS	V. S. Midhunaa	V. S. Midhunaa	V. S. Midhunaa	V. S. Midhunaa
65	20BCS4061	MOHAN A	A. Mohan	A. Mohan	A. Mohan	A. Mohan
66	20BCS4062	MOHAN KUMAR S	S. Mohan	S. Mohan	S. Mohan	S. Mohan
67	20BCS4063	MOUNIKA V	V. Mounika	V. Mounika	V. Mounika	V. Mounika
68	20BCS4064	MOUNISH KUMAR P	P. Mounish	P. Mounish	P. Mounish	P. Mounish
69	20BCS4065	NAGUL JG	J. G. Nagul	J. G. Nagul	J. G. Nagul	J. G. Nagul
70	20BCS4066	NANDHAKUMAR E	E. Nandhakumar	E. Nandhakumar	E. Nandhakumar	E. Nandhakumar
71	20BCS4067	NAVEEN M	M. Naveen	M. Naveen	M. Naveen	M. Naveen
72	20BCS4068	NAVEENA M	M. Naveena	M. Naveena	M. Naveena	M. Naveena
73	20BCS4069	NITHISH KUMAR S	S. Nithish Kumar	S. Nithish Kumar	S. Nithish Kumar	S. Nithish Kumar
74	20BCS4070	NITHYA N	N. Nithya	N. Nithya	N. Nithya	N. Nithya
75	20BCS4071	PRADEEPKUMAR R	R. Pradeep Kumar	R. Pradeep Kumar	R. Pradeep Kumar	R. Pradeep Kumar
76	20BCS4072	PRAVIN M	M. Pravin	M. Pravin	M. Pravin	M. Pravin
77	20BCS4073	RAGUL RAM S.G	S. G. Ragul Ram	S. G. Ragul Ram	S. G. Ragul Ram	S. G. Ragul Ram
78	20BCS4074	RAJASHIVA A	A. Rajashiva	A. Rajashiva	A. Rajashiva	A. Rajashiva
79	20BCS4075	RAMANIKANTH M	M. Ramanikanth	M. Ramanikanth	M. Ramanikanth	M. Ramanikanth
80	20BCS4076	RAMYA K	K. Ramya	K. Ramya	K. Ramya	K. Ramya
81	20BCS4077	RHYTHUM KRISHNHA S	S. Rhythum Krishnha	S. Rhythum Krishnha	S. Rhythum Krishnha	S. Rhythum Krishnha
82	20BCS4078	RUBIKA V	V. Rubika	V. Rubika	V. Rubika	V. Rubika
83	20BCS4079	SANJAY KUMAR S	S. Sanjay Kumar	S. Sanjay Kumar	S. Sanjay Kumar	S. Sanjay Kumar
84	20BCS4080	SANJAY M	M. Sanjay	M. Sanjay	M. Sanjay	M. Sanjay
85	20BCS4081	SANJAY P	P. Sanjay	P. Sanjay	P. Sanjay	P. Sanjay
86	20BCS4082	SANTHOSH N	N. Santhosh	N. Santhosh	N. Santhosh	N. Santhosh
87	20BCS4083	SANTHOSH P	P. Santhosh	P. Santhosh	P. Santhosh	P. Santhosh

Sl.No	Reg. No.	First Name	19.05.2022		20.05.2022	
			FN	AN	FN	AN
88	20BCS4084	SHARANRAJ K	Shu Raj	Shu Raj	Shu Raj	Shu Raj
89	20BCS4085	SHARMI K	K. Sharmi	K. Sharmi	K. Sharmi	K. Sharmi
90	20BCS4086	SHIVANI S	Sivani S	Sivani S	Sivani S	Sivani S
91	20BCS4087	SHOFIYA A	Shofiya A	Shofiya A	Shofiya A	Shofiya A
92	20BCS4088	SRINEETHI U K	ABSENT			
93	20BCS4089	SRINITHI B	Srinithi B	Srinithi B	Srinithi B	Srinithi B
94	20BCS4090	SUDHARSAN K	Sudharsan K	Sudharsan K	Sudharsan K	Sudharsan K
95	20BCS4091	SUDHARSHAN R	Sudharshan R	Sudharshan R	Sudharshan R	Sudharshan R
96	20BCS4092	SUPREETHA B	B. Supreetha	B. Supreetha	B. Supreetha	B. Supreetha
97	20BCS4093	SUTHARSAN V	V. Sutharsan	V. Sutharsan	V. Sutharsan	V. Sutharsan
98	20BCS4094	SUWATHIKA K	M. Suwathika	M. Suwathika	M. Suwathika	M. Suwathika
99	20BCS4095	SWETHA M	M. Swetha	M. Swetha	M. Swetha	M. Swetha
100	20BCS4096	THIRUKUMARAN K	Thirukumaran K	Thirukumaran K	Thirukumaran K	Thirukumaran K
101	20BCS4097	THRISHMA BA	B.A. Thrishma	B.A. Thrishma	B.A. Thrishma	B.A. Thrishma
102	20BCS4098	THULASIMANI VV	V.V. Thulasimani	V.V. Thulasimani	V.V. Thulasimani	V.V. Thulasimani
103	20BCS4099	UVADHARANEE B	B. Uvadhara	B. Uvadhara	B. Uvadhara	B. Uvadhara
104	20BCS4100	VAISHNAVI S	S. Vaishnavi	S. Vaishnavi	S. Vaishnavi	S. Vaishnavi
105	20BCS4101	VARSHA V	V. Varsha	V. Varsha	V. Varsha	V. Varsha
106	20BCS4102	VASANTH A	A. Vasanth	A. Vasanth	A. Vasanth	A. Vasanth
107	20BCS4103	VELMURUGAN K	K. Velmurugan	K. Velmurugan	K. Velmurugan	K. Velmurugan
108	20BCS4104	VIDHULAA AVS	A.V.S. Vidhula	A.V.S. Vidhula	A.V.S. Vidhula	A.V.S. Vidhula
109	20BCS4105	VIMALRAJ MN	M.N. Vimalraj	M.N. Vimalraj	M.N. Vimalraj	M.N. Vimalraj
110	20BCS4106	VISHWA GP	G.P. Vishwa	G.P. Vishwa	G.P. Vishwa	G.P. Vishwa
111	20BCS4107	YOGI N	N. Yogi	N. Yogi	N. Yogi	N. Yogi

Sl.No	Reg. No.	First Name	19.05.2022		20.05.2022	
			FN	AN	FN	AN
112	20BCS4304	JAYA PRIYA S	Jayapriya S	Jayapriya S	Jayapriya S	Jayapriya S
113	20BCS4306	RAGAVI M	M.P.A	M.P.A	M.P.A	M.P.A
114	20BCS4307	CHERALATHAN M	M. Cheralathan	M. Cheralathan	M. Cheralathan	M. Cheralathan

PARTICULARS	
STRENGTH	114
PRESENT	113
ABSENT	1

Vanni
21/5/22
COORDINATOR

S.T.G.
HOD - CSE

Dr. S.THILAGAMANI, M.E., Ph.d.,
Professor & Head
Computer Science & Engineering
M. Kumarasamy College Of Engineering
Karur - 639 113



M.KUMARASAMY
COLLEGE OF ENGINEERING

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Thalavapalayam, Karur – 639 113.



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
II YEAR/IV SEMESTER A SECTION(2020-2024 BATCH)
ONE CREDIT COURSE-18CSX007L MONGODB - CONSOLIDATED MARKS

S.No.	Register No. & Name	Assessment (30)	Presentation (50)	Vaiva Voce (20)	Total (100)
1.	20BCS4001-ABISHECK S	26	43	17	86 ✓
2.	20BCS4002-ABISHEK R	20	33	13	66 ✓
3.	20BCS4003-AJAY VISHWA R	17	28	11	56 ✓
4.	20BCS4004-ALEXANDER E	21	34	14	69 ✓
5.	20BCS4005-ARAVIND RAJ S	27	45	18	90 ✓
6.	20BCS4006-ARUNASS N V	22	36	14	72 ✓
7.	20BCS4007-ARUNKUMAR G	21	35	14	70 ✓
8.	20BCS4008-ARUNKUMAR K	21	35	14	70 ✓
9.	20BCS4009-ARUNKUMAR R	26	43	17	86 ✓
10.	20BCS4010-ASHOK KUMAR C	17	28	11	56 ✓
11.	20BCS4011-ASWIN KUMAR R	16	26	10	52 ✓
12.	20BCS4012-ASWIN S	25	42	17	84 ✓
13.	20BCS4013-BHARATHIDHASAN M	18	30	12	60 ✓
14.	20BCS4014-BHAVADHARANI M	22	37	15	74 ✓
15.	20BCS4015-CHANDRU E	22	36	14	72 ✓
16.	20BCS4016-DEVASENA T	18	29	12	59 ✓
17.	20BCS4017-DHANUSH J	18	29	12	59 ✓
18.	20BCS4018-DHANUSHPATHY K	29	48	19	96 ✓
19.	20BCS4019-DHARANI S	21	35	14	70 ✓
20.	20BCS4020-DHARSHINI R	17	28	11	56 ✓
21.	20BCS4021-DINESH P	16	26	10	52 ✓

S.No.	Register No. & Name	Assessment (30)	Presentation (50)	Vaiva Voce (20)	Total (100)
22.	20BCS4022-DINESHWARAN S	18	29	12	59 /
23.	20BCS4023-GOKULRAJ V	16	26	10	52 /
24.	20BCS4024-GOWTHAM DHARMA E	24	39	16	79 /
25.	20BCS4025-GOWTHAMAN N	15	25	10	50 /
26.	20BCS4026-HARANI S	18	29	12	59 /
27.	20BCS4027-HARIIVARTHINI R	23	38	15	76 /
28.	20BCS4028-HARISH S	20	33	13	66 /
29.	20BCS4029-HARISHMA R	23	38	15	76 /
30.	20BCS4030-HARITHA J	30	50	20	100 /
31.	20BCS4031-HEMA R	17	28	11	56 /
32.	20BCS4032-HEMANDH M S	27	44	18	89 /
33.	20BCS4033-JANANI M	25	42	17	84 /
34.	20BCS4034-JAYASHREE S	16	26	10	52 /
35.	20BCS4035-KARTHICK R	21	34	14	69 /
36.	20BCS4036-KARTHIKA R S	26	43	17	86 /
37.	20BCS4037-KARTHIKEYAN V V	23	38	15	76 /
38.	20BCS4038-KATHIRESH P	19	31	12	62 /
39.	20BCS4039-KAVINKUMAR V N	25	41	16	82 /
40.	20BCS4040-KAVITHRA T	23	38	15	76 /
41.	20BCS4041-KAVIYA M	26	43	17	86 /
42.	20BCS4042-KAYALVIZHI D	26	43	17	86 /
43.	20BCS4043-KEERTHANA K	26	43	17	86 /
44.	20BCS4044-KIRITHICK KANNAN S	25	41	16	82 /
45.	20BCS4045-KISHORE P	22	37	15	74 /
46.	20BCS4046-KUMARAN B	24	39	16	79 /
47.	20BCS4047-KUMARAVELAVAN J	28	46	18	92 /

S.No.	Register No. & Name	Assessment (30)	Presentation (50)	Vaiva Voce (20)	Total (100)
48.	20BCS4048-LAKSHEDHA P	22	36	14	72 /
49.	20BCS4049-LATHIKA R	22	36	14	72 /
50.	20BCS4050-LAVANYA R	25	41	16	82 /
51.	20BCS4051-LOGASAMRAJ S	22	37	15	74 /
52.	20BCS4052-LOGESHWARAN S T	23	38	15	76 /
53.	20BCS4053-LOGESWARI S	23	38	15	76 /
54.	20BCS4054-MADHAVAN V	28	46	18	92 /
55.	20BCS4301-AJITH A	24	40	16	80 /
56.	20BCS4302-ASHIKH BABU K	22	36	14	72 /
57.	20BCS4303-HARIHARAN G	21	34	14	69 /
58.	20BCS4305-MOHAMED NOWFAL S	17	28	11	56 /

V. S. S. S. S. S.
18/6/22
STAFF INCHARGE

J. S. S. S. S.
CLASS ADVISOR

S. P. S. S. S.
HOD - CSE



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
II YEAR/IV SEMESTER B SECTION(2020-2024 BATCH)
ONE CREDIT COURSE-18CSX007L MONGODB - CONSOLIDATED MARKS

S.No.	Register No. & Name	Assessment (30)	Presentation (50)	Vaiva Voce (20)	Total (100)
1.	20BCS4055-MADHUBALAN M	23	38	15	76 ✓
2.	20BCS4056-MADHUMITHA U	25	41	16	82 ✓
3.	20BCS4057-MANJU S	26	43	17	86 ✓
4.	20BCS4058-MANOJ B	24	40	16	80 ✓
5.	20BCS4059-MEYKEERTHI S	24	39	16	79 ✓
6.	20BCS4060-MIDHUNAA V S	17	28	11	56 ✓
7.	20BCS4061-MOHAN A	24	40	16	80 ✓
8.	20BCS4062-MOHAN KUMAR S	26	43	17	86 ✓
9.	20BCS4063-MOUNIKA V	25	41	16	82 ✓
10.	20BCS4064-MOUNISH KUMAR P	27	44	18	89 ✓
11.	20BCS4065-NAGUL J G	25	41	16	82 ✓
12.	20BCS4066-NANDHAKUMAR E	18	29	12	59 ✓
13.	20BCS4067-NAVEEN M	18	29	12	59 ✓
14.	20BCS4068-NAVEENA M	23	38	15	76 ✓
15.	20BCS4069-NITHISH KUMAR S	26	43	17	86 ✓
16.	20BCS4070-NITHYA N	21	34	14	69 ✓
17.	20BCS4071-PRADEEPKUMAR R	24	39	16	79 ✓
18.	20BCS4072-PRAVIN M	24	39	16	79 ✓
19.	20BCS4073-RAGUL RAM S G	19	31	12	62 ✓
20.	20BCS4074-RAJASHIVA A	24	39	16	79 ✓
21.	20BCS4075-RAMANIKANTH M	25	41	16	82 ✓

S.No.	Register No. & Name	Assessment (30)	Presentation (50)	Vaiva Voce (20)	Total (100)
22.	20BCS4076-RAMYA K	24	40	16	80 ✓
23.	20BCS4077-RHYTHUM KRISHNHA	25	41	16	82 ✓
24.	20BCS4078-RUBIKA V	18	30	12	60 ✓
25.	20BCS4079-SANJAY KUMAR S	24	40	16	80 ✓
26.	20BCS4080-SANJAY M	20	33	13	66 ✓
27.	20BCS4081-SANJAY P	24	39	16	79 ✓
28.	20BCS4082-SANTHOSH N	26	43	17	86 ✓
29.	20BCS4083-SANTHOSH P	26	43	17	86 ✓
30.	20BCS4084-SHARANRAJ K	24	40	16	80 ✓
31.	20BCS4085-SHARMI K	25	41	16	82 ✓
32.	20BCS4086-SHIVANI S	25	42	17	84 ✓
33.	20BCS4087-SHOFIYA A	18	29	12	59 ✓
34.	20BCS4088-SRINEETHI U K	AB	AB	AB	AB
35.	20BCS4089-SRINITHI B	26	43	17	86 ✓
36.	20BCS4090-SUDHARSAN K	26	43	17	86 ✓
37.	20BCS4091-SUDHARSHAN R	28	47	19	94 ✓
38.	20BCS4092-SUPREETHA B	24	39	16	79 ✓
39.	20BCS4093-SUTHARSAN V	25	41	16	82 ✓
40.	20BCS4094-SUWATHIKA K	17	28	11	56 ✓
41.	20BCS4095-SWETHA M	25	41	16	82 ✓
42.	20BCS4096-THIRUKUMARAN K	24	39	16	79 ✓
43.	20BCS4097-THRISHMA B A	24	39	16	79 ✓
44.	20BCS4098-THULASIMANI V V	26	43	17	86 ✓
45.	20BCS4099-UVADHARANEE B	25	42	17	84 ✓
46.	20BCS4100-VAISHNAVI S	25	41	16	82 ✓
47.	20BCS4101-VARSHA V	24	39	16	79 ✓
48.	20BCS4102-VASANTH A	24	39	16	79 ✓

S.No.	Register No. & Name	Assessment (30)	Presentation (50)	Vaiva Voce (20)	Total (100)
49.	20BCS4103-VELMURUGAN K	24	40	16	80/
50.	20BCS4104-VIDHULAA A V S	17	28	11	56/
51.	20BCS4105-VIMALRAJ M N	27	44	18	89/
52.	20BCS4106-VISHWA G P	26	43	17	86/
53.	20BCS4107-YOGI N	24	39	16	79/
54.	20BCS4304-JAYA PRIYA S	30	50	20	100/
55.	20BCS4306-RAGAVI M	27	45	18	90/
56.	20BCS4307-CHERALATHAN M	28	46	18	92/

V.rr
18/6/22
STAFF INCHARGE

S. Senthil
CLASS ADVISOR

S. T. R.
18/6/22
HOD - CSE



M.KUMARASAMY COLLEGE OF ENGINEERING, KARUR - 639 113

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COE

Course Consolidated Internal Marks

Department : B.E.(Computer Science and Engineering)

Semester : 4

Batch : 2020-2024

Section : A

Course Code & Name : 18CSX007L - MONGODB

S.No.	Reg. No.	Name	Internal Marks(Max. 100 Marks)	Internal Marks(In Words)
1	20BCS4001	ABISHECK S	86	EIGHT SIX
2	20BCS4002	ABISHEK R	66	SIX SIX
3	20BCS4003	AJAY VISHWA R	56	FIVE SIX
4	20BCS4004	ALEXANDER E	69	SIX NINE
5	20BCS4005	ARAVIND RAJ S	90	NINE ZERO
6	20BCS4006	ARUNASS N V	72	SEVEN TWO
7	20BCS4007	ARUNKUMAR G	70	SEVEN ZERO
8	20BCS4008	ARUNKUMAR K	70	SEVEN ZERO
9	20BCS4009	ARUNKUMAR R	86	EIGHT SIX
10	20BCS4010	ASHOK KUMAR C	56	FIVE SIX
11	20BCS4011	ASWIN KUMAR R	52	FIVE TWO
12	20BCS4012	ASWIN S	84	EIGHT FOUR
13	20BCS4013	BHARATHIDHASAN M	60	SIX ZERO
14	20BCS4014	BHAVADHARANI M	74	SEVEN FOUR
15	20BCS4015	CHANDRU E	72	SEVEN TWO
16	20BCS4016	DEVASENA T	59	FIVE NINE
17	20BCS4017	DHANUSH J	59	FIVE NINE
18	20BCS4018	DHANUSHPATHY K	96	NINE SIX
19	20BCS4019	DHARANI S	70	SEVEN ZERO
20	20BCS4020	DHARSHINI R	56	FIVE SIX
21	20BCS4021	DINESH P	52	FIVE TWO
22	20BCS4022	DINESHWARAN S	59	FIVE NINE
23	20BCS4023	GOKULRAJ V	52	FIVE TWO
24	20BCS4024	GOWTHAM DHARMA E	79	SEVEN NINE
25	20BCS4025	GOWTHAMAN N	50	FIVE ZERO
26	20BCS4026	HARANI S	59	FIVE NINE
27	20BCS4027	HARIIVARTHINI R	76	SEVEN SIX
28	20BCS4028	HARISH S	66	SIX SIX
29	20BCS4029	HARISHMA R	76	SEVEN SIX
30	20BCS4030	HARITHA J	100	ONE ZERO ZERO

Name	Mr. MANI V Assistant Professor B.E.(Computer Science and Engineering)	Dr. THILAGAMANI S HoD	
Signature with Date	 18/6/22		
	Teaching Faculty	Head of The Department	Principal



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COE

Course Consolidated Internal Marks

Department : B.E.(Computer Science and Engineering)

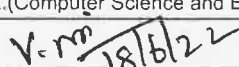
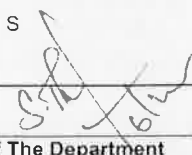
Semester : 4

Batch : 2020-2024

Section : A

Course Code & Name : 18CSX007L - MONGODB

S.No.	Reg. No.	Name	Internal Marks(Max. 100 Marks)	Internal Marks(In Words)
31	20BCS4031	HEMA R	56	FIVE SIX
32	20BCS4032	HEMANDH M S	89	EIGHT NINE
33	20BCS4033	JANANI M	84	EIGHT FOUR
34	20BCS4034	JAYASHREE S	52	FIVE TWO
35	20BCS4035	KARTHICK R	69	SIX NINE
36	20BCS4036	KARTHIKA R S	86	EIGHT SIX
37	20BCS4037	KARTHIKEYAN V V	76	SEVEN SIX
38	20BCS4038	KATHIRESH P	62	SIX TWO
39	20BCS4039	KAVINKUMAR V N	82	EIGHT TWO
40	20BCS4040	KAVITHRA T	76	SEVEN SIX
41	20BCS4041	KAVIYA M	86	EIGHT SIX
42	20BCS4042	KAYALVIZHI D	86	EIGHT SIX
43	20BCS4043	KEERTHANA K	86	EIGHT SIX
44	20BCS4044	KIRITHICK KANNAN S	82	EIGHT TWO
45	20BCS4045	KISHORE P	74	SEVEN FOUR
46	20BCS4046	KUMARAN B	79	SEVEN NINE
47	20BCS4047	KUMARAVELAVAN J	92	NINE TWO
48	20BCS4048	LAKSHEDHA P	72	SEVEN TWO
49	20BCS4049	LATHIKA R	72	SEVEN TWO
50	20BCS4050	LAVANYA R	82	EIGHT TWO
51	20BCS4051	LOGASAMRAJ S	74	SEVEN FOUR
52	20BCS4052	LOGESHWARAN S T	76	SEVEN SIX
53	20BCS4053	LOGESWARI S	76	SEVEN SIX
54	20BCS4054	MADHAVAN V	92	NINE TWO
55	20BCS4301	AJITH A	80	EIGHT ZERO
56	20BCS4302	ASHIKH BABU K	72	SEVEN TWO
57	20BCS4303	HARIHARAN G	69	SIX NINE
58	20BCS4305	MOHAMED NOWFAL S	56	FIVE SIX

Name	Mr. MANI V Assistant Professor B.E.(Computer Science and Engineering)	Dr. THILAGAMANI S HoD	
Signature with Date	 18/6/22	 18/6/22	
	Teaching Faculty	Head of The Department	Principal



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COE

Course Consolidated Internal Marks

Department : B.E.(Computer Science and Engineering)

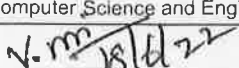
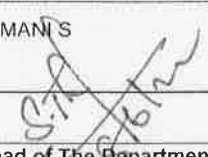
Semester : 4

Batch : 2020-2024

Section : B

Course Code & Name : 18CSX007L - MONGODB

S.No.	Reg. No.	Name	Internal Marks(Max. 100 Marks)	Internal Marks(In Words)
1	20BCS4055	MADHUBALAN M	76	SEVEN SIX
2	20BCS4056	MADHUMITHA U	82	EIGHT TWO
3	20BCS4057	MANJU S	86	EIGHT SIX
4	20BCS4058	MANOJ B	80	EIGHT ZERO
5	20BCS4059	MEYKEERTHI S	79	SEVEN NINE
6	20BCS4060	MIDHUNAA V S	56	FIVE SIX
7	20BCS4061	MOHAN A	80	EIGHT ZERO
8	20BCS4062	MOHAN KUMAR S	86	EIGHT SIX
9	20BCS4063	MOUNIKA V	82	EIGHT TWO
10	20BCS4064	MOUNISHI KUMAR P	89	EIGHT NINE
11	20BCS4065	NAGUL J G	82	EIGHT TWO
12	20BCS4066	NANDHAKUMAR E	59	FIVE NINE
13	20BCS4067	NAVEEN M	59	FIVE NINE
14	20BCS4068	NAVEENA M	76	SEVEN SIX
15	20BCS4069	NITHISH KUMAR S	86	EIGHT SIX
16	20BCS4070	NITHYA N	69	SIX NINE
17	20BCS4071	PRADEEPKUMAR R	79	SEVEN NINE
18	20BCS4072	PRAVIN M	79	SEVEN NINE
19	20BCS4073	RAGUL RAM S G	62	SIX TWO
20	20BCS4074	RAJASHIVA A	79	SEVEN NINE
21	20BCS4075	RAMANIKANTH M	82	EIGHT TWO
22	20BCS4076	RAMYA K	80	EIGHT ZERO
23	20BCS4077	RHYTHUM KRISHNHA S	82	EIGHT TWO
24	20BCS4078	RUBIKA V	60	SIX ZERO
25	20BCS4079	SANJAY KUMAR S	80	EIGHT ZERO
26	20BCS4080	SANJAY M	66	SIX SIX
27	20BCS4081	SANJAY P	79	SEVEN NINE
28	20BCS4082	SANTHOSH N	86	EIGHT SIX
29	20BCS4083	SANTHOSH P	86	EIGHT SIX
30	20BCS4084	SHARANRAJ K	80	EIGHT ZERO

Name	Mr. MANI V Assistant Professor B.E.(Computer Science and Engineering)	Dr. THILAGAMANI S HoD	
Signature with Date	 18/6/22	 18/6/22	
	Teaching Faculty	Head of The Department	Principal



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Course Consolidated Internal Marks

Department : B.E.(Computer Science and Engineering)

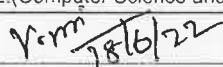
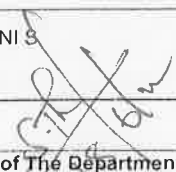
Semester : 4

Batch : 2020-2024

Section : B

Course Code & Name : 18CSX007L - MONGODB

S.No.	Reg. No.	Name	Internal Marks(Max. 100 Marks)	Internal Marks(In Words)
31	20BCS4085	SHARMI K	82	EIGHT TWO
32	20BCS4086	SHIVANI S	84	EIGHT FOUR
33	20BCS4087	SHOFIYA A	59	FIVE NINE
34	20BCS4088	SRINEETHI U K	0	ZERO
35	20BCS4089	SRINITHI B	86	EIGHT SIX
36	20BCS4090	SUDHARSAN K	86	EIGHT SIX
37	20BCS4091	SUDHARSHAN R	94	NINE FOUR
38	20BCS4092	SUPREETHA B	79	SEVEN NINE
39	20BCS4093	SUTHARSAN V	82	EIGHT TWO
40	20BCS4094	SUWATHIKA K	56	FIVE SIX
41	20BCS4095	SWETHA M	82	EIGHT TWO
42	20BCS4096	THIRUKUMARAN K	79	SEVEN NINE
43	20BCS4097	THRISHMA B A	79	SEVEN NINE
44	20BCS4098	THULASIMANI V V	86	EIGHT SIX
45	20BCS4099	UVADHARANEE B	84	EIGHT FOUR
46	20BCS4100	VAISHNAVI S	82	EIGHT TWO
47	20BCS4101	VARSHA V	79	SEVEN NINE
48	20BCS4102	VASANTH A	79	SEVEN NINE
49	20BCS4103	VELMURUGAN K	80	EIGHT ZERO
50	20BCS4104	VIDHULAA A V S	56	FIVE SIX
51	20BCS4105	VIMALRAJ M N	89	EIGHT NINE
52	20BCS4106	VISHWA G P	86	EIGHT SIX
53	20BCS4107	YOGI N	79	SEVEN NINE
54	20BCS4304	JAYA PRIYA S	100	ONE ZERO ZERO
55	20BCS4306	RAGAVI M	90	NINE ZERO
56	20BCS4307	CHERALATHAN M	92	NINE TWO

Name	Mr. MANI V Assistant Professor B.E.(Computer Science and Engineering)	Dr. THILAGAMANI S HoD	
Signature with Date	 18/6/22		
	Teaching Faculty	Head of The Department	Principal



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Cordially invites you for the
ONE CREDIT COURSE ON "PROBLEM SOLVING USING C++"
for second year students(Batch:2020-2024)

DATE:20.11.2021 & 22.11.2021

RESOURCE PERSONS

Mr.V.Mani
Assistant Professor
Department of Computer Science and
Engineering
M.Kumarasamy College of Engineering

Mr.R.Vikram
Assistant Professor
Department of Computer Science and
Engineering
M.Kumarasamy College of Engineering

Dr. K.RAMAKRISHNAN
SECRETARY

Dr.S.KUPPUSAMY
EXECUTIVE DIRECTOR

Dr.N.RAMESH BABU
PRINCIPAL

Dr. S.THILAGAMANI
HOD-CSE

Mr V. MANI
COORDINATOR


Dr. S.THILAGAMANI, M.E.,Ph.d.,
Professor & Head
Computer Science & Engineering
M. Kumarasamy College Of Engineering
Karur - 639 113



Mani V <maniv.cse@mkce.ac.in>

One Credit Course - Problem Solving using C++(Batch:2020-2024) - Date Change - Reg

1 message

Mani V <maniv.cse@mkce.ac.in>

Sun, Nov 21, 2021 at 7:35 AM

To: faculty@mkce.ac.in, Principal MKCE <principal@mkce.ac.in>, hod@mkce.ac.in, MKCE TV <mkcetelevision@gmail.com>, Principal Pa <patoprincipal@mkce.ac.in>

Respected Sir/Madam,

As per the earlier mail communication, We have planned to conduct one credit course on Problem Solving using C++ for the II Year / III Semester students(Batch:2020-2024) from 20.11.2021 to 21.11.2021. We have changed the date for one credit course (20.11.2021 & 22.11.2021 instead of 20.11.2021 - 21.11.2021). Kindly find the attachment

Regards,

V.MANI M.E.,(Ph.D)

Assistant Professor/CSE,

M.Kumarasamy College of Engineering(Autonomous),

Karur-639 113.

Ph.No. 9677862406

Whatsapp :9677862406



PROBLEM SOLVING USING C++.jpg
159K

S.T.H.

Dr. S.THILAGAMANI, M.E.,Ph.d.,
Professor & Head
Computer Science & Engineering
M. Kumarasamy College Of Engineering
Karur - 639 113



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Thalavapalayam, Karur – 639 113.



17.11.2021

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ONE CREDIT COURSE – II YEAR / III SEM (2020-2024 BATCH)
18CSX002L PROBLEM SOLVING USING C++

DELIVERY THROUGH INTERNAL FACULTY MEMBERS

STRENGTH	: 114 Students
RESOURCE PERSONS	: Mr.V.MANI, Assistant Professor, Department of Computer Science and Engineering, M.Kumarasamy College of Engineering, Karur. Mr.R.VIKRAM, Assistant Professor, Department of Computer Science and Engineering, M.Kumarasamy College of Engineering, Karur.
COURSE DATES	: 20.11.2021 & 22.11.2021
TOTAL DURATION	: 2 Days
TOTAL HOURS	: 16 Hours
COURSE AMOUNT	: Rs.50/- (Per Student)
TOTAL AMOUNT	: Rs.5700 /-

HOD-CSE
Dr.S.Thilagamani

Dr. S.THILAGAMANI, M.E., Ph.d.,
Professor & Head
Computer Science & Engineering
M. Kumarasamy College Of Engineering
Karur - 639 113



Regulation 2018		Course Name	Total Hours			C
Category	Course Code		Hours / Week			
			L	T	P	
X	18CSX002L	PROBLEM SOLVING USING C++	0	0	2	1

Prerequisite Course (s)

PROGRAM FOR PROBLEM SOLVING

Course Objective (s):

The purpose of learning this course is to:

- 1 Identify and practice the object-oriented programming concepts and techniques
- 2 Practice the use of C++ classes and class libraries, modify existing C++ classes, develop C++ classes for simple applications.

Course Outcome (s) (COs):

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

- CO1 Understand the difference between object oriented programming and procedural oriented language and control structures in C++.
- CO2 Explain the concept of C++ features such as Function Overloading, Friend Function, Inline Function, Inheritance, Constructors etc.

CO-PO Mapping

COs	POs												PSOs	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	-	-	-	-	-	2	2	-	-	3	2
CO2	3	3	2	-	-	-	-	-	2	2	-	-	3	2
CO (Avg)	3	3	2.5	-	-	-	-	-	2	2	-	-	3	2

1: Slight (Low)

2: Moderate (Medium)

3: Substantial (High)

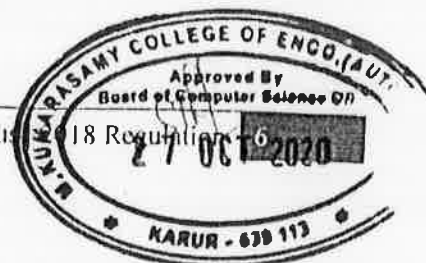
TOPICS

Procedural Vs. Object-Oriented Programming -Basic Concepts and Principles of OOP - Applications of OOP, Overview of C++ - Program Structure - Preprocessor Directives - Operators in C++- Control Structures.Functions – Function Overloading - Inline Functions - String Library Functions - Friend Functions . Basics of Object and Class in C++- Private and Public Members- Constructors - Types – Destructors. Inheritance - Protected Members - Types of Inheritance.

Reference (s)

1. E.Balagurusamy, Object Oriented Programming with C++, TATA Mc GRAW HILL EDITION, Third Edition.
2. Ira Pohl, Object-Oriented Programming using C++, 2nd ed., Pearson Education, 1997.

Curriculum and Syllabus





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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
II YEAR / III SEMESTER[BATCH : 2020-2024]
ONE CREDIT COURSE - 18CSX002L PROBLEM SOLVING USING C++

S.no	Date	Time	Topics to be Covered
1	20.11.2021	09.00 am - 10.00 am	Procedural Vs. Object-Oriented Programming
2		10.00 am - 11.00 am	Basic Concepts and Principles of OOP
3		11.00 am - 12.00 pm	Applications of OOP. Overview of C++
4		12.00 pm - 01.00 pm	Program Structure
5		02.00 pm - 03.00 pm	Preprocessor Directives
6		03.00 pm - 04.00 pm	Operators in C++
7		04.00 pm - 05.00 pm	Control Structures.Functions
8		05.00 pm - 06.00 pm	Control Structures.Functions
9	22.11.2021	09.00 am - 10.00 am	Function Overloading
10		10.00 am - 11.00 am	Inline Functions
11		11.00 am - 12.00 pm	String Library Functions
12		12.00 pm - 01.00 pm	Friend Functions
13		02.00 pm - 03.00 pm	Basics of Object and Class in C++ - Private and Public Members
14		03.00 pm - 04.00 pm	Constructors - Types – Destructors
15		04.00 pm - 05.00 pm	Inheritance - Protected Members
16		05.00 pm - 06.00 pm	Types of Inheritance

V. Mani
19/11/21
COORDINATOR

S. Thilagamani
HOD - CSE

Dr. S.THILAGAMANI, M.E.,Ph.d.,
Professor & Head
Computer Science & Engineering
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Karur - 639 113



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
II YEAR/III SEMESTER(2020-2024 BATCH)
ONE CREDIT COURSE-18CSX002L PROBLEM SOLVING USING C++
ATTENDANCE DETAILS

S NO	REG NO	NAME	20.11.2021		22.11.2021	
			FN	AN	FN	AN
1	20BCS4001	ABISHECK S	S. Abishek	S. Abishek	S. Abishek	S. Abishek
2	20BCS4002	ABISHEK R	R. Abishek	R. Abishek	R. Abishek	R. Abishek
3	20BCS4003	AJAYVISHWA R	R. Ajisha	R. Ajisha	R. Ajisha	R. Ajisha
4	20BCS4004	ALEXANDER E	Alexander	Alexander	Alexander	Alexander
5	20BCS4005	ARAVIND RAJ S	S. Aravind	S. Aravind	S. Aravind	S. Aravind
6	20BCS4006	ARUNASS N V	Arun	Arun	Arun	Arun
7	20BCS4007	ARUNKUMAR G	G. Arun	G. Arun	G. Arun	G. Arun
8	20BCS4008	ARUNKUMAR K	K. Arun	K. Arun	K. Arun	K. Arun
9	20BCS4009	ARUNKUMAR R	R. Arun	R. Arun	R. Arun	R. Arun
10	20BCS4010	ASHOK KUMAR C	C. Arun	C. Arun	C. Arun	C. Arun
11	20BCS4011	ASWIN KUMAR R	R. Arun	R. Arun	R. Arun	R. Arun
12	20BCS4012	ASWIN S	S. Arun	S. Arun	S. Arun	S. Arun
13	20BCS4013	BHARATHIDHASAN M	M. Arun	M. Arun	M. Arun	M. Arun

S NO	REG NO	NAME	20.11.2021		22.11.2021	
			FN	AN	FN	AN
14	20BCS4014	BHAVADHARANI M	M. Bhahani	M. Bhahani	M. Bhahani	M. Bhahani
15	20BCS4015	CHANDRU E	E. Chtr.	E. Chtr.	E. Chtr.	E. Chtr.
16	20BCS4016	DEVASENA T	Dev	Dev	Dev	Dev
17	20BCS4017	DHANUSH J	J. Dhan	J. Dhan	J. Dhan	J. Dhan
18	20BCS4018	DHANUSHPATHY K	K. Dhan	K. Dhan	K. Dhan	K. Dhan
19	20BCS4019	DHARANI S	S. Dhari	S. Dhari	S. Dhari	S. Dhari
20	20BCS4020	DHARSHINI R	R. Dhari	R. Dhari	R. Dhari	R. Dhari
21	20BCS4021	DINESH P	P. Dinesh	P. Dinesh	P. Dinesh	P. Dinesh
22	20BCS4022	DINESHWARAN S	S. Dineshwaran	S. Dineshwaran	S. Dineshwaran	S. Dineshwaran
23	20BCS4023	GOKULRAJ V	V. Gokulraj	V. Gokulraj	V. Gokulraj	V. Gokulraj
24	20BCS4024	GOWTHAM DHARMA E	E. Dharmagowtham	E. Dharmagowtham	E. Dharmagowtham	E. Dharmagowtham
25	20BCS4025	GOWTHAMAN N	N. Dharmaganan	N. Dharmaganan	N. Dharmaganan	N. Dharmaganan
26	20BCS4026	HARANI S	S. Hari	S. Hari	S. Hari	S. Hari
27	20BCS4027	HARIIVARTHINI R	R. Hariivarthini	R. Hariivarthini	R. Hariivarthini	R. Hariivarthini
28	20BCS4028	HARISH S	S. Harish	S. Harish	S. Harish	S. Harish
29	20BCS4029	HARISHMA R	R. Harishma	R. Harishma	R. Harishma	R. Harishma

S NO	REG NO	NAME	20.11.2021		22.11.2021	
			FN	AN	FN	AN
30	20BCS4030	HARITHA J	J. Haritha	J. Haritha	J. Haritha	J. Haritha
31	20BCS4031	HEMA R	R. Hema	R. Hema	R. Hema	R. Hema
32	20BCS4032	HENANDH M S	Ms. Henandh	Ms. Henandh	Ms. Henandh	Ms. Henandh
33	20BCS4033	JANANI M	M. Janani	M. Janani	M. Janani	M. Janani
34	20BCS4034	JAYASHREE S	S. Jayashree	S. Jayashree	S. Jayashree	S. Jayashree
35	20BCS4035	KARTHICK R	R. Karthick	R. Karthick	R. Karthick	R. Karthick
36	20BCS4036	KARTHIKA R S	R.S. Karthika	R.S. Karthika	R.S. Karthika	R.S. Karthika
37	20BCS4037	KARTHIKEYAN V V	V.V. Karthikeyan	V.V. Karthikeyan	V.V. Karthikeyan	V.V. Karthikeyan
38	20BCS4038	KATHIRESH P	P. Kathiresh	P. Kathiresh	P. Kathiresh	P. Kathiresh
39	20BCS4039	KAVINKUMAR V N	V.N. Kavinkumar	V.N. Kavinkumar	V.N. Kavinkumar	V.N. Kavinkumar
40	20BCS4040	KAVITHRA T	T. Kavithra	T. Kavithra	T. Kavithra	T. Kavithra
41	20BCS4041	KAVIYA M	M. Kaviya	M. Kaviya	M. Kaviya	M. Kaviya
42	20BCS4042	KAYALVIZHI D	D. Kayalvizhi	D. Kayalvizhi	D. Kayalvizhi	D. Kayalvizhi
43	20BCS4043	KEERTHANA K	K. Keerthana	K. Keerthana	K. Keerthana	K. Keerthana
44	20BCS4044	KIRITHICK KANNAN S	S. Kirithick	S. Kirithick	S. Kirithick	S. Kirithick
45	20BCS4045	KISHORE P	P. Kishore	P. Kishore	P. Kishore	P. Kishore
46	20BCS4046	KUMARAN B	B. Kumaran	B. Kumaran	B. Kumaran	B. Kumaran
47	20BCS4047	KUMARAVELAVAN J	J. Kumaravelavan	J. Kumaravelavan	J. Kumaravelavan	J. Kumaravelavan

S NO	REG NO	NAME	20.11.2021		22.11.2021	
			FN	AN	FN	AN
			48	20BCS4048	LAKSHEDHA P	P. Laksheda
49	20BCS4049	LATHIKA R	P. Lathika	P. Lathika	P. Lathika	P. Lathika
50	20BCS4050	LAVANYA R	P. Lavanya	P. Lavanya	P. Lavanya	P. Lavanya
51	20BCS4051	LOGASAMRAJ S	S. R. J. S	S. R. J. S	S. R. J. S	S. R. J. S
52	20BCS4052	LOGESHWARAN S T	S. T. Logan	S. T. Logan	S. T. Logan	S. T. Logan
53	20BCS4053	LOGESWARI S	S. Logan	S. Logan	S. Logan	S. Logan
54	20BCS4054	MADHAVAN V	S. Logeswari	S. Logeswari	S. Logeswari	S. Logeswari
55	20BCS4301	AJITH A	V. Madhavan	V. Madhavan	V. Madhavan	V. Madhavan
56	20BCS4302	ASHIKH BABU K	A. Jith	A. Jith	A. Jith	A. Jith
57	20BCS4303	HARIHARAN G	K. Ashik	K. Ashik	K. Ashik	K. Ashik
58	20BCS4305	MOHAMED NOWFAL S	G. Hariharan	G. Hariharan	G. Hariharan	G. Hariharan
59	20BCS4055	MADHUBALAN M	S. Nowfal	S. Nowfal	S. Nowfal	S. Nowfal
60	20BCS4056	MADHUMITHA U	M. Madhubalan	M. Madhubalan	M. Madhubalan	M. Madhubalan
61	20BCS4057	MANJU S	Madhu	Madhu	Madhu	Madhu
62	20BCS4058	MANOJ B	Man	Man	Man	Man
63	20BCS4059	MEYKEERTHI S	B. Manoj	B. Manoj	B. Manoj	B. Manoj
64	20BCS4060	MIDHUNAA V S	S. Meykeerthi	S. Meykeerthi	S. Meykeerthi	S. Meykeerthi
65	20BCS4061	MOHAN A	M. Midhunaa	M. Midhunaa	M. Midhunaa	M. Midhunaa
			A. Mohan	A. Mohan	A. Mohan	A. Mohan

S NO	REG NO	NAME	20.11.2021		22.11.2021	
			FN	AN	FN	AN
66	20BCS4062	MOHAN KUMAR S	S. Mohan	S. Mohan	S. Mohan	S. Mohan
67	20BCS4063	MOUNIKA V	M. Mohan	M. Mohan	M. Mohan	M. Mohan
68	20BCS4064	MOUNISH KUMAR P	P. Mohan	P. Mohan	P. Mohan	P. Mohan
69	20BCS4065	NAGUL J G	J. G. Nagul	J. G. Nagul	J. G. Nagul	J. G. Nagul
70	20BCS4066	NANDHAKUMAR E	N. Nagul	N. Nagul	N. Nagul	N. Nagul
71	20BCS4067	NAVEEN M	M. Naveen	M. Naveen	M. Naveen	M. Naveen
72	20BCS4068	NAVEENA M	m. Naveen	m. Naveen	m. Naveen	m. Naveen
73	20BCS4069	NITHISH KUMAR S	S. Nithish Kumar	S. Nithish Kumar	S. Nithish Kumar	S. Nithish Kumar
74	20BCS4070	NITHYA N	Nithya	Nithya	Nithya	Nithya
75	20BCS4071	PRADEEPKUMAR R	R. Pradeep Kumar	R. Pradeep Kumar	R. Pradeep Kumar	R. Pradeep Kumar
76	20BCS4072	PRAVIN M	M. Pravin	M. Pravin	M. Pravin	M. Pravin
77	20BCS4073	RAGUL RAM S.G	S. G. Ragul Ram	S. G. Ragul Ram	S. G. Ragul Ram	S. G. Ragul Ram
78	20BCS4074	RAJASHIVA A	A. Rajash	A. Rajash	A. Rajash	A. Rajash
79	20BCS4075	RAMANIKANTH M	M. Ramani	M. Ramani	M. Ramani	M. Ramani
80	20BCS4076	RAMYA K	K. Ramya	K. Ramya	K. Ramya	K. Ramya
81	20BCS4077	RHYTHUM KRISHNHA S	S. Rhythum Krishna	S. Rhythum Krishna	S. Rhythum Krishna	S. Rhythum Krishna
82	20BCS4078	RUBIKA V	V. Rubika	V. Rubika	V. Rubika	V. Rubika
83	20BCS4079	SANJAY KUMAR S	S. Sanjay Kumar	S. Sanjay Kumar	S. Sanjay Kumar	S. Sanjay Kumar

S NO	REG NO	NAME	20.11.2021		22.11.2021	
			FN	AN	FN	AN
			84	20BCS4080	SANJAY M	H. Lef
85	20BCS4081	SANJAY P	Sanjay P	Sanjay P	Sanjay P	Sanjay P
86	20BCS4082	SANTHOSH N	Santh	Santh	Santh	Santh
87	20BCS4083	SANTHOSH P	P. Btlb	P. Btlb	P. Btlb	P. Btlb
88	20BCS4084	SHARANRAJ K	Shu Raj	Shu Raj	Shu Raj	Shu Raj
89	20BCS4085	SHARMI K	Kshami	Kshami	Kshami	Kshami
90	20BCS4086	SHIVANI S	Shivani	Shivani	Shivani	Shivani
91	20BCS4087	SHOFIYA A	Shof	Shof	Shof	Shof
92	20BCS4088	SRINEETHI U K	Srin	Srin	Srin	Srin
93	20BCS4089	SRINITHI B	Srinithi B	Srinithi B	Srinithi B	Srinithi B
94	20bcs4090	SUDHARSAN K	Sudharshan	Sudharshan	Sudharshan	Sudharshan
95	20BCS4091	SUDHARSHAN R	R. Sudharshan	R. Sudharshan	R. Sudharshan	R. Sudharshan
96	20BCS4092	SUPREETHA B	Supreetha B	Supreetha B	Supreetha B	Supreetha B
97	20BCS4093	SUTHARSAN V	V. Sutharshan	V. Sutharshan	V. Sutharshan	V. Sutharshan
98	20BCS4094	SUWATHIKA K	Suwathika K	Suwathika K	Suwathika K	Suwathika K
99	20BCS4095	SWETHA M	Swetha M	Swetha M	Swetha M	Swetha M
100	20BCS4096	THIRUKUMARAN K	Thirukumaran K	Thirukumaran K	Thirukumaran K	Thirukumaran K
101	20BCS4097	THRISHMA B A	B.A. Thif	B.A. Thif	B.A. Thif	B.A. Thif

S NO	REG NO	NAME	20.11.2021		22.11.2021	
			FN	AN	FN	AN
102	20BCS4098	THULASIMANI V V	v.v. Thulasmani	v.v. Thulasmani	v.v. Thulasmani	v.v. Thulasmani
103	20BCS4099	UVADHARANEE B	B. Ueello	B. Ueello	B. Ueello	B. Ueello
104	20BCS4100	VAISHNAVI S	S. Vaishnavi	S. Vaishnavi	S. Vaishnavi	S. Vaishnavi
105	20BCS4101	VARSHA V	VARSHA V	VARSHA V	VARSHA V	VARSHA V
106	20BCS4102	VASANTH A	A. Vasanth	A. Vasanth	A. Vasanth	A. Vasanth
107	20BCS4103	VELMURUGAN K	Velgank	Velgank	Velgank	Velgank
108	20BCS4104	VIDHULAA A V S	Vidhul	Vidhul	Vidhul	Vidhul
109	20BCS4105	VIMALRAJ M N	M.N. Vimalraj	M.N. Vimalraj	M.N. Vimalraj	M.N. Vimalraj
110	20BCS4106	VISHWA G P	Vishwa	Vishwa	Vishwa	Vishwa
111	20BCS4107	YOGI N	Yogi	Yogi	Yogi	Yogi
112	20BCS4304	JAYA PRIYA S	S. Jayapriya	S. Jayapriya	S. Jayapriya	S. Jayapriya
113	20BCS4306	RAGAVI M	RAGAVI M	RAGAVI M	RAGAVI M	RAGAVI M
114	20BCS4307	CHERALATHAN M	M. Cheralathan	M. Cheralathan	M. Cheralathan	M. Cheralathan

Vommi
23/11/2021

COORDINATOR

S.P.

HOD - CSE

Dr. S. THILAGAMANI, M.E., Ph.d.,
Professor & Head
Computer Science & Engineering
M. Kumarasamy College Of Engineering
Karur - 639 113



M.KUMARASAMY COLLEGE OF ENGINEERING, KARUR - 639 113

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COE

Course Consolidated Internal Marks

Department : B.E.(Computer Science and Engineering)

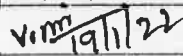
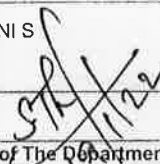
Semester : 3

Batch : 2020-2024

Section : A

Course Code & Name : 18CSX002L - PROBLEM SOLVING USING C++

S.No.	Reg. No.	Name	Internal Marks(Max. 100 Marks)	Internal Marks(In Words)
1	20BCS4001	ABISHECK S	86	EIGHT SIX
2	20BCS4002	ABISHEK R	80	EIGHT ZERO
3	20BCS4003	AJAY VISHWA R	64	SIX FOUR
4	20BCS4004	ALEXANDER E	80	EIGHT ZERO
5	20BCS4005	ARAVIND RAJ S	94	NINE FOUR
6	20BCS4006	ARUNASS N V	96	NINE SIX
7	20BCS4007	ARUNKUMAR G	90	NINE ZERO
8	20BCS4008	ARUNKUMAR K	94	NINE FOUR
9	20BCS4009	ARUNKUMAR R	94	NINE FOUR
10	20BCS4010	ASHOK KUMAR C	87	EIGHT SEVEN
11	20BCS4011	ASWIN KUMAR R	80	EIGHT ZERO
12	20BCS4012	ASWIN S	91	NINE ONE
13	20BCS4013	BIJARATHI HIRIYASAN M	88	EIGHT EIGHT
14	20BCS4014	BHAVADHARANI M	84	EIGHT FOUR
15	20BCS4015	CHANDRU E	86	EIGHT SIX
16	20BCS4016	DEVASENA T	84	EIGHT FOUR
17	20BCS4017	DHANUSH J	82	EIGHT TWO
18	20BCS4018	DHANUSHPATHY K	81	EIGHT ONE
19	20BCS4019	DHARANI S	78	SEVEN EIGHT
20	20BCS4020	DHARSHINI R	74	SEVEN FOUR
21	20BCS4021	DINESH P	84	EIGHT FOUR
22	20BCS4022	DINESHWARAN S	74	SEVEN FOUR
23	20BCS4023	GOKULRAJ V	76	SEVEN SIX
24	20BCS4024	GOWTHAM DHARMA E	82	EIGHT TWO
25	20BCS4025	GOWTHAMAN N	66	SIX SIX
26	20BCS4026	HARANI S	90	NINE ZERO
27	20BCS4027	HARIIVARTHINI R	94	NINE FOUR
28	20BCS4028	HARISH S	86	EIGHT SIX
29	20BCS4029	HARISHMA R	82	EIGHT TWO
30	20BCS4030	HARITHA J	60	SIX ZERO

Name	Mr. MANI V Assistant Professor B.E.(Computer Science and Engineering)	Dr. THILAGAMANI S HoD	
Signature with Date	 19/11/22	 19/11/22	
	Teaching Faculty	Head of The Department	Principal



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COE

Course Consolidated Internal Marks

Department : B.E.(Computer Science and Engineering)

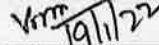
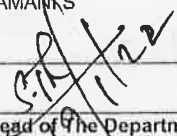
Semester : 3

Batch : 2020-2024

Section : A

Course Code & Name : 18CSX002L - PROBLEM SOLVING USING C++

S.No.	Reg. No.	Name	Internal Marks(Max. 100 Marks)	Internal Marks(In Words)
31	20BCS4031	HEMA R	70	SEVEN ZERO
32	20BCS4032	HEMANDH M S	56	FIVE SIX
33	20BCS4033	JANANI M	60	SIX ZERO
34	20BCS4034	JAYASHREE S	92	NINE TWO
35	20BCS4035	KARTHICK R	86	EIGHT SIX
36	20BCS4036	KARTHIKA R S	84	EIGHT FOUR
37	20BCS4037	KARTHIKEYAN V V	84	EIGHT FOUR
38	20BCS4038	KATHIRESH P	94	NINE FOUR
39	20BCS4039	KAVINKUMAR V N	70	SEVEN ZERO
40	20BCS4040	KAVITHRA T	76	SEVEN SIX
41	20BCS4041	KAVIYA M	88	EIGHT SIX
42	20BCS4042	KAYALVIZHI D	88	EIGHT EIGHT
43	20BCS4043	KEERTHANA K	92	NINE TWO
44	20BCS4044	KIRITHICK KANNAN S	64	SIX FOUR
45	20BCS4045	KISHORE P	86	EIGHT SIX
46	20BCS4046	KUMARAN B	76	SEVEN SIX
47	20BCS4047	KUMARAVELAVAN J	68	SIX EIGHT
48	20BCS4048	LAKSHEDHA P	84	EIGHT FOUR
49	20BCS4049	LATHIKA R	72	SEVEN TWO
50	20BCS4050	LAVANYA R	77	SEVEN SEVEN
51	20BCS4051	LOGASAMRAJ S	77	SEVEN SEVEN
52	20BCS4052	LOGESHWARAN S T	66	SIX SIX
53	20BCS4053	LOGESWARI S	84	EIGHT FOUR
54	20BCS4054	MADHAVAN V	91	NINE ONE
55	20BCS4301	AJITH A	66	SIX SIX
56	20BCS4302	ASHIKH BABU K	70	SEVEN ZERO
57	20BCS4303	HARIHARAN G	52	FIVE TWO
58	20BCS4305	MOHAMED NOWFAL S	51	FIVE ONE

Name	Mr. MANI V Assistant Professor B.E.(Computer Science and Engineering)	Dr. THILAGAMANN S HoD	
Signature with Date	 19/11/22	 19/11/22	
	Teaching Faculty	Head of The Department	Principal



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COE

Course Consolidated Internal Marks

Department : B.E.(Computer Science and Engineering)

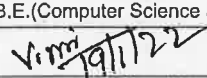
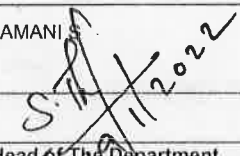
Semester : 3

Batch : 2020-2024

Section : B

Course Code & Name : 18CSX002L - PROBLEM SOLVING USING C++

S.No.	Reg. No.	Name	Internal Marks(Max. 100 Marks)	Internal Marks(In Words)
1	20BCS4055	MADHUBALAN M	97	NINE SEVEN
2	20BCS4056	MADHUMITHA U	96	NINE SIX
3	20BCS4057	MANJU S	92	NINE TWO
4	20BCS4058	MANOJ B	82	EIGHT TWO
5	20BCS4059	MEYKEERTHI S	82	EIGHT TWO
6	20BCS4060	MIDHUNAA V S	81	EIGHT ONE
7	20BCS4061	MOHAN A	87	EIGHT SEVEN
8	20BCS4062	MOHAN KUMAR S	98	NINE EIGHT
9	20BCS4063	MOUNIKA V	86	EIGHT SIX
10	20BCS4064	MOUNISH KUMAR P	84	EIGHT FOUR
11	20BCS4065	NAGUL J G	81	EIGHT ONE
12	20BCS4066	NANDHAKUMAR E	96	NINE SIX
13	20BCS4067	NAVEEN M	80	EIGHT ZERO
14	20BCS4068	NAVEENA M	80	EIGHT ZERO
15	20BCS4069	NITHISH KUMAR S	90	NINE ZERO
16	20BCS4070	NITHYA N	96	NINE SIX
17	20BCS4071	PRADEEPAKUMAR R	90	NINE ZERO
18	20BCS4072	PRAVIN M	76	SEVEN SIX
19	20BCS4073	RAGUL RAM S G	77	SEVEN SEVEN
20	20BCS4074	RAJASHIVA A	87	EIGHT SEVEN
21	20BCS4075	RAMANIKANTH M	80	EIGHT ZERO
22	20BCS4076	RAMYA K	78	SEVEN EIGHT
23	20BCS4077	RHYTHUM KRISHNHA S	96	NINE SIX
24	20BCS4078	RUBIKA V	70	SEVEN ZERO
25	20BCS4079	SANJAY KUMAR S	86	EIGHT SIX
26	20BCS4080	SANJAY M	84	EIGHT FOUR
27	20BCS4081	SANJAY P	64	SIX FOUR
28	20BCS4082	SANTHOSH N	76	SEVEN SIX
29	20BCS4083	SANTHOSH P	90	NINE ZERO
30	20BCS4084	SHARANRAJ K	84	EIGHT FOUR

Name	Mrs. SANTHIYA S Assistant Professor B.E.(Computer Science and Engineering)	Dr. THILAGAMANI HoD	
Signature with Date	 19/11/22	 19/11/2022	
	Teaching Faculty	Head of The Department	Principal



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COE

Course Consolidated Internal Marks

Department : B.E.(Computer Science and Engineering)


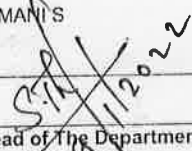
Semester : 3

Batch : 2020-2024

Section : B

Course Code & Name : 18CSX002L - PROBLEM SOLVING USING C++

S.No.	Reg. No.	Name	Internal Marks(Max. 100 Marks)	Internal Marks(In Words)
31	20BCS4085	SHARMI K	86	EIGHT SIX
32	20BCS4086	SHIVANI S	81	EIGHT ONE
33	20BCS4087	SHOFIYA A	76	SEVEN SIX
34	20BCS4088	SRINEETHI U K	72	SEVEN TWO
35	20BCS4089	SRINITHI B	74	SEVEN FOUR
36	20BCS4090	SUDHARSAN K	98	NINE EIGHT
37	20BCS4091	SUDHARSHAN R	91	NINE ONE
38	20BCS4092	SUPREETHA B	87	EIGHT SEVEN
39	20BCS4093	SUTHARSAN V	92	NINE TWO
40	20BCS4094	SUWATHIKA K	80	EIGHT ZERO
41	20BCS4095	SWETHA M	91	NINE ONE
42	20BCS4096	THIRUKUMARAN K	52	FIVE TWO
43	20BCS4097	THRISHMA B A	68	SIX EIGHT
44	20BCS4098	THULASIMANI V V	94	NINE FOUR
45	20BCS4099	UVADHARANEE B	90	NINE ZERO
46	20BCS4100	VAISHNAVI S	90	NINE ZERO
47	20BCS4101	VARSHA V	66	SIX SIX
48	20BCS4102	VASANTH A	81	EIGHT ONE
49	20BCS4103	VELMURUGAN K	67	SIX SEVEN
50	20BCS4104	VIDHULAA A V S	56	FIVE SIX
51	20BCS4105	VIMALRAJ M N	72	SEVEN TWO
52	20BCS4106	VISI IWA G P	90	NINE ZERO
53	20BCS4107	YOGI N	77	SEVEN SEVEN
54	20BCS4304	JAYA PRIYA S	54	FIVE FOUR
55	20BCS4306	RAGAVI M	56	FIVE SIX
56	20BCS4307	CHERALATHAN M	72	SEVEN TWO

Name	Mrs. SANTHIYA S Assistant Professor B.E.(Computer Science and Engineering)	Dr. THILAGAMANI S HoD	
Signature with Date	 19/11/22	 19/11/2022	
	Teaching Faculty	Head of The Department	Principal



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ISO 9001:2015 & ISO 14001:2015 Certified Institution
Thalavapalayam, Karur - 639 113.



Department of Electrical and Electronics Engineering

One Credit Course

18EEX003J- PLC and its Applications

YEAR / SEM	III YEAR/ V SEM
BATCH	2020-2024
FACULTY TRAINER	Mr.V.Prabhakaran
FACULTY INCHARGE	Mr.N.Selvam
COURSE DURATION	TWO DAYS (24-11-22 & 25-11-22)
NUMBER OF STUDENTS ATTENDED THE COURSE	65

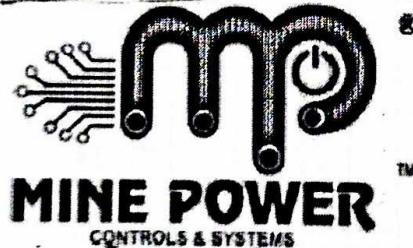
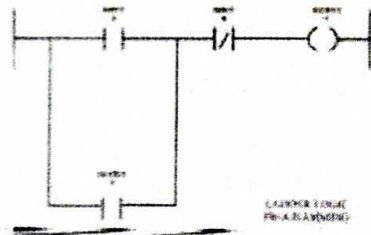


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COLLEGE OF ENGINEERING
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Approved by AICTE & Affiliated to Anna University
ISO 9001:2015 & ISO 14001:2015 Certified Institution
Thalavapalayam, Karur - 639 113.



Department of EEE

Heartly welcomes you
One Credit Course on PLC & Its Applications
III - YEAR, B - SECTION



Resource Person

Mr. V. Prabhakaran

Director - Technical

Mine Power Control & Systems,
Coimbatore

Date : 24.11.2022 & 25.11.2022

Timing : 8.45 am to 4.40 pm

Venue : APJ Block - EEE Lab.-I

Dr.K.Ramakrishnan
Secretary

Dr.S.Kuppusamy
Executive Director

Dr.N.Ramesh Babu
Principal

Dr.C.Kumar
HoD/EEE

Mr.N.Selvam
One Credit in-charge



Regulation 2018		One Credit course	Total Hours	15		
Category	Course Code	Course Name	Hours / Week		C	
			L	T		P
O	18EEX003J	PLC AND ITS APPLICATIONS	1	0	2	1

Prerequisite Course (s)

Digital Electronics, Solid State Drives

Course Objective (s): The purpose of learning this course is to:

- 1 Acquire a programming skill in PLC
- 2 Build a skill to work with PLC hardware interface

Course Outcome (s) (COs): At the end of this course, learners will be able to:

- CO1 Develop PLC ladder logic programs for given process sequence
- CO2 Apply the programming in PLC Hardware.

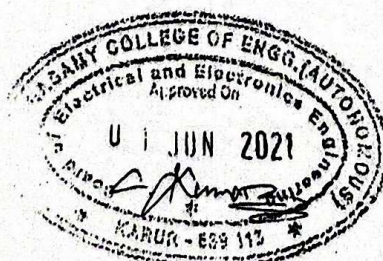
CO-PO Mapping

COs	POs												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	1	1	1	1	1	2	1	3	3	3	2	2
CO2	3	3	2	1	1	1	1	1	2	1	3	3	3	2	2
CO (Avg)	3	3	2	1	1	1	1	1	2	1	3	3	3	2	2

1: Slight (Low)

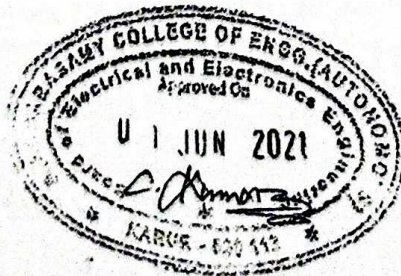
2: Moderate (Medium)

3: Substantial (High)





MODULE I	5
Electrical Automation-Introduction to Control System-Types Of control System, PLC, DCS, SCADA-Electrical Field Instruments-Control Panel Wirings, Power Supply.	
MODULE II	5
Input Module (Digital-Analog)-Output Module (Digital-Analog)- Hardware Configuration of PLC-Relay Logics-Bit Logics-Programming Language, Ladder Concept-Programming Instructions-Simulating Program Functions in Delta PLC Software-Simulating Practical Tasks-Hardware Description-Program With DELTA DVP , Siemens S7-1200 PLC-Timer Function-Counter Function-Math Function-Compare Function-Program -Upload/Download-Tricks & Tips.	
MODULE III	5
Various proto type models	
Reference (s)	
1	Kenney, Muirae (2020-11-24). "The Basics of Ladder Logic". Automation Industrial. Retrieved 2020-11-24.
2	Maher, Michael J. "Real-Time Control and Communications", 18th Annual ESD/SMI International Programmable Controllers Conference Proceedings, 1989, p. 431-436.
3	M. A. Laughton, D. J. Warne (ed), "Electrical Engineer's Reference book", 16th edition, Newnes, 2003 Chapter 16 Programmable Controller
4	Bennett, S. (1979), "A History of Control Engineering", 1800-1930. London: Peter Peregrinus Ltd. pp. 47, 266. ISBN 978-0-86341-047-5.





Prabhakaran .V
Director - Technical

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E minepowerindia@gmail.com
W www.minepower.in



MINE POWER
CONTROLS & SYSTEMS
237-D, 1st Street, Annanagar,
Near Balaji Hospital,
Sundharapuram,
Coimbatore - 641 024.

AWARDS

Director - Technical, Automation, MINE POWER CONTROLS & SYSTEMS,
Coimbatore. Dec 2016 - XXX 20XX

DOCTOR OF BUSINESS,
INTERNATIONAL GLOBAL
PEACE UNIVERSITY.

Providing Industrial Automation Projects & Services
Troubleshooting, Repairs, Modifications, retrofits, more on:
SCADA System, PLC System, SERVO System, CNC System, SPM Machines,
Industrial Control Panels, Plasma & Flame Machines, Furnaces Automation,

GOLD STAR
MILLENNIUM,
THE PEAKS Magazine.

APPLICATION ENGINEER, Automation, SMAP TECH ENTERPRISES,
Coimbatore. Dec 2014 - MAR -2015

BHARTH JOTHI
EXCELLENCE,
NATIONAL INTEGRITY
CULTURAL ACADEMY.

A competent Application engineer with a comprehensive knowledge of designing
developing and maintaining electrical systems
Preparation of Electrical procedures for installation test & commissioning.
Development of PLC logic program equipping with PLC/HMI.
Designing of SCADA based application screens.
VFD & Servo Installation And Application Development
Control panel Wiring & Designing.

ACHIEVEMENT

Orientation Cum Skill
Upgradation
Programme.OMCL.

INDUSTRIAL PROCESS AUTOMATION TRAINING, AXIS Global,
Coimbatore. Dec 2015 - Feb 2016

L&T Electrician's
Training Programme.

PLC - AB(Micro Logic), ABB, DELTA(DVP Series),
SIEMENS, SCHNEIDER, MITSUBISHI, OMRON, HORNER, KEYENCE.
HMI - DELTA (DOP Series), ABB, SCHNEIDER.
VFD - ABB, DELTA (Installation and Control Techniques).DCS - ABB.
SCADA - WONDERWARE INTOUCH (Version 10), Intellution Fix32, RS View 32.

Automation
Products Training,
Lubi Electronics

EDUCATION

Diploma in EEE,
Jeeva's polytechnic, CBE
90% 2010 - 2013

TECHNICAL APPRENTICE, Electrical, Power House 3, TANGEDCO,
Kundha. Nov 2013 - Nov 2014

ITI (Wire man)
NCVT, Govt. ITI, Coimbatore.
80% 2006 - 2008

180MW Power House - Electrical Safety Procedures, Fundamentals of
Electricity & Power Generation,
700A Alternator Maintenance, 11KV to 230KV Transformer
Installation & Maintenance,
Wiring Techniques, Electrical Services & Circuit Breakers, Electric Control Circuit
Diagnostics, Power System Maintenance & Installation.

LAB TECHNICIAN, (ECE), SRI ESWAR COLLEGE OF ENGG, Kinathukadavu,
Coimbatore. Mar 2010 - Aug 2010

LAB TECHNICIAN, (ECE), TAMILNADU COLLEGE OF ENGG, Karumathampatty,
Coimbatore. Nov 2008 - Feb 2010



M.KUMARASAMY COLLEGE OF ENGINEERING, KARUR - 639 113

(An Autonomous Institution Affiliated to Anna University, Chennai)

Students Name List

Printed On : 25-11-2022

Faculty Id & Name : 1141018 - Mr.SELVAM N

Designation : Assistant Professor

Department : B.E.(Electrical and Electronics Engineering)

Batch : 2020-2024

Course Code & Name : 18EEX003J - PLC AND ITS APPLICATIONS

Day & Hour : Wednesday & 9

Semester : 5

S.No.	Register No.	Name	Date of Birth	Gender
1.	20BEE4055	20BEE4055 - NANTHAKUMAR P	13-06-2003	Male
2.	20BEE4056	20BEE4056 - NARENDHIRAN S	10-09-2002	Male
3.	20BEE4057	20BEE4057 - NAVEEN G	12-09-2002	Male
4.	20BEE4058	20BEE4058 - NIKITHA K	29-03-2002	Female
5.	20BEE4059	20BEE4059 - NIRMALKUMAR C	16-05-2003	Male
6.	20BEE4060	20BEE4060 - NITHISH M	20-07-2002	Male
7.	20BEE4061	20BEE4061 - NITHISHKUMAR C	16-05-2003	Male
8.	20BEE4063	20BEE4063 - PRADEEPA S	24-06-2002	Female
9.	20BEE4065	20BEE4065 - PRASHANNA SRI M	03-06-2003	Female
10.	20BEE4066	20BEE4066 - PRAVINKUMAR J	11-08-2002	Male
11.	20BEE4067	20BEE4067 - RAGAVAN S	26-01-2003	Male
12.	20BEE4068	20BEE4068 - RAGUL P	01-12-2002	Male
13.	20BEE4069	20BEE4069 - RAJA P	17-08-2002	Male
14.	20BEE4070	20BEE4070 - RAMESH S	11-09-2002	Male
15.	20BEE4071	20BEE4071 - RAMYA M	15-02-2003	Female
16.	20BEE4072	20BEE4072 - RUBA P	15-05-2003	Female
17.	20BEE4073	20BEE4073 - SABARINATHAN P	07-06-2002	Male
18.	20BEE4074	20BEE4074 - SABARISH C	06-01-2003	Male
19.	20BEE4075	20BEE4075 - SAKTHIVEL M	17-09-2002	Male
20.	20BEE4076	20BEE4076 - SAKTHIVEL P	14-09-2002	Male
21.	20BEE4077	20BEE4077 - SAKTHIVEL S	21-10-2002	Male
22.	20BEE4078	20BEE4078 - SANJAI S	26-10-2002	Male
23.	20BEE4079	20BEE4079 - SANTHOSH K	21-09-2002	Male
24.	20BEE4080	20BEE4080 - SARANYA M	05-03-2003	Female
25.	20BEE4081	20BEE4081 - SARIBA MUNOVARA A	22-05-2003	Female
26.	20BEE4082	20BEE4082 - SATHISH R	24-06-2003	Male
27.	20BEE4083	20BEE4083 - SATHISH T	10-01-2003	Male
28.	20BEE4084	20BEE4084 - SHALINI M	12-08-2002	Female
29.	20BEE4085	20BEE4085 - SHALINI P	04-09-2002	Female
30.	20BEE4086	20BEE4086 - SHANTHOSH K	13-11-2002	Male
31.	20BEE4087	20BEE4087 - SIBIRAJ R	16-09-2002	Male
32.	20BEE4088	20BEE4088 - SIVAJANANI G	21-05-2003	Female
33.	20BEE4089	20BEE4089 - SIVAKUMAR S	24-06-2003	Male
34.	20BEE4090	20BEE4090 - SIVASELVAN S	09-12-2002	Male



M.KUMARASAMY COLLEGE OF ENGINEERING, KARUR - 639 113

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Students Name List

Printed On : 25-11-2022

Faculty Id & Name : 1141018 - Mr.SELVAM N

Designation : Assistant Professor

Department : B.E.(Electrical and Electronics Engineering)

Batch : 2020-2024

Course Code & Name : 18EEX003J - PLC AND ITS APPLICATIONS

Day & Hour : Wednesday & 9

Semester : 5

S.No.	Register No.	Name	Date of Birth	Gender
35.	20BEE4091	20BEE4091 - SRINITHA R	16-11-2002	Female
36.	20BEE4092	20BEE4092 - SRIRAM K	30-12-2002	Male
37.	20BEE4093	20BEE4093 - SUDAHAR R	02-03-2003	Male
38.	20BEE4094	20BEE4094 - SUDHARSAN T	05-12-2003	Male
39.	20BEE4095	20BEE4095 - SUGADEV M	28-09-2000	Male
40.	20BEE4096	20BEE4096 - SUGANTHAKUMAR S	13-09-2003	Male
41.	20BEE4097	20BEE4097 - SUGUNESH R	18-11-2002	Male
42.	20BEE4098	20BEE4098 - SUJEETHVISHNU V	17-08-2003	Male
43.	20BEE4099	20BEE4099 - SUJITH P	06-01-2003	Male
44.	20BEE4100	20BEE4100 - SURIYAKUMAR N	13-02-2003	Male
45.	20BEE4101	20BEE4101 - SURYA K	15-12-2002	Male
46.	20BEE4102	20BEE4102 - SURYA S	20-05-2003	Female
47.	20BEE4103	20BEE4103 - SUSMITHA S	03-04-2003	Female
48.	20BEE4104	20BEE4104 - VARUN REVANTH R M	19-12-2002	Male
49.	20BEE4105	20BEE4105 - VIGNESH C	23-10-2002	Male
50.	20BEE4106	20BEE4106 - VIJAYABALAN S	31-07-2003	Male
51.	20BEE4107	20BEE4107 - VIJAYABHARANI D	15-07-2002	Male
52.	20BEE4108	20BEE4108 - YESVANTH B	20-04-2003	Male
53.	20BEE4109	20BEE4109 - YOGESHWARAN S	03-06-2002	Male
54.	20BEE4308	20BEE4308 - KAMALESH P	18-04-2002	Male
55.	20BEE4313	20BEE4313 - KAVIYARASAN T	06-08-2001	Male
56.	20BEE4315	20BEE4315 - MADHANPRAKASH S	20-08-2001	Male
57.	20BEE4316	20BEE4316 - MOUREESWARAN R	12-05-2000	Male
58.	20BEE4317	20BEE4317 - NARESH S	14-06-2003	Male
59.	20BEE4318	20BEE4318 - PRITHVIRAJ B	02-08-2003	Male
60.	20BEE4319	20BEE4319 - RANJITH KUMAR J	29-10-2002	Male
61.	20BEE4320	20BEE4320 - SARANBABU B.C	02-07-2002	Male
62.	20BEE4321	20BEE4321 - SUBASH S	24-06-2003	Male
63.	20BEE4322	20BEE4322 - THINESH KUMAR G	15-06-2002	Male
64.	20BEE4323	20BEE4323 - VISWANATHAN P	21-02-2002	Male
65.	20BEE4324	20BEE4324 - YUVANSHANKAR M	26-08-2001	Male

N. G. Srinivasan
Staff Incharge

C. Kumarasamy
HEAD OF THE DEPARTMENT
Dept. of Electrical & Electronics Engg.
M. Kumarasamy College Of Engineering
Karur-639 113



Department of Electrical and Electronics Engineering
Academic Year 2022-2023 / Odd Semester
One Credit Course on "PLC and Its Applications"

Year / Sec - III / B

Attendance Record

Time - 8.40 am - 4.40 pm

Date : 24-11-2022 & 25-11-2022

Venue - EEE Lab-1

S.NO	Register No.	Name	24.11.2022 FN	24.11.2022 AN	25.11.2022 FN	25.11.2022 AN
1	20BEE4055	NANTHAKUMAR P	P.Nanthan	P.Nanthan	P.Nanthan	P.Nanthan
2	20BEE4056	NARENDHIRAN S	S.NAN	S.NAN	S.NAN	S.NAN
3	20BEE4057	NAVEEN G	G.Naveen	G.Naveen	G.Naveen	G.Naveen
4	20BEE4058	NIKITHA K	K.Nikitha	K.Nikitha	K.Nikitha	K.Nikitha
5	20BEE4059	NIRMALKUMAR C	C.Nirmal	C.Nirmal	C.Nirmal	C.Nirmal
6	20BEE4060	NITHISH M	M.Nithish	M.Nithish	M.Nithish	M.Nithish
7	20BEE4061	NITHISHKUMAR C	C.Nithish	C.Nithish	C.Nithish	C.Nithish
8	20BEE4063	PRADEEPA S	S.Pradeepa	S.Pradeepa	S.Pradeepa	S.Pradeepa
9	20BEE4065	PRASHANNA SRI M	M.Prashanna	M.Prashanna	M.Prashanna	M.Prashanna
10	20BEE4066	PRAVINKUMAR J	J.Pravin	J.Pravin	J.Pravin	J.Pravin
11	20BEE4067	RAGAVAN S	S.Ragav	S.Ragav	S.Ragav	S.Ragav
12	20BEE4068	RAGUL P	P.Ragul	P.Ragul	P.Ragul	P.Ragul
13	20BEE4069	RAJA P	P.Raja	P.Raja	P.Raja	P.Raja
14	20BEE4070	RAMESH S	S.Ramesh	S.Ramesh	S.Ramesh	S.Ramesh
15	20BEE4071	RAMYA M	M.Ramya	M.Ramya	M.Ramya	M.Ramya
16	20BEE4072	RUBA P	P.Ruba	P.Ruba	P.Ruba	P.Ruba
17	20BEE4073	SABARINATHAN P	P.Sabar	P.Sabar	P.Sabar	P.Sabar
18	20BEE4074	SABARISH C	C.Sabarish	C.Sabarish	C.Sabarish	C.Sabarish
19	20BEE4075	SAKTHIVEL M	M.Sakthivel	M.Sakthivel	M.Sakthivel	M.Sakthivel
20	20BEE4076	SAKTHIVEL P	P.Sakthivel	P.Sakthivel	P.Sakthivel	P.Sakthivel
21	20BEE4077	SAKTHIVEL S	S.Sakthivel	S.Sakthivel	S.Sakthivel	S.Sakthivel
22	20BEE4078	SANJAI S	S.Sanjai	S.Sanjai	S.Sanjai	S.Sanjai
23	20BEE4079	SANTHOSH K	K.Santhosh	K.Santhosh	K.Santhosh	K.Santhosh
24	20BEE4080	SARANYA M	M.Saranya	M.Saranya	M.Saranya	M.Saranya
25	20BEE4081	SARIBA MUNOVARA A	A.Sariba	A.Sariba	A.Sariba	A.Sariba
26	20BEE4082	SATHISH R	R.Sathish	R.Sathish	R.Sathish	R.Sathish
27	20BEE4083	SATHISH T	T.Sathish	T.Sathish	T.Sathish	T.Sathish
28	20BEE4084	SHALINI M	M.Shalini	M.Shalini	M.Shalini	M.Shalini
29	20BEE4085	SHALINI P	P.Shalini	P.Shalini	P.Shalini	P.Shalini
30	20BEE4086	SHANTHOSH K	K.Shanthosh	K.Shanthosh	K.Shanthosh	K.Shanthosh

31	20BEE4087	SIBIRAJ R	R. Siba	R. Siba	R. Siba	R. Siba
32	20BEE4088	SIVAJANANI G	G. Siff	G. Siff	G. Siff	G. Siff
33	20BEE4089	SIVAKUMAR S	S. Seva	S. Seva	S. Seva	S. Seva
34	20BEE4090	SIVASELVAN S	S. Siva Selva	S. Siva Selva	S. Siva Selva	S. Siva Selva
35	20BEE4091	SRINITHA R	R. Siffa	R. Siffa	R. Siffa	R. Siffa
36	20BEE4092	SRIRAM K	K. Chy	K. Chy	K. Chy	K. Chy
37	20BEE4093	SUDAHAR R	R. Suddhar	R. Suddhar	R. Suddhar	R. Suddhar
38	20BEE4094	SUDHARSAN T	T. Suddha	T. Suddha	T. Suddha	T. Suddha
39	20BEE4095	SUGADEV M	M. Sudda	M. Sudda	M. Sudda	M. Sudda
40	20BEE4096	SUGANTHAKUMAR S	S. Suddha	S. Suddha	S. Suddha	S. Suddha
41	20BEE4097	SUGUNESH R	R. Suddha	R. Suddha	R. Suddha	R. Suddha
42	20BEE4098	SUJEETHVISHNU V	V. Suddha	V. Suddha	V. Suddha	V. Suddha
43	20BEE4099	SUJITH P	P. Suddha	P. Suddha	P. Suddha	P. Suddha
44	20BEE4100	SURIYA KUMAR N	N. Siff	N. Siff	N. Siff	N. Siff
45	20BEE4101	SURYA K	K. Siff	K. Siff	K. Siff	K. Siff
46	20BEE4102	SURYA S	S. Siff	S. Siff	S. Siff	S. Siff
47	20BEE4103	SUSMITHA S	S. Siff	S. Siff	S. Siff	S. Siff
48	20BEE4104	VARUN REVANTH R M	R. Suddha	R. Suddha	R. Suddha	R. Suddha
49	20BEE4105	VIGNESH C	C. Suddha	C. Suddha	C. Suddha	C. Suddha
50	20BEE4106	VIJAYABALAN S	S. Suddha	S. Suddha	S. Suddha	S. Suddha
51	20BEE4107	VIJAYABHARANI D	D. Suddha	D. Suddha	D. Suddha	D. Suddha
52	20BEE4108	YESVANTH B	B. Suddha	B. Suddha	B. Suddha	B. Suddha
53	20BEE4109	YOGESHWARAN S	S. Suddha	S. Suddha	S. Suddha	S. Suddha
54	20BEE4308	KAMALESH P	P. Suddha	P. Suddha	P. Suddha	P. Suddha
55	20BEE4313	KAVIYARASANT	T. Siff	T. Siff	T. Siff	T. Siff
56	20BEE4315	MADHANPRAKASH S	S. Madhan	S. Madhan	S. Madhan	S. Madhan
57	20BEE4316	MOUREESWARAN R	R. Suddha	R. Suddha	R. Suddha	R. Suddha
58	20BEE4317	NARESH S	S. Niff	S. Niff	S. Niff	S. Niff
59	20BEE4318	PRITHVIRAJ B	B. Suddha	B. Suddha	B. Suddha	B. Suddha
60	20BEE4319	RANJITH KUMAR J	J. Suddha	J. Suddha	J. Suddha	J. Suddha
61	20BEE4320	SARANBABU B C	B. Suddha	B. Suddha	B. Suddha	B. Suddha
62	20BEE4321	SUBASH S	S. Siff	S. Siff	S. Siff	S. Siff
63	20BEE4322	THINESH KUMAR G	G. Suddha	G. Suddha	G. Suddha	G. Suddha
64	20BEE4323	VISWANATHAN P	P. Suddha	P. Suddha	P. Suddha	P. Suddha
65	20BEE4324	YUVANSHANKAR M	M. Suddha	M. Suddha	M. Suddha	M. Suddha

N. S. Srinivasan
Staff Incharge
24/11/2022

C. Kumar
HoD/EEE

HEAD OF THE DEPARTMENT
Dept. of Electrical & Electronics Engg.
M. Kumarasamy College Of Engineering
Karur-639 113.



EMPLOYERS FEEDBACK ON CURRICULUM

Dear Employers,

As industry is the ultimate customer of engineering graduates, its satisfaction about standards and content of **M.Kumarasamy College of Engineering** products is important. We always maintain a continuous dialogue accordingly. As the ultimate beneficiary of our quality product your support and feedback will help us to maintain the required standards of education. Here are some of the points to facilitate you in giving feedback about our students. You are requested to give marks in the box provided against each item as per the following norms.

Excellent (5)	Very Good (4)	Good (3)	Average (2)	Poor (1)
---------------	---------------	----------	-------------	----------

Name of the Company : Mine power controls and systems, Coimbatore

Name of the evaluating person with Designation: Mr. V. Prabhakaran, Director - Techni

About M.Kumarasamy College of Engineering Products already employed:

S No	Questionarie	Excellent	Very good	Good	Average	Poor
1	Content and coverage of curriculum		✓			
2	Adequacy of core courses in the curriculum	✓				
3	Adequacy of elective courses in the curriculum	✓				
4	Inclusion of practical content in the curriculum	✓				
5	Knowledge about recent tools and their usage		✓			
6	Developing practical solutions to work place problems	✓				
7	Self-motivated and taking on appropriate level of responsibility	✓				
8	Technical knowledge/skill ability to manage/leadership innovativeness	✓				
9	Ability to contribute to the goal of the organization and relationship with seniors/peers/subordinates	✓				
10	Obligation to work beyond schedule if required	✓				

Date: 25/11/22



Signature of the Employer



Register Number:

--	--	--	--	--	--	--	--	--	--

ASSESSMENT TEST -1
III Year / 5th Semester
18EEX003J-PLC AND ITS APPLICATIONS
(ELECTRICAL AND ELECTRONICS ENGINEERING)

Date: 25-11-2022

Maximum: 40 Marks

Time Duration: 1 hour

Answer All Questions
PART A – (20 x 2 = 40 marks)

1.	Draw the latch contactor diagram.	CO1	K1
2.	Define timer with instruction.	CO1	K1
3.	State five commercial application of PLC.	CO1	K1
4.	List down the general application of PLC for control	CO1	K1
5.	Difference between SCADA and HMI.	CO1	K2
6.	Define relay and draw an OR gate logic.	CO1	K1
7.	What is an internal relay in PLC?	CO1	K1
8.	What is sink and source mode?	CO1	K1
9.	What are the factors consider during PLC selection.	CO1	K1
10.	What the rules of Ladder Logic?	CO1	K1
11.	Difference between relay and plc.	CO2	K2
12.	Draw the sink input of PLC.	CO2	K1
13.	How VFD is better than starters?	CO2	K1
14.	Write six instructions.	CO2	K1
15.	Write the programme for the automatic bottle rejection process.	CO2	K2
16.	Write the program about one commercial application.	CO2	K2
17.	Write notes about RS-232 communication	CO2	K1
18.	Explain the PLC operational elements.	CO2	K2
19.	Write about the functions of VFD system.	CO2	K1
20.	Draw the diagram of DOL starter.	CO2	K1

N. Of
Faculty incharge

C. Kumarasamy
HOD/EEE

HEAD OF THE DEPARTMENT
Dept. of Electrical & Electronics Engg.
M. Kumarasamy College Of Engineering
Karur-639 113.

Assessment Test-1.

NAME : P. RUBA

REG. NO : 20BEE4072

YEAR / SEM : III / V

SECTION : B

DEPARTMENT : ELECTRICAL AND

ELECTRONICS ENGINEERING

SUBJECT : PROGRAMMABLE LOGIC

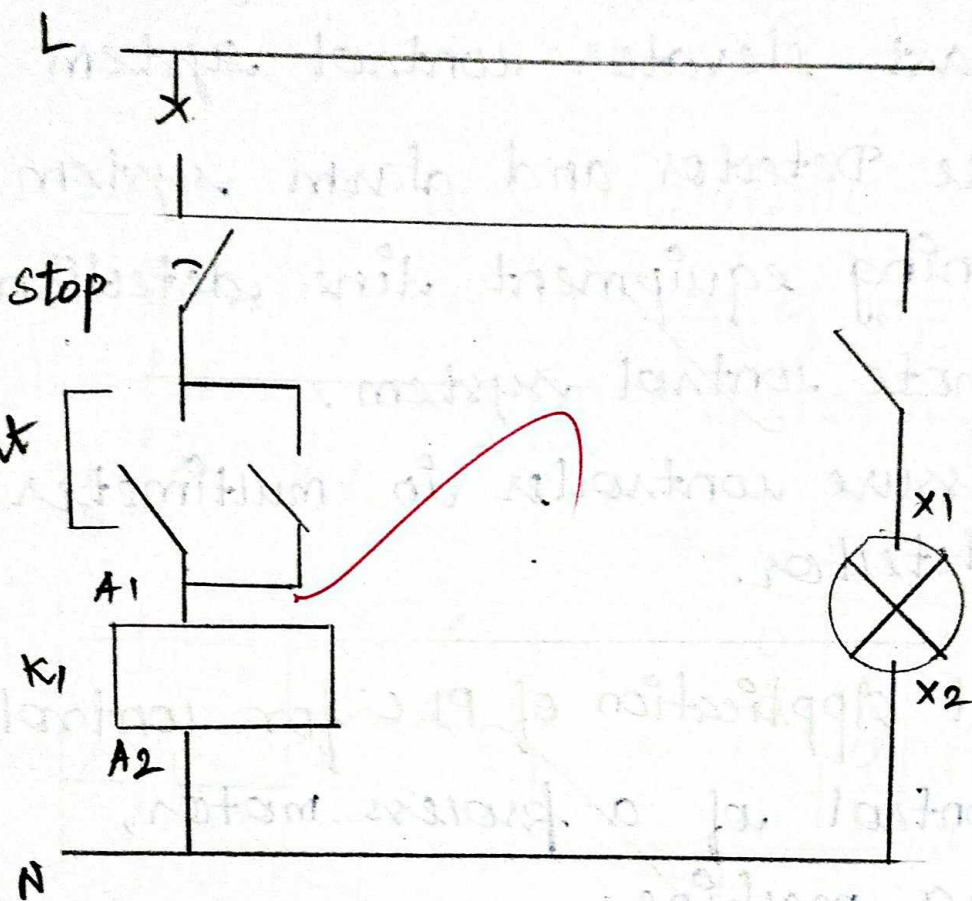
CONTROLLER AND ITS APPLICATIONS

SUB CODE : 18EEX003J

40
40

~~N. S. Kumar~~

1. Latch contactor Diagram:



2. Timer with Instruction:

A timer is a PLC instruction measuring the amount of time elapsed. Timer instructions come in two basic types on delay timers and off delay timers. Both have single inputs triggering the timed functions.

3. Commercial application of PLC:

- * Smart traffic control signal system.
- * Smart elevator control system
- * Fire Detector and alarm system.
- * Mining equipment line detection and remote control system.
- * Pressure controller in multimeter pump detector.

4. General Application of PLC for control:

- * Control of a process motor, vibrating machine.
- * Control of a two pneumatic piston
- * Detecting sorting, packing unit.

5. Difference between SCADA and HMI:-

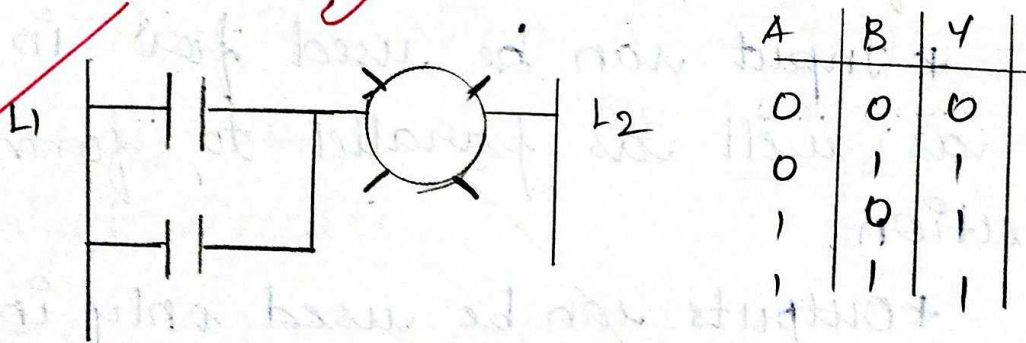
* The main difference is a remote monitoring system, whereas HMI is a local to machine.

* HMI for example would be placed on the control panel near a part of the machine whereas SCADA.

SCADA would be setup in a control room far away from the machine itself.

6. Relay:

A relay is an electrically operated switch. It consists of a set of input terminals for a signal operating control terminals.



7. Internal Relay in PLC:

* Sink and source are terms used to define the flow of direct current in an electric circuit.

* A sinking (digital input/output) provides a grounded connection to the load, whereas a sourcing (digital input/output) provides a voltage source to the load.

9. Factors to be considered for selecting PLC case

- * System definition
- * Choosing the input and output hardware
- * Analog input/output module
- * Input/output timing consideration.

10. Rules of ladder logic:

* Input can be used for in series as well as parallel to form a connection.

* Outputs can be used only in parallel.

* One input can be used in multiple times in one diagram

* One output cannot be used multiple times in one program except in set/Reset and latch/unlatch function

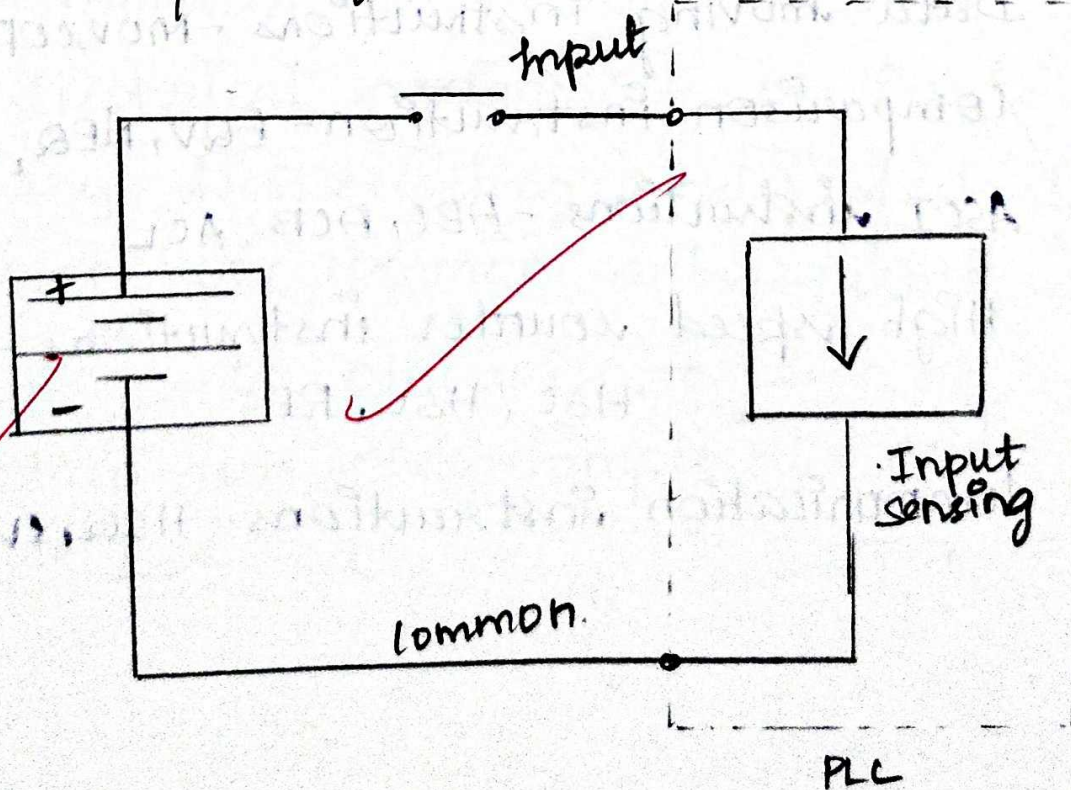
* Input address cannot be used as output.

11. Difference between Relay and PLC :-

* The difference between a PLC and relay logic is that PLC is a programmable device whereas relay logic is a network of hardwired electrical devices.

* Both PLC and relay logic can perform logic computation but a PLC does it using a microprocessor and relay logic does it using electrical circuits.

12. Sink input of PLC :-



13. VFD - Reason:

A VFD would be better than a soft starter because the speed of the fan will need to vary. The main difference between two is that a VFD can vary the speed of a motor while a soft starter only controls the starting and stopping of the motor.

14. Six Instruction:-

Relay type instruction - IO, OR, SET

Data moving instructions - MOV, COP

Comparison instruction - EQV, NEQ, GREQ

ASCII instructions - ABC, ACB, ACL

High speed counter instructions - HSC, HSL, RES

Communication instructions - HSC, SVC.

15. Program for automatic bottle rejection process:

* PLC program for automatic bottle rejection system is PLC program. Nowadays the automation in industries is necessary for accurate and fast production.

* Fallen bottle on the conveyor may create problem in next process. So we discuss a simple PLC logic which handles fallen bottle.

16. Program about commercial applications

* Commercial application means the electrical assignment or license of any thing existing under federal or state or common subsequence.

on otherwise, explore on uncertain or work sample - I and sample II.

17. RS-232 communication:-

It stands for "Recommended standard 232" and it is a type of serial communication used for transmission of data normally in medium distance and defines the signal connecting between DTE and DCE. DTE stands for DATA terminal equipment; DCE stands for Data connect Equipment.

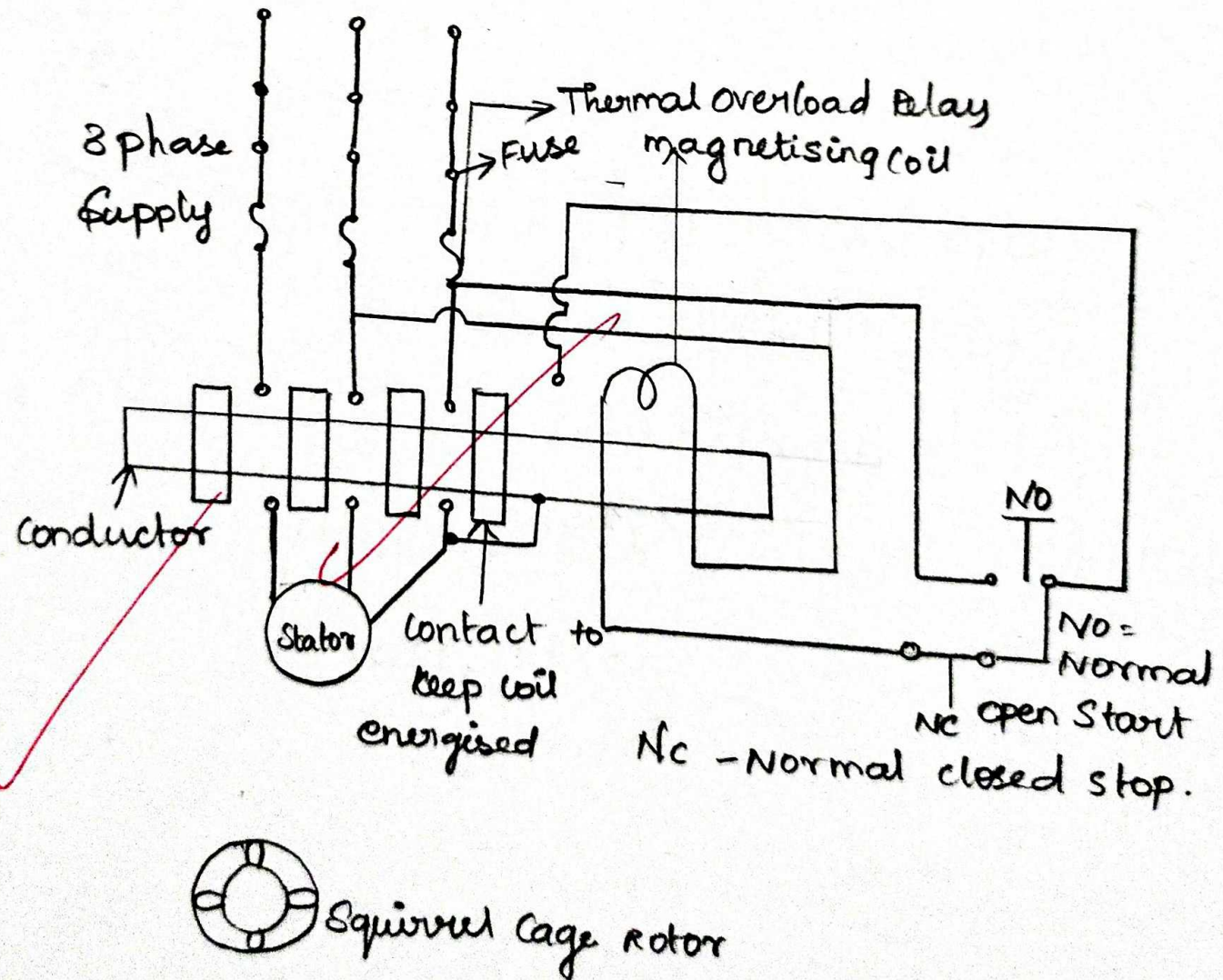
18. LC Operational elements:

- * Processor
- * Power supply
- * Input/output system
- * The processor or the brain of PLC system is said to be solid device designed to perform a wide variety of production, machine tool, process.

19. Function of VFD system:

A variable frequency devices is a type of motor controller that drives a electric motor by varying the frequency and voltage of a power supply. The VFD also has the capacity to control ramp up - ramp down of motor.

20. Diagram of DOL starter:





M.KUMARASAMY COLLEGE OF ENGINEERING, KARUR - 639 113

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COE

Course Consolidated Internal Marks

Department : B.E.(Electrical and Electronics Engineering)

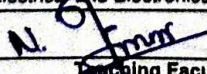
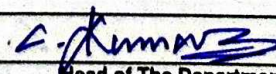
Semester : 5

Batch : 2020-2024

Section : B

Course Code & Name : 18EEX003J - PLC AND ITS APPLICATIONS

S.No.	Reg. No.	Name	Internal Marks(Max. 100 Marks)	Internal Marks(In Words)
1	20BEE4055	NANTHAKUMAR P	88	EIGHT EIGHT
2	20BEE4056	NARENDHIRAN S	97	NINE SEVEN
3	20BEE4057	NAVEEN G	97	NINE SEVEN
4	20BEE4058	NIKITHA K	96	NINE SIX
5	20BEE4059	NIRMALKUMAR C	96	NINE SIX
6	20BEE4060	NITHISH M	90	NINE ZERO
7	20BEE4061	NITHISHKUMAR C	92	NINE TWO
8	20BEE4063	PRADEEPA S	97	NINE SEVEN
9	20BEE4065	PRASHANNA SRI M	98	NINE EIGHT
10	20BEE4066	PRAVINKUMAR J	88	EIGHT EIGHT
11	20BEE4067	RAGAVAN S	87	EIGHT SEVEN
12	20BEE4068	RAGUL P	90	NINE ZERO
13	20BEE4069	RAJA P	90	NINE ZERO
14	20BEE4070	RAMESH S	90	NINE ZERO
15	20BEE4071	RAMYA M	94	NINE FOUR
16	20BEE4072	RUBA P	98	NINE EIGHT
17	20BEE4073	SABARINATHAN P	97	NINE SEVEN
18	20BEE4074	SABARISH C	96	NINE SIX
19	20BEE4075	SAKTHIVEL M	96	NINE SIX
20	20BEE4076	SAKTHIVEL P	90	NINE ZERO
21	20BEE4077	SAKTHIVEL S	88	EIGHT EIGHT
22	20BEE4078	SANJAI S	97	NINE SEVEN
23	20BEE4079	SANTHOSH K	96	NINE SIX
24	20BEE4080	SARANYA M	94	NINE FOUR
25	20BEE4081	SARIBA MUNOVARA A	98	NINE EIGHT
26	20BEE4082	SATHISH R	92	NINE TWO
27	20BEE4083	SATHISH T	91	NINE ONE
28	20BEE4084	SHALINI M	94	NINE FOUR
29	20BEE4085	SHALINI P	94	NINE FOUR
30	20BEE4086	SHANTHOSH K	87	EIGHT SEVEN

Name	Mr. SELVAM N Assistant Professor B.E.(Electrical and Electronics Engineering)	Dr. KUMAR C Professor	
Signature with Date	 N. Selvam N Teaching Faculty	 Dr. Kumar C Head of The Department	

Principal



Course Consolidated Internal Marks

Department : B.E.(Electrical and Electronics Engineering)
Semester : 5

Batch : 2020-2024
Section : B

Course Code & Name : 18EEX003J - PLC AND ITS APPLICATIONS

S.No.	Reg. No.	Name	Internal Marks(Max. 100 Marks)	Internal Marks(In Words)
31	20BEE4087	SIBIRAJ R	90	NINE ZERO
32	20BEE4088	SIVAJANANI G	90	NINE ZERO
33	20BEE4089	SIVAKUMAR S	90	NINE ZERO
34	20BEE4090	SIVASELVAN S	96	NINE SIX
35	20BEE4091	SRINITHA R	90	NINE ZERO
36	20BEE4092	SRIRAM K	92	NINE TWO
37	20BEE4093	SUDAHAR R	94	NINE FOUR
38	20BEE4094	SUDHARSAN T	90	NINE ZERO
39	20BEE4095	SUGADEV M	90	NINE ZERO
40	20BEE4096	SUGANTHAKUMAR S	90	NINE ZERO
41	20BEE4097	SUGUNESH R	94	NINE FOUR
42	20BEE4098	SUJEETHVISHNU V	90	NINE ZERO
43	20BEE4099	SUJITH P	92	NINE TWO
44	20BEE4100	SURIYAKUMAR N	87	EIGHT SEVEN
45	20BEE4101	SURYA K	96	NINE SIX
46	20BEE4102	SURYA S	98	NINE EIGHT
47	20BEE4103	SUSMITHA S	94	NINE FOUR
48	20BEE4104	VARUN REVANTH R M	90	NINE ZERO
49	20BEE4105	VIGNESH C	96	NINE SIX
50	20BEE4106	VIJAYABALAN S	87	EIGHT SEVEN
51	20BEE4107	VIJAYABHARANI D	90	NINE ZERO
52	20BEE4108	YESVANTH B	90	NINE ZERO
53	20BEE4109	YOGESHWARAN S	90	NINE ZERO
54	20BEE4308	KAMALESH P	90	NINE ZERO
55	20BEE4313	KAVIYARASAN T	94	NINE FOUR
56	20BEE4315	MADHANPRAKASH S	96	NINE SIX
57	20BEE4316	MOUREESWARAN R	96	NINE SIX
58	20BEE4317	NARESH S	90	NINE ZERO
59	20BEE4318	PRITHVIRAJ B	94	NINE FOUR
60	20BEE4319	RANJITH KUMAR J	86	EIGHT SIX

Name	Mr. SELVAM N Assistant Professor B.E.(Electrical and Electronics Engineering)	Dr. KUMAR C Professor	
Signature with Date	 Teaching Faculty	 Head of The Department	Principal



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Department : B.E.(Electrical and Electronics Engineering)

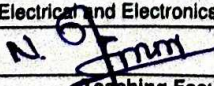
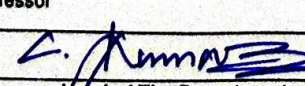
Semester : 5

Batch : 2020-2024

Section : B

Course Code & Name : 18EEX003J - PLC AND ITS APPLICATIONS

S.No.	Reg. No.	Name	Internal Marks(Max. 100 Marks)	Internal Marks(In Words)
61	20BEE4320	SARANBABU B.C	90	NINE ZERO
62	20BEE4321	SUBASH S	86	EIGHT SIX
63	20BEE4322	THINESH KUMAR G	90	NINE ZERO
64	20BEE4323	VISWANATHAN P	90	NINE ZERO
65	20BEE4324	YUVANSHANKAR M	86	EIGHT SIX

Name	Mr. SELVAM N Assistant Professor B.E.(Electrical and Electronics Engineering)	Dr. KUMAR C Professor	
Signature with Date	 Teaching Faculty	 Head of The Department	 Principal



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Thalavapalayam, Karur - 639 113.



Department of Electrical and Electronics Engineering

One Credit Course

18EEX004J- IoT for Robotics

YEAR / SEM	III YEAR/ V SEM
BATCH	2020-2024
FACULTY TRAINER	Dr.B.Ezhilavan
FACULTY INCHARGE	Mrs.P.Sasirekha
COURSE DURATION	TWO DAYS (24-11-22 & 25-11-22)
NUMBER OF STUDENTS ATTENDED THE COURSE	64



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Thalavapalayam, Karur – 639 113.



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Cordially invites you all for One Credit Course

on

“IOT FOR ROBOTICS”

III YEAR – A SECTION

Resource Person

Dr. B. Ezhilavan
Founder & CEO
VEI technologies PVT.LTD,
Chennai.

Venue: APJ Block, EEE Lab-1
Date: 24.11.2022 & 25.11.2022
Timing: 8.40AM – 4.40PM

Dr.K.Ramakrishnan
Secretary

Dr.S.Kuppusamy
Executive Director

Dr.N.Ramesh Babu
Principal

Dr.C.Kumar
HoD/EEE

Mrs.P.Sasirekha
One Credit in-charge



Regulation 2018		One Credit course	Total Hours	15		
Category	Course Code	Course Name	Hours / Week		C	
			L	T		P
X	18EEX004J	IOT FOR ROBOTICS	1	0	2	1

Prerequisite Course (s)

Programming for Problem Solving, Digital Electronics

Course Objective (s): The purpose of learning this course is to:

- 1 Build a programming skill in IoT
- 2 Acquire skill to interface IoT with robotics hardware

Course Outcome (s) (COs): At the end of this course, learners will be able to:

- CO1 Develop the programme in IoT for robotics application.
- CO2 Model water feeding robot, fire fighting robot, autonomous driving car robot pick and place robot, industrial conveyor robot.

CO-PO Mapping

Cos	POs												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	1	1	1	1	1	1	1	3	3	2	2	1
CO2	3	3	2	1	1	1	1	1	1	1	3	3	2	2	1
CO (Avg)	3	3	2	1	1	1	1	1	1	1	3	3	2	2	1

1: Slight (Low)

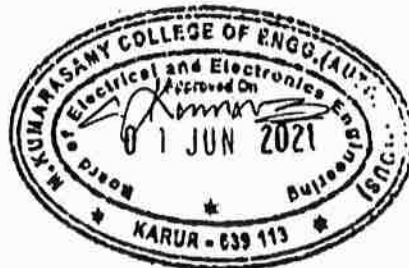
2: Moderate (Medium)

3: Substantial (High)





MODULE I	5
Introduction to robotics- Basics about Embedded system and Microcontrollers-Software and Hardware system -Embedded c program -Variable declaration-Operators -Conditions -Loops-Functions-Pointers-Batteries for Robot-Power -supply circuit (AC-DC 12V and 5V)- Arduino uno ide installation- Arduino uno board first program and its applications.	
MODULE II	5
Interfacings- Analog sensor, Digital sensor, Relay,LCD,L293 Motor driver, Water pump, Ultrasonic, IR Sensor, PIR sensor, Fire sensor ,Bluetooth, RF control, Proteus design-Robot designs-2 Wheel robot, 4 Wheel robot, Robot hand, Pick and Place robot, Visual Robots, Python basics (Only for Robotic application), Opencv basics, Color Segmentation, Human detection, Object detection.	
MODULE III	5
Water feeding robot, Fire Fighting Robot, Autonomous Driving car robot, Pick and place robot , Industrial Conveyor robot	
Reference (s)	
1	Thomas R. Kurfess ,“Robotics and Automation Handbook” , CRC PRESS Boca Raton London New York Washington, D.C.
2	Nitin Goyal, Sharad Sharma, Arun Kumar Rana, Suman Lata Tripathi, “ Internet of Things, Robotic and Drone Technology”, First edition, by CRC Press.
3	K C Raveendranathan, “Future directions: IoT, robotics and AI based applications”, Published November 2019 IOP Publishing Ltd 2020, Pages 15-1 to 15-24.





M.KUMARASAMY COLLEGE OF ENGINEERING, KARUR - 639 113

(An Autonomous Institution Affiliated to Anna University, Chennai)

Printed On : 19-11-2022

Students Name List

Designation : Assistant Professor

Faculty Id & Name : 1141047 - Mrs.SASIREKHA P

Department : B.E.(Electrical and Electronics Engineering)

Batch : 2020-2024

Course Code & Name : 18EEX004J - IOT FOR ROBOTICS

Day & Hour : Wednesday & 9

Semester : 5

S.No.	Register No.	Name	Date of Birth	Gender
1.	20BEE4001	20BEE4001 - ABINAYA P	26-09-2002	Female
2.	20BEE4002	20BEE4002 - ABIRAMI S	10-02-2003	Female
3.	20BEE4003	20BEE4003 - ANAND V	28-02-2003	Male
4.	20BEE4004	20BEE4004 - ANEESH P	22-10-2002	Male
5.	20BEE4005	20BEE4005 - BALAKUMAR C	27-02-2003	Male
6.	20BEE4006	20BEE4006 - BHOOPESH T	10-10-2002	Male
7.	20BEE4007	20BEE4007 - DEVANATH B	04-03-2002	Male
8.	20BEE4008	20BEE4008 - DHAMOTHARAN P	19-05-2003	Male
9.	20BEE4009	20BEE4009 - DHAMOTHARAN S M	04-11-2002	Male
10.	20BEE4010	20BEE4010 - DHANABAL R	24-09-2003	Male
11.	20BEE4011	20BEE4011 - DHANUSI B	28-09-2003	Male
12.	20BEE4012	20BEE4012 - DHARINISRI P S	03-06-2001	Female
13.	20BEE4013	20BEE4013 - DHARSHINI R	15-08-2002	Female
14.	20BEE4014	20BEE4014 - DHARUNKUMAR R	01-07-2002	Male
15.	20BEE4015	20BEE4015 - DHARUNISH A P	14-08-2002	Male
16.	20BEE4016	20BEE4016 - DINESH KUMAR V	03-12-2002	Male
17.	20BEE4017	20BEE4017 - GOKUL K	05-01-2003	Male
18.	20BEE4018	20BEE4018 - GOKUL NATH R	16-05-2002	Male
19.	20BEE4019	20BEE4019 - GOKUL V	10-04-2003	Male
20.	20BEE4020	20BEE4020 - GOKULAKANNAN G	21-12-2002	Male
21.	20BEE4021	20BEE4021 - HEMAPRIYA D	24-03-2002	Female
22.	20BEE4022	20BEE4022 - HIRITHIK ROSHAN S	03-09-2002	Male
23.	20BEE4023	20BEE4023 - INDHUMATHI R	23-10-2002	Female
24.	20BEE4024	20BEE4024 - JEEVA M	01-02-2003	Male
25.	20BEE4025	20BEE4025 - KAMALESH R	29-07-2002	Male
26.	20BEE4026	20BEE4026 - KANNAN M	06-01-2003	Male
27.	20BEE4027	20BEE4027 - KARTHIKA P	01-02-2003	Female
28.	20BEE4028	20BEE4028 - KARTHIKEYAN P	10-11-2002	Male
29.	20BEE4029	20BEE4029 - KARTHIKEYAN S	28-03-2003	Male
30.	20BEE4030	20BEE4030 - KATHIRAVAN K S	19-06-2003	Male
31.	20BEE4031	20BEE4031 - KAVIN KUMAR S T	22-08-2002	Male
32.	20BEE4032	20BEE4032 - KAVIN P	02-10-2002	Male
33.	20BEE4033	20BEE4033 - KAVIN P	01-04-2003	Male
34.	20BEE4034	20BEE4034 - KAVINKUMAR S P	01-02-2003	Male



M.KUMARASAMY COLLEGE OF ENGINEERING, KARUR - 639 113

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Students Name List

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Day & Hour : Wednesday & 9

Semester : 5

S.No.	Register No.	Name	Date of Birth	Gender
35.	20BEE4035	20BEE4035 - KAVIYALAKSHMI M	25-10-2002	Female
36.	20BEE4036	20BEE4036 - KEERTHANA K	02-09-2002	Female
37.	20BEE4037	20BEE4037 - KESAVAN K	24-02-2002	Male
38.	20BEE4038	20BEE4038 - KIRUTHIKA N	11-03-2003	Female
39.	20BEE4039	20BEE4039 - KIRUTHIKA P	15-07-2003	Female
40.	20BEE4040	20BEE4040 - KISHOR S	22-11-2002	Male
41.	20BEE4041	20BEE4041 - KOKILAVANAN K	23-05-2003	Male
42.	20BEE4042	20BEE4042 - KOUSSIC A	29-07-2003	Male
43.	20BEE4043	20BEE4043 - LINGESHVAR M	12-01-2003	Male
44.	20BEE4044	20BEE4044 - MADHUMITHA D S	10-05-2003	Female
45.	20BEE4045	20BEE4045 - MADHURAMBIGA S	28-07-2003	Female
46.	20BEE4046	20BEE4046 - MATHIMURUGAN V R	04-10-2002	Male
47.	20BEE4047	20BEE4047 - MOHANLAL N	17-03-2003	Male
48.	20BEE4049	20BEE4049 - MONIKA P	11-05-2003	Female
49.	20BEE4050	20BEE4050 - MONIKA S	28-11-2002	Female
50.	20BEE4051	20BEE4051 - MUTHUKUMAR K	08-10-2002	Male
51.	20BEE4052	20BEE4052 - MYSTICAH A	25-05-2003	Female
52.	20BEE4054	20BEE4054 - NANTHAKUMAR M	06-07-2003	Male
53.	20BEE4301	20BEE4301 - ARUL M	09-03-2003	Male
54.	20BEE4302	20BEE4302 - BARATH S	30-10-2003	Male
55.	20BEE4303	20BEE4303 - BARATHIRAJA B	08-11-2002	Male
56.	20BEE4304	20BEE4304 - DEENADHAYALAN M	10-04-2002	Male
57.	20BEE4305	20BEE4305 - GURUCHARAN G	31-03-2001	Male
58.	20BEE4306	20BEE4306 - IMRAN S	23-08-2002	Male
59.	20BEE4307	20BEE4307 - JEYAKIRAN R	23-05-2002	Male
60.	20BEE4309	20BEE4309 - KARTHICK V	20-11-2001	Male
61.	20BEE4310	20BEE4310 - KARTHIKEYAN B	24-11-2002	Male
62.	20BEE4311	20BEE4311 - KARTHIKEYAN T	07-04-2002	Male
63.	20BEE4312	20BEE4312 - KAVIYARASAN P	10-05-2001	Male
64.	20BEE4314	20BEE4314 - KIRUBAKARAN S	06-02-2001	Male


HEAD OF THE DEPARTMENT
Dept. of Electrical & Electronics Engineering
Kumarasamy College Of Engineering
Karur- 639 113.



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Thalavapalayam, Karur – 639 113.



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Cordially invites you all for One Credit Course

on

“IOT FOR ROBOTICS”

III YEAR – A SECTION



Resource Person

Dr. B. Ezhilavan
Founder & CEO
VEI technologies PVT.LTD,
Chennai.

Venue: APJ Block, EEE Lab-1
Date: 24.11.2022 & 25.11.2022
Timing: 8.40AM – 4.40PM

Dr.K.Ramakrishnan
Secretary

Dr.S.Kuppusamy
Executive Director

Dr.N.Ramesh Babu
Principal

Dr.C.Kumar
HoD/EEE

Mrs.P.Sasirekha
One Credit in-charge



Department of Electrical and Electronics Engineering
Academic Year 2022-2023 / Odd Semester
One Credit Course on "IoT for Robotics"

Year / Sec - III / A

Attendance Record

Time - 8.40 am - 4.40 pm

Date : 24-11-2022 & 25-11-2022

Venue - EEE Lab-1

S.NO	Register No.	Name	24.11.2022 FN	24.11.2022 AN	25.11.2022 FN	25.11.2022 AN
1	20BEE4001	ABINAYA P	P. Abinaya	P. Abinaya	P. Abinaya	P. Abinaya
2	20BEE4002	ABIRAMI S	S. Abirami	S. Abirami	S. Abirami	S. Abirami
3	20BEE4003	ANAND V	V. Anand	V. Anand	V. Anand	V. Anand
4	20BEE4004	ANEESH P	P. Anesh	P. Anesh	P. Anesh	P. Anesh
5	20BEE4005	BALAKUMAR C	C. Balakumar	C. Balakumar	C. Balakumar	C. Balakumar
6	20BEE4006	BHOOPESH T	T. Bhoopesh	T. Bhoopesh	T. Bhoopesh	T. Bhoopesh
7	20BEE4007	DEVANATH B	B. Devanath	B. Devanath	B. Devanath	B. Devanath
8	20BEE4008	DHAMOTHARAN P	P. Dharmotharan	P. Dharmotharan	P. Dharmotharan	P. Dharmotharan
9	20BEE4009	DHAMOTHARAN S M	S.M. Dharmotharan	S.M. Dharmotharan	S.M. Dharmotharan	S.M. Dharmotharan
10	20BEE4010	DHANABAL R	R. Dhannabal	R. Dhannabal	R. Dhannabal	R. Dhannabal
11	20BEE4011	DHANUSH B	B. Dhannush	B. Dhannush	B. Dhannush	B. Dhannush
12	20BEE4012	DHARINISRI P S	S. Dharinisri	S. Dharinisri	S. Dharinisri	S. Dharinisri
13	20BEE4013	DHARSHINI R	R. Dharsini	R. Dharsini	R. Dharsini	R. Dharsini
14	20BEE4014	DHARUNKUMAR R	R. Dharrunkumar	R. Dharrunkumar	R. Dharrunkumar	R. Dharrunkumar
15	20BEE4015	DHARUNISH A P	A.P. Dharrunish	A.P. Dharrunish	A.P. Dharrunish	A.P. Dharrunish
16	20BEE4016	DINESH KUMAR V	V. Dinesh	V. Dinesh	V. Dinesh	V. Dinesh
17	20BEE4017	GOKUL K	K. Gokul	K. Gokul	K. Gokul	K. Gokul
18	20BEE4018	GOKUL NATH R	R. Gokulnath	R. Gokulnath	R. Gokulnath	R. Gokulnath
19	20BEE4019	GOKUL V	V. Gokul	V. Gokul	V. Gokul	V. Gokul
20	20BEE4020	GOKULAKANNAN G	G. Gokulakannan	G. Gokulakannan	G. Gokulakannan	G. Gokulakannan
21	20BEE4021	HEMAPRIYA D	D. Hemapriya	D. Hemapriya	D. Hemapriya	D. Hemapriya
22	20BEE4022	HIRITHIK ROSHAN S	S. Hirithik Roshan	S. Hirithik Roshan	S. Hirithik Roshan	S. Hirithik Roshan
23	20BEE4023	INDHUMATHI R	R. Indhumathi	R. Indhumathi	R. Indhumathi	R. Indhumathi
24	20BEE4024	JEEVA M	M. Jeeva	M. Jeeva	M. Jeeva	M. Jeeva
25	20BEE4025	KAMALESH R	R. Kamalesh	R. Kamalesh	R. Kamalesh	R. Kamalesh
26	20BEE4026	KANNAN M	M. Kannan	M. Kannan	M. Kannan	M. Kannan
27	20BEE4027	KARTHIKA P	P. Kartika	P. Kartika	P. Kartika	P. Kartika
28	20BEE4028	KARTHIKEYAN P	P. Karthikeyan	P. Karthikeyan	P. Karthikeyan	P. Karthikeyan
29	20BEE4029	KARTHIKEYAN S	S. Karthikeyan	S. Karthikeyan	S. Karthikeyan	S. Karthikeyan
30	20BEE4030	KATHIRAVAN K S	S. Kathiravan	S. Kathiravan	S. Kathiravan	S. Kathiravan

31	20BEE4031	KAVIN KUMAR S T	<i>SKavin</i>	<i>SKavin</i>	<i>SKavin</i>	<i>SKavin</i>
32	20BEE4032	KAVIN P	<i>PK</i>	<i>PK</i>	<i>PK</i>	<i>PK</i>
33	20BEE4033	KAVIN P	<i>Kavin</i>	<i>Kavin</i>	<i>Kavin</i>	<i>Kavin</i>
34	20BEE4034	KAVINKUMAR S P	<i>Kavin</i>	<i>Kavin</i>	<i>Kavin</i>	<i>Kavin</i>
35	20BEE4035	KAVIYALAKSHMI M	<i>Kavin</i>	<i>Kavin</i>	<i>Kavin</i>	<i>Kavin</i>
36	20BEE4036	KEERTHANA K				
37	20BEE4037	KESAVAN K	<i>KOV</i>	<i>KOV</i>	<i>KOV</i>	<i>KOV</i>
38	20BEE4038	KIRUTHIKA N	<i>Kiruthika N</i>	<i>Kiruthika N</i>	<i>Kiruthika N</i>	<i>Kiruthika N</i>
39	20BEE4039	KIRUTHIKA P	<i>Kiruthika P</i>	<i>Kiruthika P</i>	<i>Kiruthika P</i>	<i>Kiruthika P</i>
40	20BEE4040	KISHOR S	<i>Sky</i>	<i>Sky</i>	<i>Sky</i>	<i>Sky</i>
41	20BEE4041	KOKILAVANAN K	<i>Kokila</i>	<i>Kokila</i>	<i>Kokila</i>	<i>Kokila</i>
42	20BEE4042	KOUSSIC A	<i>Koussic A</i>	<i>Koussic A</i>	<i>Koussic A</i>	<i>Koussic A</i>
43	20BEE4043	LINGESHVAR M	<i>Lingesh</i>	<i>Lingesh</i>	<i>Lingesh</i>	<i>Lingesh</i>
44	20BEE4044	MADHUMITHA D S	<i>DS.Madh</i>	<i>DS.Madh</i>	<i>DS.Madh</i>	<i>DS.Madh</i>
45	20BEE4045	MADHURAMBIGA S	<i>S.Mad</i>	<i>S.Mad</i>	<i>S.Mad</i>	<i>S.Mad</i>
46	20BEE4046	MATHIMURUGAN V R	<i>VR.Math</i>	<i>VR.Math</i>	<i>VR.Math</i>	<i>VR.Math</i>
47	20BEE4047	MOHANLAL N	<i>N.Lal</i>	<i>N.Lal</i>	<i>N.Lal</i>	<i>N.Lal</i>
48	20BEE4049	MONIKA P	<i>Monika</i>	<i>Monika</i>	<i>Monika</i>	<i>Monika</i>
49	20BEE4050	MONIKA S	<i>S.Monika</i>	<i>S.Monika</i>	<i>S.Monika</i>	<i>S.Monika</i>
50	20BEE4051	MUTHUKUMAR K	<i>K.Muth</i>	<i>K.Muth</i>	<i>K.Muth</i>	<i>K.Muth</i>
51	20BEE4052	MYSTICAH A	<i>A.Mystic</i>	<i>A.Mystic</i>	<i>A.Mystic</i>	<i>A.Mystic</i>
52	20BEE4054	NANTHAKUMAR M	<i>M.Nanth</i>	<i>M.Nanth</i>	<i>M.Nanth</i>	<i>M.Nanth</i>
53	20BEE4301	ARUL M	<i>M.Arul</i>	<i>M.Arul</i>	<i>M.Arul</i>	<i>M.Arul</i>
54	20BEE4302	BARATH S	<i>S.Barath</i>	<i>S.Barath</i>	<i>S.Barath</i>	<i>S.Barath</i>
55	20BEE4303	BARATHIRAJA B	<i>B.Barath</i>	<i>B.Barath</i>	<i>B.Barath</i>	<i>B.Barath</i>
56	20BEE4304	DEENADHAYALAN M	<i>M.Deen</i>	<i>M.Deen</i>	<i>M.Deen</i>	<i>M.Deen</i>
57	20BEE4305	GURUCHARAN G	<i>G.Guru</i>	<i>G.Guru</i>	<i>G.Guru</i>	<i>G.Guru</i>
58	20BEE4306	IMRAN S	<i>S.Imran</i>	<i>S.Imran</i>	<i>S.Imran</i>	<i>S.Imran</i>
59	20BEE4307	JEYAKIRAN R	<i>R.Jey</i>	<i>R.Jey</i>	<i>R.Jey</i>	<i>R.Jey</i>
60	20BEE4309	KARTHICK V	<i>V.Karth</i>	<i>V.Karth</i>	<i>V.Karth</i>	<i>V.Karth</i>
61	20BEE4310	KARTHIKEYAN B	<i>B.Karth</i>	<i>B.Karth</i>	<i>B.Karth</i>	<i>B.Karth</i>
62	20BEE4311	KARTHIKEYAN T	<i>T.Karth</i>	<i>T.Karth</i>	<i>T.Karth</i>	<i>T.Karth</i>
63	20BEE4312	KAVIYARASAN P	<i>P.Kav</i>	<i>P.Kav</i>	<i>P.Kav</i>	<i>P.Kav</i>
64	20BEE4314	KIRUBAKARAN S	<i>S.Kirub</i>	<i>S.Kirub</i>	<i>S.Kirub</i>	<i>S.Kirub</i>

Staff Incharge
Staff Incharge

HOD/EEE
HOD/EEE

LOT For Robotics***

NAME : P. Abiraya

REG No : 20BEE4001

DEPT & SEC : EEE - "A"

Submission Date : 24. 11. 2022

Assignment - 01

10
Dasth

Write an code for interfacing Servomotor with Arduino UNO:

```
#include <Servo.h>
```

```
Servo myservo, myservo1, myservo2, myservo3, myservo4, myservo5;
```

```
int pos = 0
```

```
void setup() {
```

```
  myservo.attach(13);
```

```
  (myservo.write(0));
```

```
  myservo1.attach(12);
```

```
  (myservo1.write(0));
```

```
  myservo2.attach(11);
```

```
  (myservo2.write(0));
```

```
  myservo3.attach(10);
```

```
  (myservo3.write(0));
```

```
  myservo4.attach(9);
```

```
  (myservo4.write(0));
```

```
  myservo5.attach(8);
```

```
  (myservo5.write(0));
```

```
}
```

```
void loop() {
```

```
  delay(2000);
```

```
  myservo5.write(45);
```

```
  delay(5000); }
```

```
myservo1.write(15);
```

```
myservo2.write(15);
```

```
myservo3.write(15);
```

```
}
```

```
delay(5000);
```

```
myservo4.write(90);
```

```
delay(5000);
```

```
myservo.write(70);
```

```
delay(5000);
```

```
{
```

```
myservo1.write(0);
```

```
myservo2.write(0);
```

```
myservo3.write(0);
```

```
}
```

```
delay(5000);
```

```
myservo5.write(50);
```

```
delay(5000);
```

```
{
```

```
myservo1.write(15);
```

```
myservo2.write(15);
```

```
myservo3.write(15);
```

```
}
```

```
delay(5000);
```

```
myservo4.write(90);
```

```
delay(5000);
```

```
myservo.write(70);
```



```
delay(5000);
```

```
{
```

```
  myServo1.write(0);
```

```
  myServo2.write(0);
```

```
  myServo3.write(0);
```

```
}
```

```
delay(5000);
```

```
}
```



IOT FOR ROBOTICS ASSIGNMENT - 1

NAME : B. DEVANATH

REG. NO : 20BEE4007

SECTION : A

DEPARTMENT : ELECTRICAL & ELECTRONICS ENGINEERING.

SUBMISSION : 24.11.2022
DATE

(10)

Gaslek

ABIRAMI.S

EEE -A

IOT ASSIGNMENT - II

26.11.2022.

(10)

Passed

TOT FOR ROBOTICS

Name : Keerthana.K

Reg.No : 20BEE4036

Dept&Sec : EEE-A

Submission date : 25.11.2022

Assignment No: 02

9

Gasika



M.KUMARASAMY
COLLEGE OF ENGINEERING
NAAC Accredited Autonomous Institution
Approved by AICTE & Affiliated to Anna University
ISO 9001:2015 & ISO 14001:2015 Certified Institution
Thalavapalayam, Karur - 639 113.

Register Number:

B.E/B.TECH – ASSESSMENT 1

III YEAR / V Semester

18EEX004J – IOT FOR ROBOTICS

(ELECTRICAL AND ELECTRONICS ENGINEERING)

Date & Time: 25.11.2022 & 3.30 pm to 4.30 pm


Maximum: 40 Marks

Part A – (20 x 2 = 40 marks)

Answer All Questions

1.	CO1	List the benefits of robotics Systems?	K1
2.	CO1	Why DC motors are preferable in robotics?	K2
3.	CO1	How to control dc motors in robotic? And write that IC name.	K2
4.	CO1	What is relay? Write some of its applications.	K1
5.	CO1	Illustrate serial communication.	K2
6.	CO1	What is baud rate? Write baud rate value of India mobile communication.	K1
7.	CO1	What do you know about the EEPROM?	K1
8.	CO1	What is Arduino? And operating voltage atmega328?	K1
9.	CO1	Why we should use Arduino?	K1
10.	CO1	Define RPM?	K1
11.	CO2	In which language Arduino software was written?	K1
12.	CO2	What are the software structure functions?	K1
13.	CO2	What Do You Mean By Open-source Hardware?	K2
14.	CO2	What is the flash-memory size of atmega328?	K1
15.	CO2	Write 3 wireless communication devices for robotics.	K1
16.	CO2	How many Analog Input Pins available in Atmega328?	K1
17.	CO2	What is maximum Clock Speed of atmega328?	K2
18.	CO2	How many digital I/O pin available in Arduino?	K1
19.	CO2	Give two examples for analog sensor and digital sensor?	K1
20.	CO2	What is the use of compilers?	K2


Faculty in charge


HOD/EEE
HEAD OF THE DEPARTMENT
Dept. of Electrical & Electronics Engg.
M.Kumarasamy College Of Engineering
Karur-639 113.



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ISO 9001:2015 & ISO 14001:2015 Certified Institution
AICTE Approval No. 732-53-004(NDGE) / 97 dt. 22.10.1999



Name of the Exam : _____

Reg.No. / Roll No.	20BEE4013	BRANCH / SECTION	EEE A
--------------------	-----------	------------------	-------

Name of the Student	R. DHARSHINI
Degree	B.E. <input checked="" type="checkbox"/> B.Tech. <input type="checkbox"/> M.E. <input type="checkbox"/> M.B.A. <input type="checkbox"/> M.C.A. <input type="checkbox"/>
Year / Semester	III rd Year / V th Semester
Subject Code / Title	18EEEX004J - IOT ROBOTICS
Date / Session	25-11-2022
No. of Pages used	6

AT START	AT FINISH
Signature of the Invigilator with date	
P. Sasirekha	
Name of the Invigilator	

INSTRUCTIONS TO THE CANDIDATES :

1. Write your Roll/Register number at the top right hand side of the QUESTION PAPER.
2. Use both sides of the paper for answering questions.
3. POSSESSION OF ANY INCRIMINATING MATERIAL AND MALPRACTICE OF ANY NATURE SHALL BE PUNISHABLE AS PER RULES.
4. Answer must be legibly written in blue / black pen.

PART A		PART B						GRAND TOTAL (IN WORDS)
Question. No.	MARKS	Question. No.	MARKS			TOTAL		
			i	ii	iii			
1		11	a				Three Seven	
2			b					
3		12	a					
4			b					
5		13	a					
6			b					
7		14	a					
8			b					
9		15	a					
10			b					
TOTAL							37	
							GRAND TOTAL	

Date	28/11/22	Name of the Examiner	P. Sasirekha	Signature of the Examiner	
------	----------	----------------------	--------------	---------------------------	--



M.Kumarasamy College of Engineering

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ISO 9001:2015 Certified Institution

Thalavapalayam, Karur, Tamilnadu.



Name of the Exam : _____

Reg.No. / Roll No.	2	0	B	E	E	4	0	2	1			
--------------------	---	---	---	---	---	---	---	---	---	--	--	--

Name of the Student	HEMADRIYA . D
Branch / Semester	EEE / V
Subject Code / Title	18EEEX004J - IOT FOR ROBOTICS
Date / Session	25.11.2022
No. of Pages used	8

AT START	AT FINISH
Signature of the Invigilator with date	
P. Sasi sekha	
Name of the Invigilator	

INSTRUCTIONS TO THE CANDIDATES :

- ANSWERS FOR PART - A MUST BE WRITTEN PAGES FROM 2 - 6. ANSWERS FOR PART - B MUST BE WRITTEN FROM PAGE 7 ONWARDS.
- Write your Roll/Register number at the top right hand side of the QUESTION PAPER.
- Use both sides of the paper for answering questions.
- The answer book contains sufficient page and no additional sheets will be given.
- POSSESSION OF ANY INCRIMINATING MATERIAL AND MALPRACTICE OF ANY NATURE SHALL BE PUNISHABLE AS PER RULES.
- Answer must be legibly written in ink pen (blue / black).

PART A		PART B					GRAND TOTAL (IN WORDS)
Question. No.	MARKS	Question. No.	MARKS			TOTAL	
			i	ii	iii		
1		11	a				Three Eight
2			b				
3		12	a				
4			b				
5		13	a				
6			b				
7		14	a				
8			b				
9		15	a				
10			b				
TOTAL							38

Date	22/11/22	Name of the Examiner	P. Sasi sekha	Signature of the Examiner	
------	----------	----------------------	---------------	---------------------------	--



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AICTE Approval No. 732-53-004(NDGE) / 97 dt. 22.10.1999



Name of the Exam : _____

Reg.No. / Roll No.	20BEE4027	BRANCH / SECTION	EEE A
--------------------	-----------	------------------	-------

Name of the Student	P. KARTHIKA
Degree	B.E. <input checked="" type="checkbox"/> B.Tech. <input type="checkbox"/> M.E. <input type="checkbox"/> M.B.A. <input type="checkbox"/> M.C.A. <input type="checkbox"/>
Year / Semester	III / V
Subject Code / Title	18EEEX004J - IOT FOR ROBOTICS
Date / Session	25.11.2022
No. of Pages used	8

AT START	AT FINISH
Signature of the Invigilator with date	
P. Sasiukha	
Name of the Invigilator	

INSTRUCTIONS TO THE CANDIDATES :

1. Write your Roll/Register number at the top right hand side of the QUESTION PAPER.
2. Use both sides of the paper for answering questions.
3. POSSESSION OF ANY INCRIMINATING MATERIAL AND MALPRACTICE OF ANY NATURE SHALL BE PUNISHABLE AS PER RULES.
4. Answer must be legibly written in blue / black pen.

PART A		PART B					GRAND TOTAL (IN WORDS)	
Question. No.	MARKS	Question. No.	MARKS			TOTAL		
			i	ii	iii			
1		11	a				Three Seven	
2			b					
3		12	a					
4			b					
5		13	a					
6			b					
7		14	a					
8			b					
9		15	a					37
10			b					
TOTAL								

Date	28/11/22	Name of the Examiner	P. Sasiukha	Signature of the Examiner	
------	----------	----------------------	-------------	---------------------------	--



M.KUMARASAMY COLLEGE OF ENGINEERING, KARUR - 639 113

(An Autonomous Institution Affiliated to Anna University, Chennai)

COE

Mark Analysis Report

Course Information : 18EEX004J-IOT FOR ROBOTICS

Department : B.E.(Electrical and Electronics Engineering)

Section : A

Facility Name : Assessment / Report / Case Study

Faculty Name : Mrs.SASIREKHA P

Printed On : 02-01-2023

Batch : 2020-2024

Semester : 5

Test Name : Assessment / Report / Case Study

Exam Date : -

S.No.	Register No. & Name	Date of Birth	Marks (Max. of 30)
1.	20BEE4001-ABINAYA P	26-09-2002	30
2.	20BEE4002-ABIRAMI S	10-02-2003	30
3.	20BEE4003-ANAND V	28-02-2003	27
4.	20BEE4004-ANEESH P	22-10-2002	27
5.	20BEE4005-BALAKUMAR C	27-02-2003	29
6.	20BEE4006-BHOOPESH T	10-10-2002	25
7.	20BEE4007-DEVANATH B	04-03-2002	30
8.	20BEE4008-DHAMOTHARAN P	19-05-2003	27
9.	20BEE4009-DHAMOTHARAN S M	04-11-2002	27
10.	20BEE4010-DHANABAL R	24-09-2003	28
11.	20BEE4011-DHANUSH B	28-09-2003	30
12.	20BEE4012-DHARINISRI P S	03-06-2001	28
13.	20BEE4013-DHARSHINI R	15-08-2002	27
14.	20BEE4014-DHARUNKUMAR R	01-07-2002	28
15.	20BEE4015-DHARUNISH A P	14-08-2002	30
16.	20BEE4016-DINESH KUMAR V	03-12-2002	28
17.	20BEE4017-GOKUL K	05-01-2003	28
18.	20BEE4018-GOKUL NATH R	16-05-2002	28
19.	20BEE4019-GOKUL V	10-04-2003	29
20.	20BEE4020-GOKULAKANNAN G	21-12-2002	27
21.	20BEE4021-HEMAPRIYA D	24-03-2002	30
22.	20BEE4022-HIRITHIK ROSHAN S	03-09-2002	28
23.	20BEE4023-INDHUMATHI R	23-10-2002	28
24.	20BEE4024-JEEVA M	01-02-2003	27
25.	20BEE4025-KAMALESH R	29-07-2002	30
26.	20BEE4026-KANNAN M	06-01-2003	27
27.	20BEE4027-KARTHIKA P	01-02-2003	30
28.	20BEE4028-KARTHIKEYAN P	10-11-2002	27
29.	20BEE4029-KARTHIKEYAN S	28-03-2003	27
30.	20BEE4030-KATHIRAVAN K S	19-06-2003	27
31.	20BEE4031-KAVIN KUMAR S T	22-08-2002	26
32.	20BEE4032-KAVIN P	02-10-2002	27

S.No.	Register No. & Name	Date of Birth	Marks (Max. of 30)
33.	20BEE4033-KAVIN P	01-04-2003	28
34.	20BEE4034-KAVINKUMAR S P	01-02-2003	30
35.	20BEE4035-KAVIYALAKSHMI M	25-10-2002	30
36.	20BEE4036-KEERTHANA K	02-09-2002	29
37.	20BEE4037-KESAVAN K	24-02-2002	27
38.	20BEE4038-KIRUTHIKA N	11-03-2003	27
39.	20BEE4039-KIRUTHIKA P	15-07-2003	27
40.	20BEE4040-KISHOR S	22-11-2002	27
41.	20BEE4041-KOKILAVANAN K	23-05-2003	25
42.	20BEE4042-KOUSSIC A	29-07-2003	27
43.	20BEE4043-LINGESHVAR M	12-01-2003	27
44.	20BEE4044-MADHUMITHA D S	10-05-2003	29
45.	20BEE4045-MADHURAMBIGA S	28-07-2003	30
46.	20BEE4046-MATHIMURUGAN V R	04-10-2002	27
47.	20BEE4047-MOHANLAL N	17-03-2003	26
48.	20BEE4049-MONIKA P	11-05-2003	28
49.	20BEE4050-MONIKA S	28-11-2002	30
50.	20BEE4051-MUTHUKUMAR K	08-10-2002	28
51.	20BEE4052-MYSTICAH A	25-05-2003	30
52.	20BEE4054-NANTHAKUMAR M	06-07-2003	28
53.	20BEE4301-ARUL M	09-03-2003	30
54.	20BEE4302-BARATH S	30-10-2003	29
55.	20BEE4303-BARATHIRAJA B	08-11-2002	29
56.	20BEE4304-DEENADHAYALAN M	10-04-2002	27
57.	20BEE4305-GURUCHARAN G	31-03-2001	26
58.	20BEE4306-IMRAN S	23-08-2002	26
59.	20BEE4307-JEYAKIRAN R	23-05-2002	25
60.	20BEE4309-KARTHICK V	20-11-2001	25
61.	20BEE4310-KARTHIKEYAN B	24-11-2002	27
62.	20BEE4311-KARTHIKEYAN T	07-04-2002	27
63.	20BEE4312-KAVIYARASAN P	31-03-2000	25
64.	20BEE4314-KIRUBAKARAN S	06-02-2001	28

Range Analysis

Range	No. of Students	Range	No. of Students	Average Mark.		
20-29	50	30-39	14	: 27.83	No. of Present	: 64
					No. of Absentee	: 0
					No. of Pass	: 64
					No. of Fail	: 0
					Total Strength	: 64
					Pass %	: 100.00

Signature of the Faculty

Class Advisor

Head of the Department



M.KUMARASAMY COLLEGE OF ENGINEERING, KARUR - 639 113

(An Autonomous Institution Affiliated to Anna University, Chennai)

Mark Analysis Report

COE

Course Information : 18EEX004J-IOT FOR ROBOTICS

Department : B.E.(Electrical and Electronics Engineering)

Section : A

Facility Name : Examination / Presentation

Faculty Name : Mrs.SASIREKHA P

Printed On : 02-01-2023

Batch : 2020-2024

Semester : 5

Test Name : Examination / Presentation

Exam Date : -

S.No.	Register No. & Name	Date of Birth	Marks (Max. of 50)
1.	20BEE4001-ABINAYA P	26-09-2002	50
2	20BEE4002-ABIRAMI S	10-02-2003	50
3.	20BEE4003-ANAND V	28-02-2003	45
4.	20BEE4004-ANEESH P	22-10-2002	46
5.	20BEE4005-BALAKUMAR C	27-02-2003	46
6.	20BEE4006-BHOOPESH T	10-10-2002	40
7.	20BEE4007-DEVANATH B	04-03-2002	48
8.	20BEE4008-DHAMOTHARAN P	19-05-2003	46
9.	20BEE4009-DHAMOTHARAN S M	04-11-2002	47
10.	20BEE4010-DHANABAL R	24-09-2003	47
11.	20BEE4011-DHANISH R	28-09-2003	47
12.	20BEE4012-DHARINISRI P S	03-06-2001	47
13.	20BEE4013-DHARSHINI R	15-08-2002	49
14.	20BEE4014-DHARUNKUMAR R	01-07-2002	49
15.	20BEE4015-DHARUNISH A P	14-08-2002	50
16.	20BEE4016-DINESH KUMAR V	03-12-2002	49
17.	20BEE4017-GOKUL K	05-01-2003	47
18.	20BEE4018-GOKUL NATH R	16-05-2002	46
19.	20BEE4019-GOKUL V	10-04-2003	43
20.	20BEE4020-GOKULAKANNAN G	21-12-2002	48
21.	20BEE4021-HEMAPRIYA D	24-03-2002	50
22.	20BEE4022-HIRITHIK ROSHAN S	03-09-2002	48
23.	20BEE4023-INDHUMATHI R	23-10-2002	49
24.	20BEE4024-JEEVA M	01-02-2003	47
25.	20BEE4025-KAMALESH R	29-07-2002	49
26.	20BEE4026-KANNAN M	06-01-2003	48
27.	20BEE4027-KARTHIKA P	01-02-2003	48
28.	20BEE4028-KARTHIKEYAN P	10-11-2002	47
29.	20BEE4029-KARTHIKEYAN S	28-03-2003	47
30.	20BEE4030-KATHIRAVAN K S	19-06-2003	46
31.	20BEE4031-KAVIN KUMAR S T	22-08-2002	47
32.	20BEE4032-KAVIN P	02-10-2002	47

S.No.	Register No. & Name	Date of Birth	Marks (Max. of 50)
33.	20BEE4033-KAVIN P	01-04-2003	47
34.	20BEE4034-KAVINKUMAR S P	01-02-2003	47
35.	20BEE4035-KAVIYALAKSHMI M	25-10-2002	48
36.	20BEE4036-KEERTHANA K	02-09-2002	47
37.	20BEE4037-KESAVAN K	24-02-2002	47
38.	20BEE4038-KIRUTHIKA N	11-03-2003	47
39.	20BEE4039-KIRUTHIKA P	15-07-2003	47
40.	20BEE4040-KISHOR S	22-11-2002	46
41.	20BEE4041-KOKILAVANAN K	23-05-2003	40
42.	20BEE4042-KOUSSIC A	29-07-2003	47
43.	20BEE4043-LINGESHVAR M	12-01-2003	46
44.	20BEE4044-MADHUMITHA D S	10-05-2003	47
45.	20BEE4045-MADHURAMBIGA S	28-07-2003	48
46.	20BEE4046-MATHIMURUGAN V R	04-10-2002	48
47.	20BEE4047-MOHANLAL N	17-03-2003	47
48.	20BEE4049-MONIKA P	11-05-2003	49
49.	20BEE4050-MONIKA S	28-11-2002	49
50.	20BEE4051-MUTHUKUMAR K	08-10-2002	45
51.	20BEE4052-MYSTICAH A	25-05-2003	48
52.	20BEE4054-NANTHAKUMAR M	06-07-2003	49
53.	20BEE4301-ARUL M	09-03-2003	48
54.	20BEE4302-BARATH S	30-10-2003	48
55.	20BEE4303-BARATHIRAJA B	08-11-2002	48
56.	20BEE4304-DEENADHAYALAN M	10-04-2002	48
57.	20BEE4305-GURUCHARAN G	31-03-2001	46
58.	20BEE4306-IMRAN S	23-08-2002	45
59.	20BEE4307-JEYAKIRAN R	23-05-2002	43
60.	20BEE4309-KARTHICK V	20-11-2001	40
61.	20BEE4310-KARTHIKEYAN B	24-11-2002	47
62.	20BEE4311-KARTHIKEYAN T	07-04-2002	47
63.	20BEE4312-KAVIYARASAN P	31-03-2000	45
64.	20BEE4314-KIRUBAKARAN S	06-02-2001	47

Range Analysis

Range	No. of Students	Range	No. of Students
40-44	5	45-49	55
50-54	4		

Average Mark.	: 46.94	No. of Absentee	: 0
No. of Present	: 64	No. of Fail	: 0
No. of Pass	: 64	Pass %	: 100.00
Total Strength	: 64		


Signature of the Faculty


Class Advisor


Head of the Department



M.KUMARASAMY COLLEGE OF ENGINEERING, KARUR - 639 113

(An Autonomous Institution Affiliated to Anna University, Chennai)

Mark Analysis Report

COE

Course Information : 18EEX004J-IOT FOR ROBOTICS
 Department : B.E.(Electrical and Electronics Engineering)
 Section : A
 Facility Name : Viva Voce
 Faculty Name : Mrs.SASIREKHA P

Printed On : 02-01-2023
 Batch : 2020-2024
 Semester : 5
 Test Name : Viva Voce
 Exam Date : -

S.No.	Register No. & Name	Date of Birth	Marks (Max. of 20)
1.	20BEE4001-ABINAYA P	26-09-2002	18
2.	20BEE4002-ABIRAMI S	10-02-2003	18
3.	20BEE4003-ANAND V	28-02-2003	20
4.	20BEE4004-ANEESH P	22-10-2002	17
5.	20BEE4005-BALAKUMAR C	27-02-2003	16
6.	20BEE4006-BHOOPESH T	10-10-2002	15
7.	20BEE4007-DEVANATH B	04-03-2002	18
8.	20BEE4008-DHAMOTHRAN P	19-05-2003	17
9.	20BEE4009-DHAMOTHRAN S M	04-11-2002	18
10.	20BEE4010-DHANABAL R	24-09-2003	18
11.	20BEE4011-DHANUSH B	28-09-2003	18
12.	20BEE4012-DHARINISRI P S	03-06-2001	17
13.	20BEE4013-DHARSHINI K	15-08-2002	17
14.	20BEE4014-DHARUNKUMAR R	01-07-2002	18
15.	20BEE4015-DHARUNISH A P	14-08-2002	18
16.	20BEE4016-DINESH KUMAR V	03-12-2002	17
17.	20BEE4017-GOKUL K	05-01-2003	17
18.	20BEE4018-GOKUL NATH R	16-05-2002	17
19.	20BEE4019-GOKUL V	10-04-2003	18
20.	20BEE4020-GOKULAKANNAN G	21-12-2002	18
21.	20BEE4021-HEMAPRIYA D	24-03-2002	18
22.	20BEE4022-HIRITHIK ROSHAN S	03-09-2002	17
23.	20BEE4023-INDHUMATHI R	23-10-2002	17
24.	20BEE4024-JEEVA M	01-02-2003	17
25.	20BEE4025-KAMALESH R	29-07-2002	19
26.	20BEE4026-KANNAN M	06-01-2003	17
27.	20BEE4027-KARTHIKA P	01-02-2003	18
28.	20BEE4028-KARTHIKEYAN P	10-11-2002	17
29.	20BEE4029-KARTHIKEYAN S	28-03-2003	17
30.	20BEE4030-KATHIRAVAN K S	19-06-2003	17
31.	20BEE4031-KAVIN KUMAR S T	22-08-2002	17
32.	20BEE4032-KAVIN P	02-10-2002	18

S.No.	Register No. & Name	Date of Birth	Marks (Max. of 20)
33.	20BEE4033-KAVIN P	01-04-2003	17
34.	20BEE4034-KAVINKUMAR S P	01-02-2003	18
35.	20BEE4035-KAVIYALAKSHMI M	25-10-2002	19
36.	20BEE4036-KEERTHANA K	02-09-2002	18
37.	20BEE4037-KESAVAN K	24-02-2002	17
38.	20BEE4038-KIRUTHIKA N	11-03-2003	17
39.	20BEE4039-KIRUTHIKA P	15-07-2003	18
40.	20BEE4040-KISHOR S	22-11-2002	17
41.	20BEE4041-KOKILAVANAN K	23-05-2003	15
42.	20BEE4042-KOUSSIC A	29-07-2003	17
43.	20BEE4043-LINGESHVAR M	12-01-2003	17
44.	20BEE4044-MADHUMITHA D S	10-05-2003	17
45.	20BEE4045-MADHURAMBIGA S	28-07-2003	18
46.	20BEE4046-MATHIMURUGAN V R	04-10-2002	18
47.	20BEE4047-MOHANLAL N	17-03-2003	17
48.	20BEE4049-MONIKA P	11-05-2003	18
49.	20BEE4050-MONIKA S	28-11-2002	18
50.	20BEE4051-MUTHUKUMAR K	08-10-2002	17
51.	20BEE4052-MYSTICAH A	25-05-2003	18
52.	20BEE4054-NANTHAKUMAR M	06-07-2003	18
53.	20BEE4301-ARUL M	09-03-2003	17
54.	20BEE4302-BARATH S	30-10-2003	18
55.	20BEE4303-BARATHIRAJA B	08-11-2002	18
56.	20BEE4304-DEENADHAYALAN M	10-04-2002	17
57.	20BEE4305-GURUCHARAN G	31-03-2001	15
58.	20BEE4306-IMRAN S	23-08-2002	17
59.	20BEE4307-JEYAKIRAN R	23-05-2002	15
60.	20BEE4309-KARTHICK V	20-11-2001	15
61.	20BEE4310-KARTHIKEYAN B	24-11-2002	16
62.	20BEE4311-KARTHIKEYAN T	07-04-2002	16
63.	20BEE4312-KAVIYARASAN P	31-03-2000	17
64.	20BEE4314-KIRUBAKARAN S	06-02-2001	15

Range Analysis

Range	No. of Students	Range	No. of Students
10-19	63	20-29	1

Average Mark.	: 17.25	No. of Absentee	: 0
No. of Present	: 64	No. of Fail	: 0
No. of Pass	: 64	Pass %	: 100.00
Total Strength	: 64		

Signature of the Faculty

Class Advisor

Head of the Department



M.KUMARASAMY COLLEGE OF ENGINEERING, KARUR - 639 113

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COE

Course Consolidated Internal Marks

Department : B.E.(Electrical and Electronics Engineering)

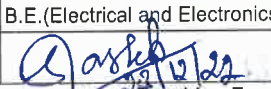
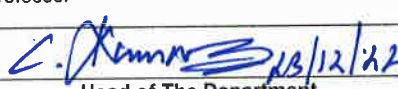
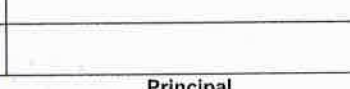
Semester : 5

Course Code & Name : 18EEX004J - IOT FOR ROBOTICS

Batch : 2020-2024

Section : A

S.No.	Reg. No.	Name	Internal Marks(Max. 100 Marks)	Internal Marks(In Words)
1	20BEE4001	ABINAYA P	98	NINE EIGHT
2	20BEE4002	ABIRAMI S	98	NINE EIGHT
3	20BEE4003	ANAND V	92	NINE TWO
4	20BEE4004	ANEESH P	90	NINE ZERO
5	20BEE4005	BALAKUMAR C	91	NINE ONE
6	20BEE4006	BHOOPESH T	80	EIGHT ZERO
7	20BEE4007	DEVANATH B	96	NINE SIX
8	20BEE4008	DHAMOTHARAN P	90	NINE ZERO
9	20BEE4009	DHAMOTHARAN S M	92	NINE TWO
10	20BEE4010	DHANABAL R	93	NINE THREE
11	20BEE4011	DHANUSH B	95	NINE FIVE
12	20BEE4012	DHARINISRI P S	92	NINE TWO
13	20BEE4013	DHARSHINI R	93	NINE THREE
14	20BEE4014	DHARUNKUMAR R	95	NINE FIVE
15	20BEE4015	DHARUNISH A P	98	NINE EIGHT
16	20BEE4016	DINESH KUMAR V	94	NINE FOUR
17	20BEE4017	GOKUL K	92	NINE TWO
18	20BEE4018	GOKUL NATH R	91	NINE ONE
19	20BEE4019	GOKUL V	90	NINE ZERO
20	20BEE4020	GOKULAKANNAN G	93	NINE THREE
21	20BEE4021	HEMAPRIYA D	98	NINE EIGHT
22	20BEE4022	HIRITHIK ROSHAN S	93	NINE THREE
23	20BEE4023	INDHUMATHI R	94	NINE FOUR
24	20BEE4024	JEEVA M	91	NINE ONE
25	20BEE4025	KAMALESH R	98	NINE EIGHT
26	20BEE4026	KANNAN M	92	NINE TWO
27	20BEE4027	KARTHIKA P	96	NINE SIX
28	20BEE4028	KARTHIKEYAN P	91	NINE ONE
29	20BEE4029	KARTHIKEYAN S	91	NINE ONE
30	20BEE4030	KATHIRAVAN K S	90	NINE ZERO

Name	Mrs. SASIREKHA P Assistant Professor B.E.(Electrical and Electronics Engineering)	Dr. KUMAR C Professor	
Signature with Date	 Teaching Faculty	 Head of The Department	 Principal



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COE

Course Consolidated Internal Marks

Department : B.E.(Electrical and Electronics Engineering)

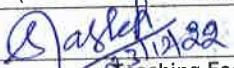


Semester : 5

Course Code & Name : 18EEX004J - IOT FOR ROBOTICS

Batch : 2020-2024

Section : A

S.No.	Reg. No.	Name	Internal Marks(Max. 100 Marks)	Internal Marks(In Words)
31	20BEE4031	KAVIN KUMAR S T	90	NINE ZERO
32	20BEE4032	KAVIN P	92	NINE TWO
33	20BEE4033	KAVIN P	92	NINE TWO
34	20BEE4034	KAVINKUMAR S P	95	NINE FIVE
35	20BEE4035	KAVIYALAKSHMI M	97	NINE SEVEN
36	20BEE4036	KEERTHANA K	94	NINE FOUR
37	20BEE4037	KESAVAN K	91	NINE ONE
38	20BEE4038	KIRUTHIKA N	91	NINE ONE
39	20BEE4039	KIRUTHIKA P	92	NINE TWO
40	20BEE4040	KISHOR S	90	NINE ZERO
41	20BEE4041	KOKILAVANAN K	80	EIGHT ZERO
42	20BEE4042	KOUSSIC A	91	NINE ONE
43	20BEE4043	LINGESHVAR M	90	NINE ZERO
44	20BEE4044	MADHUMITHA D S	93	NINE THREE
45	20BEE4045	MADHURAMBIGA S	96	NINE SIX
46	20BEE4046	MATHIMURUGAN V R	93	NINE THREE
47	20BEE4047	MOHANLAL N	90	NINE ZERO
48	20BEE4049	MONIKA P	95	NINE FIVE
49	20BEE4050	MONIKA S	97	NINE SEVEN
50	20BEE4051	MUTHUKUMAR K	90	NINE ZERO
51	20BEE4052	MYSTICAH A	96	NINE SIX
52	20BEE4054	NANTHAKUMAR M	95	NINE FIVE
53	20BEE4301	ARUL M	95	NINE FIVE
54	20BEE4302	BARATH S	95	NINE FIVE
55	20BEE4303	BARATHIRAJA B	95	NINE FIVE
56	20BEE4304	DEENADHAYALAN M	92	NINE TWO
57	20BEE4305	GURUCHARAN G	87	EIGHT SEVEN
58	20BEE4306	IMRAN S	88	EIGHT EIGHT
59	20BEE4307	JEYAKIRAN R	83	EIGHT THREE
60	20BEE4309	KARTHICK V	80	EIGHT ZERO

Name	Mrs. SASIREKHA P Assistant Professor B.E.(Electrical and Electronics Engineering)	Dr. KUMAR C Professor	
Signature with Date	 Teaching Faculty	 Head of The Department	 Principal



M.KUMARASAMY COLLEGE OF ENGINEERING, KARUR - 639 113

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Approved by AICTE New Delhi, Accredited by NAAC

COE

Course Consolidated Internal Marks

Department : B.E.(Electrical and Electronics Engineering)

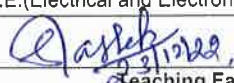
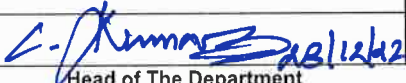
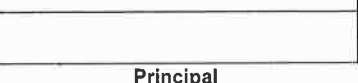
Semester : 5

Batch : 2020-2024

Section : A

Course Code & Name : 18EEX004J - IOT FOR ROBOTICS

S.No.	Reg. No.	Name	Internal Marks(Max. 100 Marks)	Internal Marks(In Words)
61	20BEE4310	KARTHIKEYAN B	90	NINE ZERO
62	20BEE4311	KARTHIKEYAN T	90	NINE ZERO
63	20BEE4312	KAVIYARASAN P	87	EIGHT SEVEN
64	20BEE4314	KIRUBAKARAN S	90	NINE ZERO

Name	Mrs. SASIREKHA P Assistant Professor B.E.(Electrical and Electronics Engineering)	Dr. KUMAR C Professor	
Signature with Date	 Teaching Faculty	 Head of The Department	 Principal



EMPLOYERS FEEDBACK ON CURRICULUM

Dear Employers,

As industry is the ultimate customer of engineering graduates, its satisfaction about standards and content of **M.Kumarasamy College of Engineering** products is important. We always maintain a continuous dialogue accordingly. As the ultimate beneficiary of our quality product your support and feedback will help us to maintain the required standards of education. Here are some of the points to facilitate you in giving feedback about our students. You are requested to give marks in the box provided against each item as per the following norms.

Excellent (5)	Very Good (4)	Good (3)	Average (2)	Poor (1)
---------------	---------------	----------	-------------	----------

Name of the Company : VEI Technologies PVT.LTD, Chennai

Name of the evaluating person with Designation: B. EZHILAVAN

About M.Kumarasamy College of Engineering Products already employed:

S No	Questionarie	Excellent	Very good	Good	Average	Poor
1	Content and coverage of curriculum					
2	Adequacy of core courses in the curriculum					
3	Adequacy of elective courses in the curriculum					
4	Inclusion of practical content in the curriculum					
5	Knowledge about recent tools and their usage					
6	Developing practical solutions to work place problems					
7	Self-motivated and taking on appropriate level of responsibility					
8	Technical knowledge/skill ability to manage/leadership innovativeness					
9	Ability to contribute to the goal of the organization and relationship with seniors/peers/subordinates					
10	Obligation to work beyond schedule if required					

Date: 25/11/22

B. Ezhilavan
Signature of the Employer



M.KUMARASAMY
COLLEGE OF ENGINEERING
Approved by AICTE & Affiliated to Anna University
ISO 9001:2015 & ISO 14001:2015 Certified Institution
Thalavapalayam, Karur - 639 113.



**INSTITUTION'S
INNOVATION
COUNCIL**
(Ministry of Education Initiative)



MKCE IIC, IEDC & E-CELL

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Circular

MKCE/IIC/IEDC/E-CELL/2022-23/EEE

Date: 14.11.2022

The Two day Session on “Innovative Ideas on Robotics for Industrial Applications Using IoT” to be delivered by Dr.B.Ezhilavan, Founder & CEO,VEI technologies PVT.LTD, Chennai on 24th & 25th November 2022 from 9.00 AM to 4.00PM.

All the Department IIC/IEDC/E-CELL Student members and Faculty Coordinators are hereby informed to attend this program on 24th November 2022 from 9.00 AM without fail.

Venue: APJ Block, EEE Lab-1.


Programme
Coordinator


HOD/EEE

HEAD OF THE DEPARTMENT
Dept.of Electrical & Electronics Engg
M.Kumarasamy College Of Engineering
Karur- 639 113.



M.KUMARASAMY
COLLEGE OF ENGINEERING

NAAC Accredited Autonomous Institution

Approved by AICTE & Affiliated to Anna University

ISO 9001:2015 & ISO 14001:2015 Certified Institution

Thalavapalayam, Karur - 639 113.



**INSTITUTION'S
INNOVATION
COUNCIL**

(Ministry of Education Initiative)



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

Cordially invites you all for

**“INNOVATIVE IDEAS ON
ROBOTICS USING IOT”**

*in collaboration with **Institution's Innovation
Council***



Resource Person

Dr. B. Ezhilavan
Founder & CEO
VEI technologies
PVT. LTD, Chennai.

Venue: APJ Block, EEE Lab-1

Date: 24.11.2022 & 25.11.2022

Timing: 8.40AM - 4.40PM

Dr. K. Ramakrishnan
Secretary

Dr. S. Kuppusamy
Executive Director

Dr. N. Ramesh Babu
Principal

Dr. C. Kumar
HoD/EEE

Mrs. P. Sasirekha
IIC Dept Coordinator



M.KUMARASAMY
COLLEGE OF ENGINEERING
NAAC Accredited Autonomous Institution
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ISO 9001:2015 & ISO 14001:2015 Certified Institution
Thalavapalayam, Karur - 639 113.



**INSTITUTION'S
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(Ministry of Education Initiative)



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

The Two day Session on “Innovative Ideas on Robotics for Industrial Applications Using IoT”

Date: 24th & 25th November 2022

Time : 9.00AM - 4.00PM

Venue : APJ Block, EEE Lab-1

Report

The Department of Electrical and Electronics Engineering of M.Kumarasamy College of Engineering, Karur organized Session on “Innovative Ideas on Robotics for Industrial Applications Using IoT” at the institute campus on 24.11.2022 and 25.11.2022.

Dr.N.Ramesh Babu, Principal, M.Kumarasamy College of Engineering, addressed the participants to utilize this wonderful opportunity to sharing knowledge about IoT technologies in Robotics application and asked to students and faculties to enhance their skills and ideas related with IoT. Dr. C. Kumar, Head/Professor, EEE, informed the participants to motivate yourself to share Innovative ideas abouts Robotics with help of IoT. Dr.B.Ezhilavan, Founder & CEO,VEI technologies PVT.LTD, Chennai was the chief guest for this session. He shared all his experiences to become a successful inventor and also explained the importance to have an new ideas in IoT . He also shared innovative ideas development in Robotics which are available todays industries with real time examples. At finally he completed session with hands on training of IoT and students got more real time information and hands on training related with Industrial automation and Robotics using IoT.

Mrs.P.Sasirekha, Assistant Professor, Department of Electrical and Electronics Engineering & IIC, E-Cell and IEDC Department Faculty Coordinator made all the arrangements and coordinated the programme and delivered Welcome Address and Vote of Thanks .


Programme
Coordinator


HOD/EEE

HEAD OF
Dept.of Electrical & Electronics
M.Kumarasamy College Of Engineering
Karur-639 113.



M.KUMARASAMY
COLLEGE OF ENGINEERING

Thalavapalayam, Karur - 639 113



**INSTITUTION'S
INNOVATION
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Ministry of Knowledge Initiatives



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

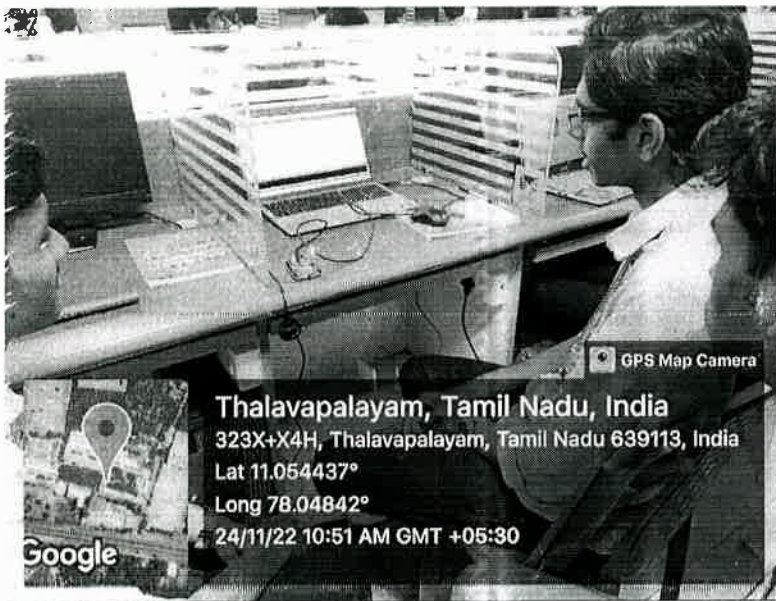
The Two day Session on “Innovative Ideas on Robotics for Industrial Applications Using IoT”

Date: 24th & 25th November 2022

Time : 9.00AM – 4.00PM

Venue : APJ Block, EEE Lab-1

Photos



D. Ashish
22/11/22

Programme Coordinator

C. Kumar

HOD/EEE
HEAD OF THE DEPARTMENT
Dept. of Electrical & Electronics Engg.
M.Kumarasamy College Of Engineering
Karur-639 113.



M.KUMARASAMY
COLLEGE OF ENGINEERING
NAAC Accredited Autonomous Institution
Approved by AICTE & Affiliated to Anna University
ISO 9001:2015 & ISO 14001:2015 Certified Institution
Thalavapalayam, Karur - 639 113.



Department of Electrical and Electronics Engineering

One Credit Course

18EEX003J- PLC and its Applications

YEAR / SEM	III YEAR/ V SEM
BATCH	2020-2024
FACULTY TRAINER	Mr.V.Prabhakaran
FACULTY INCHARGE	Mr.N.Selvam
COURSE DURATION	TWO DAYS (24-11-22 & 25-11-22)
NUMBER OF STUDENTS ATTENDED THE COURSE	65

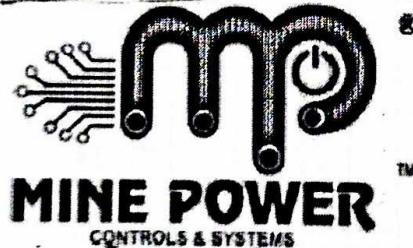
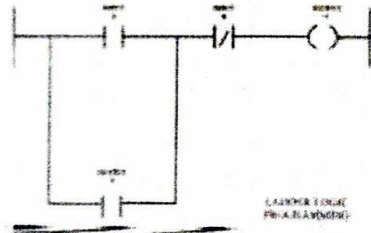


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Thalavapalayam, Karur - 639 113.



Department of EEE

Heartly welcomes you
One Credit Course on PLC & Its Applications
III - YEAR, B - SECTION



Resource Person

Mr. V. Prabhakaran

Director - Technical

Mine Power Control & Systems,
Coimbatore

Date : 24.11.2022 & 25.11.2022

Timing : 8.45 am to 4.40 pm

Venue : APJ Block - EEE Lab.-I

Dr.K.Ramakrishnan
Secretary

Dr.S.Kuppusamy
Executive Director

Dr.N.Ramesh Babu
Principal

Dr.C.Kumar
HoD/EEE

Mr.N.Selvam
One Credit in-charge



Regulation 2018		One Credit course			Total Hours	15
Category	Course Code	Course Name	Hours / Week			C
			L	T	P	
O	18EEX003J	PLC AND ITS APPLICATIONS	1	0	2	1

Prerequisite Course (s)

Digital Electronics, Solid State Drives

Course Objective (s): The purpose of learning this course is to:

- 1 Acquire a programming skill in PLC
- 2 Build a skill to work with PLC hardware interface

Course Outcome (s) (COs): At the end of this course, learners will be able to:

- CO1 Develop PLC ladder logic programs for given process sequence
- CO2 Apply the programming in PLC Hardware.

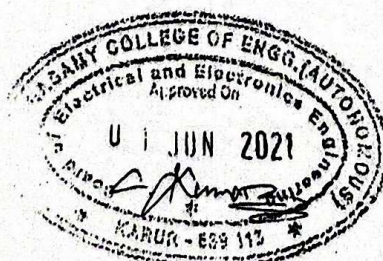
CO-PO Mapping

COs	POs												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	1	1	1	1	1	2	1	3	3	3	2	2
CO2	3	3	2	1	1	1	1	1	2	1	3	3	3	2	2
CO (Avg)	3	3	2	1	1	1	1	1	2	1	3	3	3	2	2

1: Slight (Low)

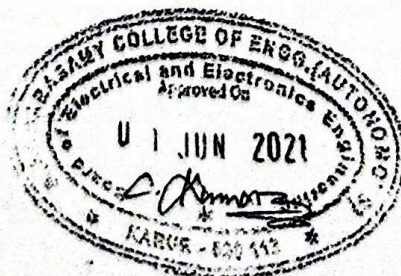
2: Moderate (Medium)

3: Substantial (High)





MODULE I	5
Electrical Automation-Introduction to Control System-Types Of control System, PLC, DCS, SCADA-Electrical Field Instruments-Control Panel Wirings, Power Supply.	
MODULE II	5
Input Module (Digital-Analog)-Output Module (Digital-Analog)- Hardware Configuration of PLC-Relay Logics-Bit Logics-Programming Language, Ladder Concept-Programming Instructions-Simulating Program Functions in Delta PLC Software-Simulating Practical Tasks-Hardware Description-Program With DELTA DVP , Siemens S7-1200 PLC-Timer Function-Counter Function-Math Function-Compare Function-Program -Upload/Download-Tricks & Tips.	
MODULE III	5
Various proto type models	
Reference (s)	
1	Kenney, Muirae (2020-11-24). "The Basics of Ladder Logic". Automation Industrial. Retrieved 2020-11-24.
2	Maher, Michael J. "Real-Time Control and Communications", 18th Annual ESD/SMI International Programmable Controllers Conference Proceedings, 1989, p. 431-436.
3	M. A. Laughton, D. J. Warne (ed), "Electrical Engineer's Reference book", 16th edition, Newnes, 2003 Chapter 16 Programmable Controller
4	Bennett, S. (1979), "A History of Control Engineering", 1800-1930. London: Peter Peregrinus Ltd. pp. 47, 266. ISBN 978-0-86341-047-5.





Prabhakaran .V
Director - Technical

M +91 93644 47184
E minepowerindia@gmail.com
W www.minepower.in



MINE POWER
CONTROLS & SYSTEMS
237-D, 1st Street, Annanagar,
Near Balaji Hospital,
Sundharapuram,
Coimbatore - 641 024.

AWARDS

Director - Technical, Automation, MINE POWER CONTROLS & SYSTEMS,
Coimbatore. Dec 2016 - XXX 20XX

DOCTOR OF BUSINESSES,
INTERNATIONAL GLOBAL
PEACE UNIVERSITY.

Providing Industrial Automation Projects & Services
Troubleshooting, Repairs, Modifications, retrofits, more on:
SCADA System, PLC System, SERVO System, CNC System, SPM Machines,
Industrial Control Panels, Plasma & Flame Machines, Furnaces Automation,

GOLD STAR
MILLENNIUM,
THE PEAKS Magazine.

APPLICATION ENGINEER, Automation, SMAP TECH ENTERPRISES,
Coimbatore. Dec 2014 - MAR -2015

BHARTH JOTHI
EXCELLENCE,
NATIONAL INTEGRITY
CULTURAL ACADEMY.

A competent Application engineer with a comprehensive knowledge of designing
developing and maintaining electrical systems
Preparation of Electrical procedures for installation test & commissioning.
Development of PLC logic program equipping with PLC/HMI.
Designing of SCADA based application screens.
VFD & Servo Installation And Application Development
Control panel Wiring & Designing.

ACHIEVEMENT

Orientation Cum Skill
Upgradation
Programme.OMCL.

INDUSTRIAL PROCESS AUTOMATION TRAINING, AXIS Global,
Coimbatore. Dec 2015 - Feb 2016

L&T Electrician's
Training Programme.

PLC - AB(Micro Logic), ABB, DELTA(DVP Series),
SIEMENS, SCHNEIDER, MITSUBISHI, OMRON, HORNER, KEYENCE.
HMI - DELTA (DOP Series), ABB,SCHNEIDER.
VFD - ABB, DELTA (Installation and Control Techniques).DCS - ABB.
SCADA - WONDERWARE INTOUCH (Version 10), Intellution Fix32, RS View 32.

Automation
Products Training,
Lubi Electronics

EDUCATION

Diploma in EEE,
Jeeva's polytechnic, CBE
90% 2010 - 2013

TECHNICAL APPRENTICE, Electrical ,Power House 3, TANGEDCO,
Kundha. Nov 2013 - Nov 2014

ITI (Wire man)
NCVT, Govt.ITI,Coimbatore.
80% 2006 - 2008

180MW Power House - Electrical Safety Procedures, Fundamentals of
Electricity & Power Generation,
700A Alternator Maintenance, 11KV to 230KV Transformer
Installation & Maintenance,
Wiring Techniques, Electrical Services & Circuit Breakers, Electric Control Circuit
Diagnostics, Power System Maintenance & Installation.

LAB TECHNICIAN, (ECE), SRI ESWAR COLLEGE OF ENGG, Kinathukadavu,
Coimbatore. Mar 2010 - Aug 2010

LAB TECHNICIAN, (ECE), TAMILNADU COLLEGE OF ENGG, Karumathampatty,
Coimbatore. Nov 2008 - Feb 2010



M.KUMARASAMY COLLEGE OF ENGINEERING, KARUR - 639 113

(An Autonomous Institution Affiliated to Anna University, Chennai)

Students Name List

Printed On : 25-11-2022

Faculty Id & Name : 1141018 - Mr.SELVAM N

Designation : Assistant Professor

Department : B.E.(Electrical and Electronics Engineering)

Batch : 2020-2024

Course Code & Name : 18EEX003J - PLC AND ITS APPLICATIONS

Day & Hour : Wednesday & 9

Semester : 5

S.No.	Register No.	Name	Date of Birth	Gender
1.	20BEE4055	20BEE4055 - NANTHAKUMAR P	13-06-2003	Male
2.	20BEE4056	20BEE4056 - NARENDHIRAN S	10-09-2002	Male
3.	20BEE4057	20BEE4057 - NAVEEN G	12-09-2002	Male
4.	20BEE4058	20BEE4058 - NIKITHA K	29-03-2002	Female
5.	20BEE4059	20BEE4059 - NIRMALKUMAR C	16-05-2003	Male
6.	20BEE4060	20BEE4060 - NITHISH M	20-07-2002	Male
7.	20BEE4061	20BEE4061 - NITHISHKUMAR C	16-05-2003	Male
8.	20BEE4063	20BEE4063 - PRADEEPA S	24-06-2002	Female
9.	20BEE4065	20BEE4065 - PRASHANNA SRI M	03-06-2003	Female
10.	20BEE4066	20BEE4066 - PRAVINKUMAR J	11-08-2002	Male
11.	20BEE4067	20BEE4067 - RAGAVAN S	26-01-2003	Male
12.	20BEE4068	20BEE4068 - RAGUL P	01-12-2002	Male
13.	20BEE4069	20BEE4069 - RAJA P	17-08-2002	Male
14.	20BEE4070	20BEE4070 - RAMESH S	11-09-2002	Male
15.	20BEE4071	20BEE4071 - RAMYA M	15-02-2003	Female
16.	20BEE4072	20BEE4072 - RUBA P	15-05-2003	Female
17.	20BEE4073	20BEE4073 - SABARINATHAN P	07-06-2002	Male
18.	20BEE4074	20BEE4074 - SABARISH C	06-01-2003	Male
19.	20BEE4075	20BEE4075 - SAKTHIVEL M	17-09-2002	Male
20.	20BEE4076	20BEE4076 - SAKTHIVEL P	14-09-2002	Male
21.	20BEE4077	20BEE4077 - SAKTHIVEL S	21-10-2002	Male
22.	20BEE4078	20BEE4078 - SANJAI S	26-10-2002	Male
23.	20BEE4079	20BEE4079 - SANTHOSH K	21-09-2002	Male
24.	20BEE4080	20BEE4080 - SARANYA M	05-03-2003	Female
25.	20BEE4081	20BEE4081 - SARIBA MUNOVARA A	22-05-2003	Female
26.	20BEE4082	20BEE4082 - SATHISH R	24-06-2003	Male
27.	20BEE4083	20BEE4083 - SATHISH T	10-01-2003	Male
28.	20BEE4084	20BEE4084 - SHALINI M	12-08-2002	Female
29.	20BEE4085	20BEE4085 - SHALINI P	04-09-2002	Female
30.	20BEE4086	20BEE4086 - SHANTHOSH K	13-11-2002	Male
31.	20BEE4087	20BEE4087 - SIBIRAJ R	16-09-2002	Male
32.	20BEE4088	20BEE4088 - SIVAJANANI G	21-05-2003	Female
33.	20BEE4089	20BEE4089 - SIVAKUMAR S	24-06-2003	Male
34.	20BEE4090	20BEE4090 - SIVASELVAN S	09-12-2002	Male



M.KUMARASAMY COLLEGE OF ENGINEERING, KARUR - 639 113

(An Autonomous Institution Affiliated to Anna University, Chennai)

Students Name List

Printed On : 25-11-2022

Faculty Id & Name : 1141018 - Mr.SELVAM N

Designation : Assistant Professor

Department : B.E.(Electrical and Electronics Engineering)

Batch : 2020-2024

Course Code & Name : 18EEX003J - PLC AND ITS APPLICATIONS

Day & Hour : Wednesday & 9

Semester : 5

S.No.	Register No.	Name	Date of Birth	Gender
35.	20BEE4091	20BEE4091 - SRINITHA R	16-11-2002	Female
36.	20BEE4092	20BEE4092 - SRIRAM K	30-12-2002	Male
37.	20BEE4093	20BEE4093 - SUDAHAR R	02-03-2003	Male
38.	20BEE4094	20BEE4094 - SUDHARSAN T	05-12-2003	Male
39.	20BEE4095	20BEE4095 - SUGADEV M	28-09-2000	Male
40.	20BEE4096	20BEE4096 - SUGANTHAKUMAR S	13-09-2003	Male
41.	20BEE4097	20BEE4097 - SUGUNESH R	18-11-2002	Male
42.	20BEE4098	20BEE4098 - SUJEETHVISHNU V	17-08-2003	Male
43.	20BEE4099	20BEE4099 - SUJITH P	06-01-2003	Male
44.	20BEE4100	20BEE4100 - SURIYAKUMAR N	13-02-2003	Male
45.	20BEE4101	20BEE4101 - SURYA K	15-12-2002	Male
46.	20BEE4102	20BEE4102 - SURYA S	20-05-2003	Female
47.	20BEE4103	20BEE4103 - SUSMITHA S	03-04-2003	Female
48.	20BEE4104	20BEE4104 - VARUN REVANTH R M	19-12-2002	Male
49.	20BEE4105	20BEE4105 - VIGNESH C	23-10-2002	Male
50.	20BEE4106	20BEE4106 - VIJAYABALAN S	31-07-2003	Male
51.	20BEE4107	20BEE4107 - VIJAYABHARANI D	15-07-2002	Male
52.	20BEE4108	20BEE4108 - YESVANTH B	20-04-2003	Male
53.	20BEE4109	20BEE4109 - YOGESHWARAN S	03-06-2002	Male
54.	20BEE4308	20BEE4308 - KAMALESH P	18-04-2002	Male
55.	20BEE4313	20BEE4313 - KAVIYARASAN T	06-08-2001	Male
56.	20BEE4315	20BEE4315 - MADHANPRAKASH S	20-08-2001	Male
57.	20BEE4316	20BEE4316 - MOUREESWARAN R	12-05-2000	Male
58.	20BEE4317	20BEE4317 - NARESH S	14-06-2003	Male
59.	20BEE4318	20BEE4318 - PRITHVIRAJ B	02-08-2003	Male
60.	20BEE4319	20BEE4319 - RANJITH KUMAR J	29-10-2002	Male
61.	20BEE4320	20BEE4320 - SARANBABU B.C	02-07-2002	Male
62.	20BEE4321	20BEE4321 - SUBASH S	24-06-2003	Male
63.	20BEE4322	20BEE4322 - THINESH KUMAR G	15-06-2002	Male
64.	20BEE4323	20BEE4323 - VISWANATHAN P	21-02-2002	Male
65.	20BEE4324	20BEE4324 - YUVANSHANKAR M	26-08-2001	Male

N. G. Srinivasan
Staff Incharge

C. Kumarasamy
HEAD OF THE DEPARTMENT
Dept. of Electrical & Electronics Engg.
M. Kumarasamy College Of Engineering
Karur-639 113



Department of Electrical and Electronics Engineering
Academic Year 2022-2023 / Odd Semester
One Credit Course on "PLC and Its Applications"

Year / Sec - III / B

Attendance Record

Time - 8.40 am - 4.40 pm

Date : 24-11-2022 & 25-11-2022

Venue - EEE Lab-1

S.NO	Register No.	Name	24.11.2022 FN	24.11.2022 AN	25.11.2022 FN	25.11.2022 AN
1	20BEE4055	NANTHAKUMAR P	P.Nanthan	P.Nanthan	P.Nanthan	P.Nanthan
2	20BEE4056	NARENDHIRAN S	S.NAN	S.NAN	S.NAN	S.NAN
3	20BEE4057	NAVEEN G	G.Naveen	G.Naveen	G.Naveen	G.Naveen
4	20BEE4058	NIKITHA K	K.Nikitha	K.Nikitha	K.Nikitha	K.Nikitha
5	20BEE4059	NIRMALKUMAR C	C.Nirmal	C.Nirmal	C.Nirmal	C.Nirmal
6	20BEE4060	NITHISH M	M.Nithish	M.Nithish	M.Nithish	M.Nithish
7	20BEE4061	NITHISHKUMAR C	C.Nithish	C.Nithish	C.Nithish	C.Nithish
8	20BEE4063	PRADEEPA S	S.Pradeepa	S.Pradeepa	S.Pradeepa	S.Pradeepa
9	20BEE4065	PRASHANNA SRI M	M.Prashanna	M.Prashanna	M.Prashanna	M.Prashanna
10	20BEE4066	PRAVINKUMAR J	J.Pravin	J.Pravin	J.Pravin	J.Pravin
11	20BEE4067	RAGAVAN S	S.Ragav	S.Ragav	S.Ragav	S.Ragav
12	20BEE4068	RAGUL P	P.Ragul	P.Ragul	P.Ragul	P.Ragul
13	20BEE4069	RAJA P	P.Raja	P.Raja	P.Raja	P.Raja
14	20BEE4070	RAMESH S	S.Ramesh	S.Ramesh	S.Ramesh	S.Ramesh
15	20BEE4071	RAMYA M	M.Ramya	M.Ramya	M.Ramya	M.Ramya
16	20BEE4072	RUBA P	P.Ruba	P.Ruba	P.Ruba	P.Ruba
17	20BEE4073	SABARINATHAN P	P.Sabar	P.Sabar	P.Sabar	P.Sabar
18	20BEE4074	SABARISH C	C.Sabarish	C.Sabarish	C.Sabarish	C.Sabarish
19	20BEE4075	SAKTHIVEL M	M.Sakthivel	M.Sakthivel	M.Sakthivel	M.Sakthivel
20	20BEE4076	SAKTHIVEL P	P.Sakthi	P.Sakthi	P.Sakthi	P.Sakthi
21	20BEE4077	SAKTHIVEL S	S.Sakthi	S.Sakthi	S.Sakthi	S.Sakthi
22	20BEE4078	SANJAI S	S.Sanjai	S.Sanjai	S.Sanjai	S.Sanjai
23	20BEE4079	SANTHOSH K	K.Santhosh	K.Santhosh	K.Santhosh	K.Santhosh
24	20BEE4080	SARANYA M	M.Saranya	M.Saranya	M.Saranya	M.Saranya
25	20BEE4081	SARIBA MUNOVARA A	A.Sariba	A.Sariba	A.Sariba	A.Sariba
26	20BEE4082	SATHISH R	R.Sathish	R.Sathish	R.Sathish	R.Sathish
27	20BEE4083	SATHISH T	T.Sathish	T.Sathish	T.Sathish	T.Sathish
28	20BEE4084	SHALINI M	M.Shalini	M.Shalini	M.Shalini	M.Shalini
29	20BEE4085	SHALINI P	P.Shalini	P.Shalini	P.Shalini	P.Shalini
30	20BEE4086	SHANTHOSH K	K.Shanthosh	K.Shanthosh	K.Shanthosh	K.Shanthosh

31	20BEE4087	SIBIRAJ R	R. Siba	R. Siba	R. Siba	R. Siba
32	20BEE4088	SIVAJANANI G	G. Siff	G. Siff	G. Siff	G. Siff
33	20BEE4089	SIVAKUMAR S	S. Seva	S. Seva	S. Seva	S. Seva
34	20BEE4090	SIVASELVAN S	S. Siva Selva	S. Siva Selva	S. Siva Selva	S. Siva Selva
35	20BEE4091	SRINITHA R	R. Siffa	R. Siffa	R. Siffa	R. Siffa
36	20BEE4092	SRIRAM K	K. Chy	K. Chy	K. Chy	K. Chy
37	20BEE4093	SUDAHAR R	R. Sudhar	R. Sudhar	R. Sudhar	R. Sudhar
38	20BEE4094	SUDHARSAN T	T. Sudhar	T. Sudhar	T. Sudhar	T. Sudhar
39	20BEE4095	SUGADEV M	M. Sugadev	M. Sugadev	M. Sugadev	M. Sugadev
40	20BEE4096	SUGANTHAKUMAR S	S. Suganthakumar	S. Suganthakumar	S. Suganthakumar	S. Suganthakumar
41	20BEE4097	SUGUNESH R	R. Sugunesh	R. Sugunesh	R. Sugunesh	R. Sugunesh
42	20BEE4098	SUJEETHVISHNU V	V. Sujee	V. Sujee	V. Sujee	V. Sujee
43	20BEE4099	SUJITH P	P. Sujith	P. Sujith	P. Sujith	P. Sujith
44	20BEE4100	SURIYA KUMAR N	N. Suriya	N. Suriya	N. Suriya	N. Suriya
45	20BEE4101	SURYA K	K. Surya	K. Surya	K. Surya	K. Surya
46	20BEE4102	SURYA S	S. Surya	S. Surya	S. Surya	S. Surya
47	20BEE4103	SUSMITHA S	S. Susmitha	S. Susmitha	S. Susmitha	S. Susmitha
48	20BEE4104	VARUN REVANTH R M	R. M. Varun Revanth	R. M. Varun Revanth	R. M. Varun Revanth	R. M. Varun Revanth
49	20BEE4105	VIGNESH C	C. Vignesh	C. Vignesh	C. Vignesh	C. Vignesh
50	20BEE4106	VIJAYABALAN S	S. Vijayabalan	S. Vijayabalan	S. Vijayabalan	S. Vijayabalan
51	20BEE4107	VIJAYABHARANI D	D. Vijayabharani	D. Vijayabharani	D. Vijayabharani	D. Vijayabharani
52	20BEE4108	YESVANTH B	B. Yesvanth	B. Yesvanth	B. Yesvanth	B. Yesvanth
53	20BEE4109	YOGESHWARAN S	S. Yogeshwaran	S. Yogeshwaran	S. Yogeshwaran	S. Yogeshwaran
54	20BEE4308	KAMALESH P	P. Kamalesh	P. Kamalesh	P. Kamalesh	P. Kamalesh
55	20BEE4313	KAVIYARASANT	T. Kaviyarasan	T. Kaviyarasan	T. Kaviyarasan	T. Kaviyarasan
56	20BEE4315	MADHANPRAKASH S	S. Madhanprakash	S. Madhanprakash	S. Madhanprakash	S. Madhanprakash
57	20BEE4316	MOUREESWARAN R	R. Moureeswaran	R. Moureeswaran	R. Moureeswaran	R. Moureeswaran
58	20BEE4317	NARESH S	S. Nareesh	S. Nareesh	S. Nareesh	S. Nareesh
59	20BEE4318	PRITHVIRAJ B	B. Prithviraj	B. Prithviraj	B. Prithviraj	B. Prithviraj
60	20BEE4319	RANJITH KUMAR J	J. Ranjith Kumar	J. Ranjith Kumar	J. Ranjith Kumar	J. Ranjith Kumar
61	20BEE4320	SARANBABU B C	B. C. Saranbabu	B. C. Saranbabu	B. C. Saranbabu	B. C. Saranbabu
62	20BEE4321	SUBASH S	S. Subash	S. Subash	S. Subash	S. Subash
63	20BEE4322	THINESH KUMAR G	G. Thinesh Kumar	G. Thinesh Kumar	G. Thinesh Kumar	G. Thinesh Kumar
64	20BEE4323	VISWANATHAN P	P. Viswanathan	P. Viswanathan	P. Viswanathan	P. Viswanathan
65	20BEE4324	YUVANSHANKAR M	M. Yuvanshankar	M. Yuvanshankar	M. Yuvanshankar	M. Yuvanshankar

N. J. Anon
Staff Incharge
24/11/2022

C. Kumar
HoD/EEE

HEAD OF THE DEPARTMENT
Dept. of Electrical & Electronics Engg.
M. Kumarasamy College Of Engineering
Karur-639 113.



EMPLOYERS FEEDBACK ON CURRICULUM

Dear Employers,

As industry is the ultimate customer of engineering graduates, its satisfaction about standards and content of **M. Kumarasamy College of Engineering** products is important. We always maintain a continuous dialogue accordingly. As the ultimate beneficiary of our quality product your support and feedback will help us to maintain the required standards of education. Here are some of the points to facilitate you in giving feedback about our students. You are requested to give marks in the box provided against each item as per the following norms.

Excellent (5)	Very Good (4)	Good (3)	Average (2)	Poor (1)
---------------	---------------	----------	-------------	----------

Name of the Company : Mine power controls and systems, Coimbatore

Name of the evaluating person with Designation: Mr. V. Prabhakaran, Director - Techni

About M. Kumarasamy College of Engineering Products already employed:

S No	Questionarie	Excellent	Very good	Good	Average	Poor
1	Content and coverage of curriculum		✓			
2	Adequacy of core courses in the curriculum	✓				
3	Adequacy of elective courses in the curriculum	✓				
4	Inclusion of practical content in the curriculum	✓				
5	Knowledge about recent tools and their usage		✓			
6	Developing practical solutions to work place problems	✓				
7	Self-motivated and taking on appropriate level of responsibility	✓				
8	Technical knowledge/skill ability to manage/leadership innovativeness	✓				
9	Ability to contribute to the goal of the organization and relationship with seniors/peers/subordinates	✓				
10	Obligation to work beyond schedule if required	✓				

Date: 25/11/22



Signature of the Employer



Register Number:

--	--	--	--	--	--	--	--	--	--

ASSESSMENT TEST -1
III Year / 5th Semester
18EEX003J-PLC AND ITS APPLICATIONS
(ELECTRICAL AND ELECTRONICS ENGINEERING)

Date: 25-11-2022

Maximum: 40 Marks

Time Duration: 1 hour

Answer All Questions
PART A – (20 x 2 = 40 marks)

1.	Draw the latch contactor diagram.	CO1	K1
2.	Define timer with instruction.	CO1	K1
3.	State five commercial application of PLC.	CO1	K1
4.	List down the general application of PLC for control	CO1	K1
5.	Difference between SCADA and HMI.	CO1	K2
6.	Define relay and draw an OR gate logic.	CO1	K1
7.	What is an internal relay in PLC?	CO1	K1
8.	What is sink and source mode?	CO1	K1
9.	What are the factors consider during PLC selection.	CO1	K1
10.	What the rules of Ladder Logic?	CO1	K1
11.	Difference between relay and plc.	CO2	K2
12.	Draw the sink input of PLC.	CO2	K1
13.	How VFD is better than starters?	CO2	K1
14.	Write six instructions.	CO2	K1
15.	Write the programme for the automatic bottle rejection process.	CO2	K2
16.	Write the program about one commercial application.	CO2	K2
17.	Write notes about RS-232 communication	CO2	K1
18.	Explain the PLC operational elements.	CO2	K2
19.	Write about the functions of VFD system.	CO2	K1
20.	Draw the diagram of DOL starter.	CO2	K1

N. Of
Faculty incharge

C. Kumarasamy
HOD/EEE

HEAD OF THE DEPARTMENT
Dept. of Electrical & Electronics Engg.
M. Kumarasamy College Of Engineering
Karur-639 113.

Assessment Test-1.

NAME : P. RUBA

REG. NO : 20BEE4072

YEAR / SEM : III / V

SECTION : B

DEPARTMENT : ELECTRICAL AND

ELECTRONICS ENGINEERING

SUBJECT : PROGRAMMABLE LOGIC

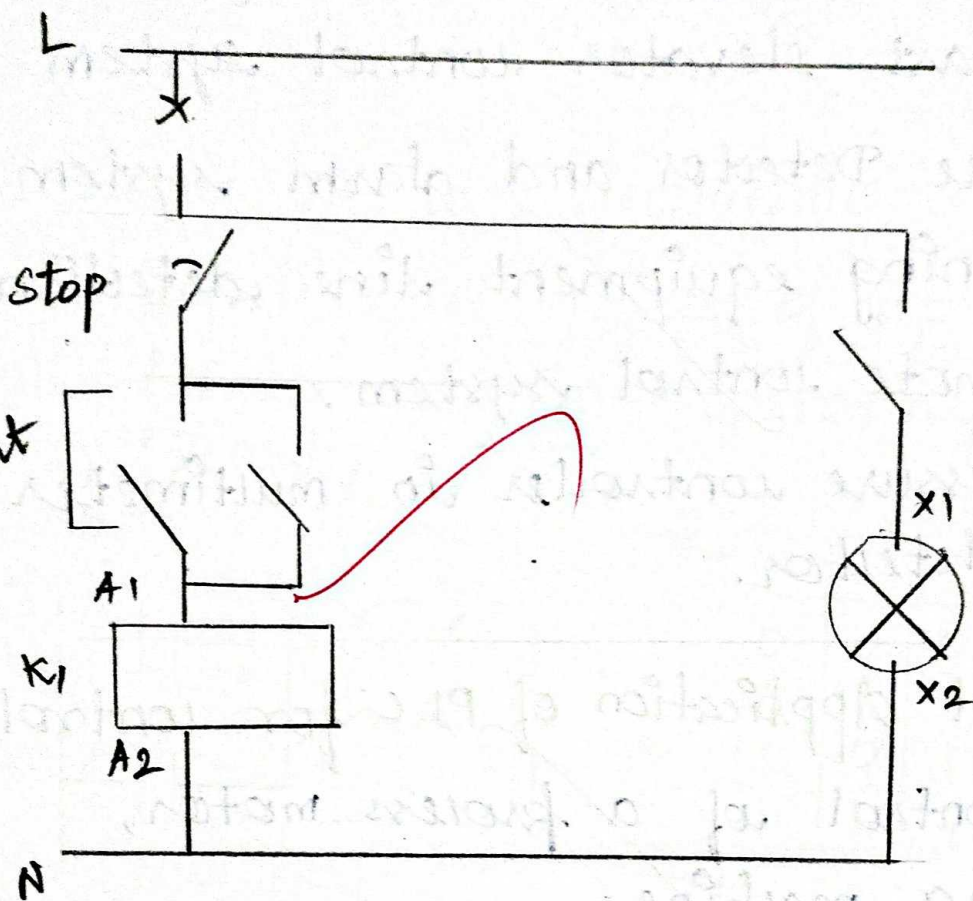
CONTROLLER AND ITS APPLICATIONS

SUB CODE : 18EEX003J

40
40

~~N. S. Kumar~~

1. Latch contactor Diagram:



2. Timer with Instruction:

A timer is a PLC instruction measuring the amount of time elapsed. Timer instructions come in two basic types on delay timers and off delay timers. Both have single inputs triggering the timed functions.

3. Commercial application of PLC:

- * Smart traffic control signal system.
- * Smart elevator control system
- * Fire Detector and alarm system.
- * Mining equipment line detection and remote control system.
- * Pressure controller in multimeter pump detector.

4. General Application of PLC for control:

- * Control of a process motor, vibrating machine.
- * Control of a two pneumatic piston
- * Detecting sorting, packing unit.

5. Difference between SCADA and HMI:-

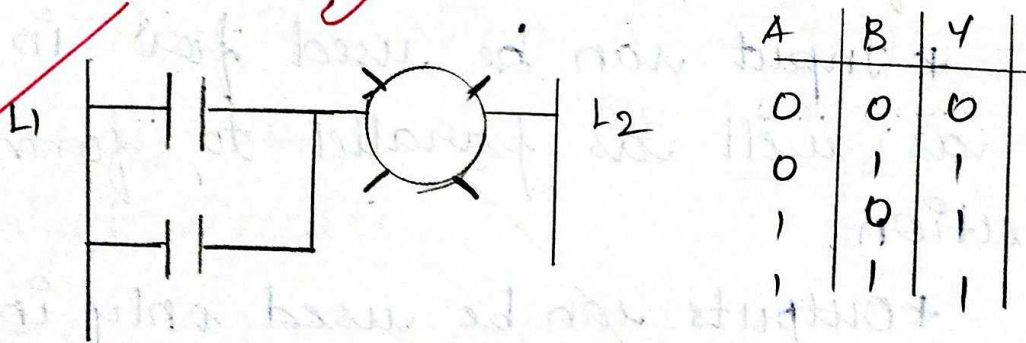
* The main difference is a remote monitoring system, whereas HMI is a local to machine.

* HMI for example would be placed on the control panel near a part of the machine whereas SCADA.

SCADA would be setup in a control room far away from the machine itself.

6. Relay:

A relay is an electrically operated switch. It consists of a set of input terminals for a signal operating control terminals.



7. Internal Relay in PLC:

* Sink and source are terms used to define the flow of direct current in an electric circuit.

* A sinking digital input/output provides a grounded connection to the load, whereas a sourcing digital input/output provides a voltage source to the load.

9. Factors to be considered for selecting PLC case

- * System definition
- * Choosing the input and output hardware
- * Analog input/output module
- * Input/output timing consideration.

10. Rules of ladder logic:

* Input can be used for in series as well as parallel to form a connection.

* Outputs can be used only in parallel.

* One input can be used in multiple times in one diagram

* One output cannot be used multiple times in one program except in set/Reset and latch/unlatch function

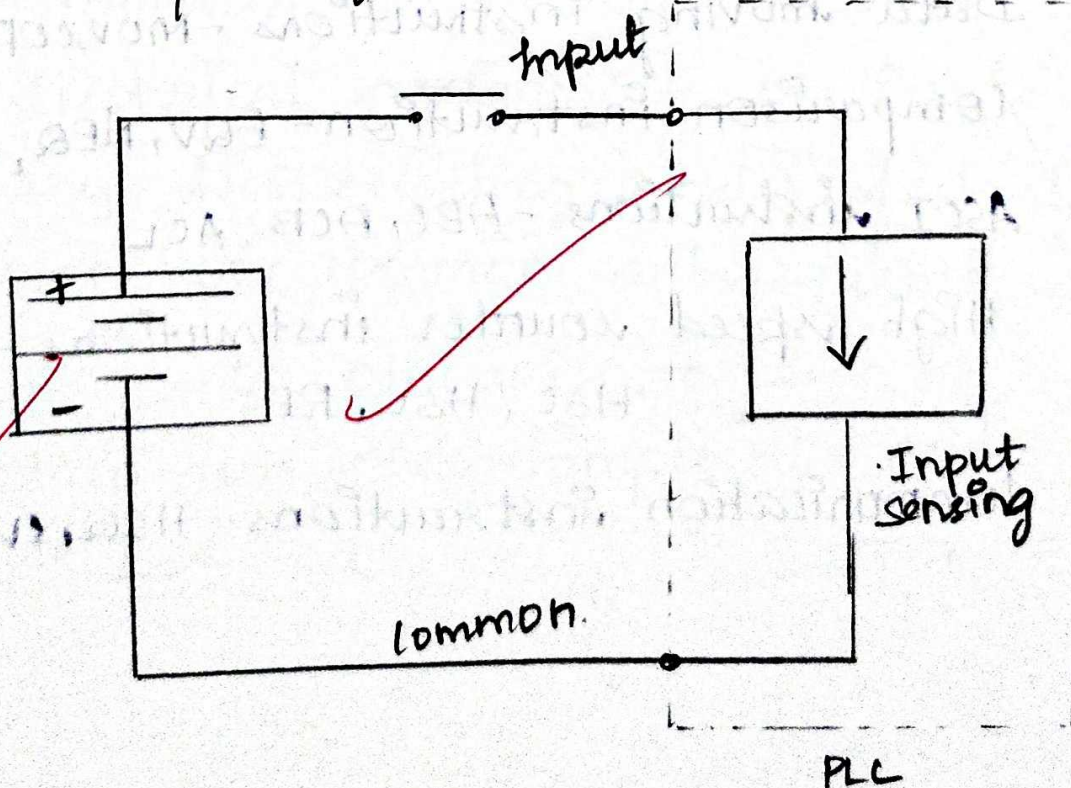
* Input address cannot be used as output.

11. Difference between Relay and PLC :-

* The difference between a PLC and relay logic is that PLC is a programmable device whereas relay logic is a network of hardwired electrical devices.

* Both PLC and relay logic can perform logic computation but a PLC does it using a microprocessor and relay logic does it using electrical circuits.

12. Sink input of PLC :-



13. VFD - Reason:

A VFD would be better than a soft starter because the speed of the fan will need to vary. The main difference between two is that a VFD can vary the speed of a motor while a soft starter only controls the starting and stopping of the motor.

14. Six Instruction:-

Relay type instruction - IO, OR, SET

Data moving instructions - MOV, COP

Comparison instruction - EQV, NEQ, GREQ

ASCII instructions - ABC, ACB, ACL

High speed counter instructions - HSC, HSL, RES

Communication instructions - HSC, SVC.

15. Program for automatic bottle rejection process:

* PLC program for automatic bottle rejection system is PLC program. Nowadays the automation in industries is necessary for accurate and fast production.

* Fallen bottle on the conveyor may create problem in next process. So we discuss a simple PLC logic which handles fallen bottle.

16. Program about commercial applications

* Commercial application means the electrical assignment or license of any thing existing under federal or state or common subsequence.

on otherwise, explore on uncertain or work sample - I and sample II.

17. RS-232 communication:-

It stands for "Recommended standard 232" and it is a type of serial communication used for transmission of data normally in medium distance and defines the signal connecting between DTE and DCE. DTE stands for DATA terminal equipment; DCE stands for Data connect Equipment.

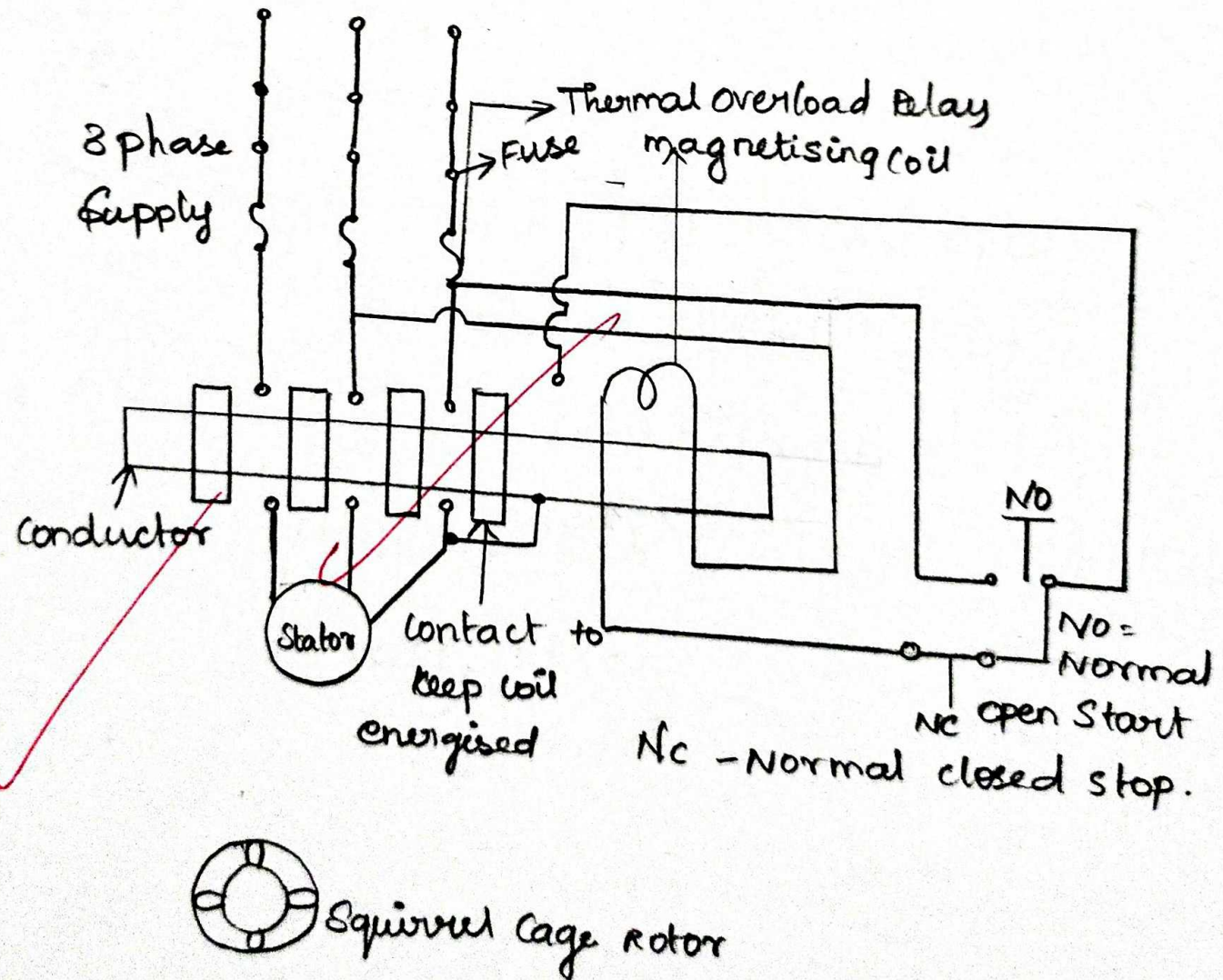
18. LC Operational elements:

- * Processor
- * Power supply
- * Input/output system
- * The processor or the brain of PLC system is said to be solid device designed to perform a wide variety of production, machine tool, process.

19. Function of VFD system:

A variable frequency devices is a type of motor controller that drives a electric motor by varying the frequency and voltage of a power supply. The VFD also has the capacity to control ramp up - ramp down of motor.

20. Diagram of DOL starter:





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(An Autonomous Institution Affiliated to Anna University, Chennai)

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COE

Course Consolidated Internal Marks

Department : B.E.(Electrical and Electronics Engineering)

Semester : 5

Batch : 2020-2024

Section : B

Course Code & Name : 18EEX003J - PLC AND ITS APPLICATIONS

S.No.	Reg. No.	Name	Internal Marks(Max. 100 Marks)	Internal Marks(In Words)
1	20BEE4055	NANTHAKUMAR P	88	EIGHT EIGHT
2	20BEE4056	NARENDHIRAN S	97	NINE SEVEN
3	20BEE4057	NAVEEN G	97	NINE SEVEN
4	20BEE4058	NIKITHA K	96	NINE SIX
5	20BEE4059	NIRMALKUMAR C	96	NINE SIX
6	20BEE4060	NITHISH M	90	NINE ZERO
7	20BEE4061	NITHISHKUMAR C	92	NINE TWO
8	20BEE4063	PRADEEPA S	97	NINE SEVEN
9	20BEE4065	PRASHANNA SRI M	98	NINE EIGHT
10	20BEE4066	PRAVINKUMAR J	88	EIGHT EIGHT
11	20BEE4067	RAGAVAN S	87	EIGHT SEVEN
12	20BEE4068	RAGUL P	90	NINE ZERO
13	20BEE4069	RAJA P	90	NINE ZERO
14	20BEE4070	RAMESH S	90	NINE ZERO
15	20BEE4071	RAMYA M	94	NINE FOUR
16	20BEE4072	RUBA P	98	NINE EIGHT
17	20BEE4073	SABARINATHAN P	97	NINE SEVEN
18	20BEE4074	SABARISH C	96	NINE SIX
19	20BEE4075	SAKTHIVEL M	96	NINE SIX
20	20BEE4076	SAKTHIVEL P	90	NINE ZERO
21	20BEE4077	SAKTHIVEL S	88	EIGHT EIGHT
22	20BEE4078	SANJAI S	97	NINE SEVEN
23	20BEE4079	SANTHOSH K	96	NINE SIX
24	20BEE4080	SARANYA M	94	NINE FOUR
25	20BEE4081	SARIBA MUNOVARA A	98	NINE EIGHT
26	20BEE4082	SATHISH R	92	NINE TWO
27	20BEE4083	SATHISH T	91	NINE ONE
28	20BEE4084	SHALINI M	94	NINE FOUR
29	20BEE4085	SHALINI P	94	NINE FOUR
30	20BEE4086	SHANTHOSH K	87	EIGHT SEVEN

Name	Mr. SELVAM N Assistant Professor B.E.(Electrical and Electronics Engineering)	Dr. KUMAR C Professor	
Signature with Date			
	Teaching Faculty	Head of The Department	Principal



Course Consolidated Internal Marks

Department : B.E.(Electrical and Electronics Engineering)
Semester : 5

Batch : 2020-2024
Section : B

Course Code & Name : 18EEX003J - PLC AND ITS APPLICATIONS

S.No.	Reg. No.	Name	Internal Marks(Max. 100 Marks)	Internal Marks(In Words)
31	20BEE4087	SIBIRAJ R	90	NINE ZERO
32	20BEE4088	SIVAJANANI G	90	NINE ZERO
33	20BEE4089	SIVAKUMAR S	90	NINE ZERO
34	20BEE4090	SIVASELVAN S	96	NINE SIX
35	20BEE4091	SRINITHA R	90	NINE ZERO
36	20BEE4092	SRIRAM K	92	NINE TWO
37	20BEE4093	SUDAHAR R	94	NINE FOUR
38	20BEE4094	SUDHARSAN T	90	NINE ZERO
39	20BEE4095	SUGADEV M	90	NINE ZERO
40	20BEE4096	SUGANTHAKUMAR S	90	NINE ZERO
41	20BEE4097	SUGUNESH R	94	NINE FOUR
42	20BEE4098	SUJEETHVISHNU V	90	NINE ZERO
43	20BEE4099	SUJITH P	92	NINE TWO
44	20BEE4100	SURIYAKUMAR N	87	EIGHT SEVEN
45	20BEE4101	SURYA K	96	NINE SIX
46	20BEE4102	SURYA S	98	NINE EIGHT
47	20BEE4103	SUSMITHA S	94	NINE FOUR
48	20BEE4104	VARUN REVANTH R M	90	NINE ZERO
49	20BEE4105	VIGNESH C	96	NINE SIX
50	20BEE4106	VIJAYABALAN S	87	EIGHT SEVEN
51	20BEE4107	VIJAYABHARANI D	90	NINE ZERO
52	20BEE4108	YESVANTH B	90	NINE ZERO
53	20BEE4109	YOGESHWARAN S	90	NINE ZERO
54	20BEE4308	KAMALESH P	90	NINE ZERO
55	20BEE4313	KAVIYARASAN T	94	NINE FOUR
56	20BEE4315	MADHANPRAKASH S	96	NINE SIX
57	20BEE4316	MOUREESWARAN R	96	NINE SIX
58	20BEE4317	NARESH S	90	NINE ZERO
59	20BEE4318	PRITHVIRAJ B	94	NINE FOUR
60	20BEE4319	RANJITH KUMAR J	86	EIGHT SIX

Name	Mr. SELVAM N Assistant Professor B.E.(Electrical and Electronics Engineering)	Dr. KUMAR C Professor	
Signature with Date	 Teaching Faculty	 Head of The Department	Principal



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COE

Course Consolidated Internal Marks

Department : B.E.(Electrical and Electronics Engineering)

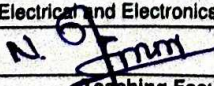
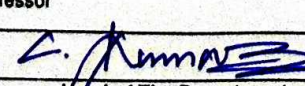
Semester : 5

Batch : 2020-2024

Section : B

Course Code & Name : 18EEX003J - PLC AND ITS APPLICATIONS

S.No.	Reg. No.	Name	Internal Marks(Max. 100 Marks)	Internal Marks(In Words)
61	20BEE4320	SARANBABU B.C	90	NINE ZERO
62	20BEE4321	SUBASH S	86	EIGHT SIX
63	20BEE4322	THINESH KUMAR G	90	NINE ZERO
64	20BEE4323	VISWANATHAN P	90	NINE ZERO
65	20BEE4324	YUVANSHANKAR M	86	EIGHT SIX

Name	Mr. SELVAM N Assistant Professor B.E.(Electrical and Electronics Engineering)	Dr. KUMAR C Professor	
Signature with Date	 Teaching Faculty	 Head of The Department	 Principal



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Thalavapalayam, Karur - 639 113.



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR (2022-2023) – EVEN SEMESTER

ONE CREDIT COURSE

18EEX003J-PLC AND ITS APPLICATIONS

Year/Sem/Class	II/IV – ‘A’ Section
Batch	2020-2024
Faculty Trainer	Mr.V. Prabhakaran, Mine Power, Coimbatore
Faculty Incharge	Dr. M.Lakshmanan, Associate Professor/EEE
Course Duration	Two Days (12-04-2023 to 13-04-2023)
Number of students attended the course	68



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Thalavapalayam, Karur, Tamilnadu.

KR

Regulation 2018		One Credit course			Total Hours	15
Category	Course Code	Course Name	Hours / Week			C
			L	T	P	
O	18EEX003J	PLC AND ITS APPLICATIONS	1	0	2	1

Prerequisite Course (s)

Digital Electronics, Solid State Drives

Course Objective (s): The purpose of learning this course is to:

- 1 Acquire a programming skill in PLC
- 2 Build a skill to work with PLC hardware interface

Course Outcome (s) (COs): At the end of this course, learners will be able to:

- CO1 Develop PLC ladder logic programs for given process sequence
- CO2 Apply the programming in PLC Hardware.

CO-PO Mapping

COs	POs												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	1	1	1	1	1	2	1	3	3	3	2	2
CO2	3	3	2	1	1	1	1	1	2	1	3	3	3	2	2
CO (Avg)	3	3	2	1	1	1	1	1	2	1	3	3	3	2	2

1: Slight (Low)

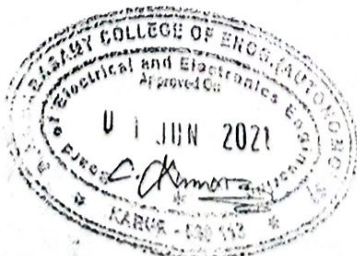
2: Moderate (Medium)

3: Substantial (High)





MODULE I	5
Electrical Automation-Introduction to Control System-Types Of control System, PLC, DCS, SCADA-Electrical Field Instruments-Control Panel Wirings, Power Supply.	
MODULE II	5
Input Module (Digital-Analog)-Output Module (Digital-Analog)- Hardware Configuration of PLC-Relay Logics-Bit Logics-Programming Language, Ladder Concept-Programming Instructions-Simulating Program Functions in Delta PLC Software-Simulating Practical Tasks- Hardware Description-Program With DELTA DVP , Siemens S7-1200 PLC-Timer Function-Counter Function-Math Function-Compare Function-Program -Upload/Download-Tricks & Tips.	
MODULE III	5
Various proto type models	
Reference (s)	
1	Kenney, Muirae (2020-11-24). "The Basics of Ladder Logic". Automation Industrial. Retrieved 2020-11-24.
2	Maher, Michael J. "Real-Time Control and Communications", 18th Annual ESD/SMI International Programmable Controllers Conference Proceedings, 1989, p. 431-436.
3	M. A. Laughton, D. J. Warne (ed), "Electrical Engineer's Reference book", 16th edition, Newnes, 2003 Chapter 16 Programmable Controller
4	Bennett, S. (1979), "A History of Control Engineering", 1800-1930. London: Peter Peregrinus Ltd. pp. 47, 266. ISBN 978-0-86341-047-5.





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Director - Technical

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MINE POWER
CONTROLS & SYSTEMS

237-D, 1st Street, Annanagar,
Near Balaji Hospital,
Sundharapuram,
Coimbatore - 641 024.

AWARDS

01

Director - Technical, Automation, MINE POWER CONTROLS & SYSTEMS,
Coimbatore.
Dec 2016 - XXX 20XX

DOCTOR OF BUSINESSES,
INTERNATIONAL GLOBAL
PEACE UNIVERSITY.

Providing Industrial Automation Projects & Services
Troubleshooting, Repairs, Modifications, retrofits, more on:
SCADA System, PLC System, SERVO System, CNC System, SPM Machines,
Industrial Control Panels, Plasma & Flame Machines, Furnaces Automation,

GOLD STAR
MILLENNIUM,
THE PEAKS Magazine.

APPLICATION ENGINEER, Automation, SMAP TECH ENTERPRISES,
Coimbatore.
Dec 2014 - MAR -2015

BHARTH JOTHI
EXCELLENCE,
NATIONAL INTEGRITY
CULTURAL ACADEMY.

A competent Application engineer with a comprehensive knowledge of designing
developing and maintaining electrical systems
Preparation of Electrical procedures for installation test & commissioning.
Development of PLC logic program equipping with PLC/HMI.
Designing of SCADA based application screens.
VFD & Servo Installation And Application Development
Control panel Wiring & Designing.

ACHIEVEMENT

02

Orientation Cum Skill
Upgradation
Programme.OMCL.

INDUSTRIAL PROCESS AUTOMATION TRAINING, AXIS Global,
Coimbatore.
Dec 2015 - Feb 2016

L&T Electrician's
Training Programme.

PLC - AB(Micro Logic), ABB, DELTA(DVP Series),
SIEMENS, SCHNEIDER, MITSUBISHI, OMRON, HORNER, KEYENCE.
HMI - DELTA (DOP Series), ABB, SCHNEIDER.
VFD - ABB, DELTA (Installation and Control Techniques).DCS - ABB.
SCADA - WONDERWARE INTOUCH (Version 10), Intellution Fix32, RS View 32.

Automation
Products Training,
Lubi Electronics

TECHNICAL APPRENTICE, Electrical, Power House 3, TANGEDCO,
Kundha.
Nov 2013 - Nov 2014

EDUCATION

03

Diploma in EEE,
Jeeva's polytechnic, CBE
90% 2010 - 2013

180MW Power House - Electrical Safety Procedures, Fundamentals of
Electricity & Power Generation,
700A Alternator Maintenance, 11KV to 230KV Transformer
Installation & Maintenance,
Wiring Techniques, Electrical Services & Circuit Breakers, Electric Control Circuit
Diagnostics, Power System Maintenance & Installation.

ITI (Wire man)
NCVT, Govt. ITI, Coimbatore.
80% 2006 - 2008

LAB TECHNICIAN, (ECE), SRI ESWAR COLLEGE OF ENGG, Kinathukadavu,
Coimbatore.
Mar 2010 - Aug 2010

LAB TECHNICIAN, (ECE), TAMILNADU COLLEGE OF ENGG, Karumathampatty,
Coimbatore.
Nov 2008 - Feb 2010



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Thalavapalayam, Karur - 639 113.



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

*Cordially invites you all for One Credit Course
on*

“PLC & ITS APPLICATIONS”

Resource Person

Mr. Prabhakaran
Head-Technical
Mine Power
Coimbatore.

Venue: APJ Block, EEE Lab-1
Date: 12.04.2023 & 13.04.2023
Timing: 8.40AM – 4.40PM

Dr.K.Ramakrishnan
Secretary

Dr.S.Kuppusamy
Executive Director

Dr. B.S.Murugan
Principal

Dr.J.Uma
HoD/EEE

Dr.M.Lakshmanan
One Credit course
In-charge



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Thalavapalayam, Karur - 639 113.



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

BATCH : 2021-2025

ACADEMIC YEAR : 2022-2023 (EVEN SEMESTER)

ONE CREDIT COURSE ATTENDANCE

TITLE: 18EEX003J-PLC AND ITS APPLICATIONS

YEAR / SEMESTER / SECTION : II / IV / A						
S.No	Roll No	Student Name	12.04.2023		13.04.2023	
			FN	AN	FN	AN
			1st SESSION	2nd SESSION	3rd SESSION	4th SESSION
1	927621BEE001	ABISHEK J S	J. d. Abhishek	J. d. Abhishek	J. d. Abhishek	J. d. Abhishek
2	927621BEE002	ADITHYA MURUGESH J	J. Aditya	J. Aditya	J. Aditya	J. Aditya
3	927621BEE003	AJAY K	K. Ajay	K. Ajay	K. Ajay	K. Ajay
4	927621BEE004	AJEETH S	S. Ajeeth	S. Ajeeth	S. Ajeeth	S. Ajeeth
5	927621BEE005	ANANTH C	C. Ananth	C. Ananth	C. Ananth	C. Ananth
6	927621BEE006	ANCHANA B	Anchana B	Anchana B	Anchana B	Anchana B
7	927621BEE007	ARCHANA J	J. Archana	Archana.	J. Archana	J. Archana
8	927621BEE008	ARIHARAN M	M. Ariharan	M. Ariharan	M. Ariharan	M. Ariharan
9	927621BEE009	ARIVARASU D	D. Arivarasu	D. Arivarasu	D. Arivarasu	D. Arivarasu
10	927621BEE010	ARUNA S	S. Aruna	Arul	Arul	Arul
11	927621BEE011	BANUPRIYA K	K. Banupriya	Banupriya	Banupriya	Banupriya
12	927621BEE012	BARATH SRINIVASAN K	K. Barath	K. Barath	K. Barath	K. Barath
13	927621BEE013	BARATHKUMAR R	R. Barath	R. Barath	R. Barath	R. Barath
14	927621BEE014	BHARATH S	S. Bharath	S. Bharath	S. Bharath	S. Bharath
15	927621BEE015	BHARATHI S	S. Bharathi	S. Bharathi	S. Bharathi	S. Bharathi

16	927621BEE016	BHARATHY M	Bharthy M	Bharthy M	Bharthy M	Bharthy M
17	927621BEE017	CARMEL JENIFER I W	Carmel Jenifer	Carmel Jenifer	Carmel Jenifer	Carmel Jenifer
18	927621BEE018	CHANDRU R	Chandru R.	Chandru R.	Chandru R.	Chandru R.
19	927621BEE019	CHITTRARASU G	G. Chittrarasu	G. Chittrarasu	G. Chittrarasu	G. Chittrarasu
20	927621BEE020	DEEPAK S	S. Deepak	S. Deepak	S. Deepak	S. Deepak
21	927621BEE021	DEEPAN G	G. Deepan	G. Deepan	G. Deepan	G. Deepan
22	927621BEE022	DEEPAN HENDRY R	R. Deepan Hendry	R. Deepan Hendry	R. Deepan Hendry	R. Deepan Hendry
23	927621BEE023	DEVADHARSHINI S	S. Devadharshini	S. Devadharshini	S. Devadharshini	S. Devadharshini
24	927621BEE024	DEVADHARSHINI S	S. Devadharshini	S. Devadharshini	S. Devadharshini	S. Devadharshini
25	927621BEE025	DHAKSHANAMOORTHY S	S. Dhakshanamoorthy	S. Dhakshanamoorthy	S. Dhakshanamoorthy	S. Dhakshanamoorthy
26	927621BEE026	DHANUSH V	V. Dhhanush	V. Dhhanush	V. Dhhanush	V. Dhhanush
27	927621BEE027	DHARANEESH V M	M. Dhharaneesh V	M. Dhharaneesh V	M. Dhharaneesh V	M. Dhharaneesh V
28	927621BEE028	DHARIKA SREE V	V. Dharika Sree	V. Dharika Sree	V. Dharika Sree	V. Dharika Sree
29	927621BEE029	DHARSHANA K	K. Dharsana	K. Dharsana	K. Dharsana	K. Dharsana
30	927621BEE030	DHARSHINE B	B. Dharsine	B. Dharsine	B. Dharsine	B. Dharsine
31	927621BEE031	DHARSHINI M	M. Dharshini	M. Dharshini	M. Dharshini	M. Dharshini
32	927621BEE032	DINESH S	S. Dinesh	S. Dinesh	S. Dinesh	S. Dinesh
33	927621BEE033	ELAKKIYA P	P. Elakkiya	P. Elakkiya	P. Elakkiya	P. Elakkiya
34	927621BEE034	ELANGO M	M. Elango	M. Elango	M. Elango	M. Elango
35	927621BEE035	GOBIKA P	P. Gobika	P. Gobika	P. Gobika	P. Gobika
36	927621BEE036	GOKUL M	M. Gokul	M. Gokul	M. Gokul	M. Gokul
37	927621BEE037	GOKULAKRISHNA K	K. Gokulakrishna	K. Gokulakrishna	K. Gokulakrishna	K. Gokulakrishna

38	927621BEE038	GOKULAPRIYA C	GokulPriya C	GokulPriya C	GokulPriya C	GokulPriya C
39	927621BEE039	GOPINATH D	Gopinath D.	Gopinath D.	Gopinath D.	Gopinath D.
40	927621BEE040	GOWTHAM V	Gowtham V.	Gowtham V.	Gowtham V.	Gowtham V.
41	927621BEE041	GOWTHAMAN K P	K.P. Gith	K.P. Gith	K.P. Gith	K.P. Gith
42	927621BEE042	HARI PRASATH L	h.l.p.s.	h.l.p.s.	h.l.p.s.	h.l.p.s.
43	927621BEE043	HARINI M	Harini M	Harini M	Harini M	Harini M
44	927621BEE044	HARINI P	Harini P.	Harini P.	Harini P.	Harini P.
45	927621BEE045	HARIPRASATH E	Hariprasath E	Hariprasath E	Hariprasath E	Hariprasath E
46	927621BEE046	HARISH K	Harish K	Harish K	Harish K	Harish K
47	927621BEE048	HEMA KAVIYAA M	Hemajoy M	Hemajoy M	Hemajoy M	Hemajoy M
48	927621BEE049	HEMACHANDRAN A	A. Hec	A. Hec	A. Hec	A. Hec
49	927621BEE050	JAGAN M	Jagan M	Jagan M	Jagan M	Jagan M
50	927621BEE051	JANANI S	Janani S	Janani S	Janani S	Janani S
51	927621BEE052	JANARTHANAN K	K. Jan	K. Jan	K. Jan	K. Jan
52	927621BEE053	JAYA VIGNESH N	Jay Vignesh N	Jay Vignesh N	Jay Vignesh N	Jay Vignesh N
53	927621BEE054	JAYASRI S	Jayasri S	Jayasri S	Jayasri S	Jayasri S
54	927621BEE056	KALAIMATHI R	R. Kalimath	R. Kalimath	R. Kalimath	R. Kalimath
55	927621BEE057	KAMALRAJ V R	Kamraj V.R.	Kamraj V.R.	Kamraj V.R.	Kamraj V.R.
56	927621BEE058	KANEESHKUMAR J	Kaneesh Kumar J	Kaneesh Kumar J	Kaneesh Kumar J	Kaneesh Kumar J
57	927621BEE059	KANIMOZHI S V	S.v. Kanimozhi	S.v. Kanimozhi	S.v. Kanimozhi	S.v. Kanimozhi

58	927621BEE060	KANISKA S	S. Kaniska..	S. Kaniska	S. Kaniska..	S. Kaniska..
59	927621BEE061	KARTHIK R	R. Karthik	R. Karthik	R. Karthik	R. Karthik
60	927621BEE062	KAVIN M R	MR. Kavim	MR. Kavim	MR. Kavim	MR. Kavim
61	927621BEE063	KAVIN N	N. Kavim	N. Kavim	N. Kavim	N. Kavim
62	927621BEE301	DHANUSH A	Dhanush A	Dhanush A	Dhanush A	Dhanush A
63	927621BEE302	JESUDOSS B	B. Jesudoss	B. Jesudoss	B. Jesudoss	B. Jesudoss
64	927621BEE303	MAHESHWARAN N	N. Maheshwaran	N. Maheshwaran	N. Maheshwaran	N. Maheshwaran
65	927621BEE304	MUKESH S	S. Mukesh	S. Mukesh	S. Mukesh	S. Mukesh
66	927621BEE305	NAMBI RAAJAN U C	U.C. Nambi	U.C. Nambi	U.C. Nambi	U.C. Nambi
67	927621BEE306	NAVEENA A	A. Naveena	A. Naveena	A. Naveena	A. Naveena
68	927621BEE307	PERANESH S	S. Peranesh	S. Peranesh	S. Peranesh	S. Peranesh

M. Lakshmanan
ONE CREDIT COURSE INCHARGE

Dr. M. Lakshmanan
ASPI/EEE

HOD/EEE

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Karur-639 113.



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Department of Electrical and Electronics Engineering

Academic Year 2022-2023 / EVEN Semester

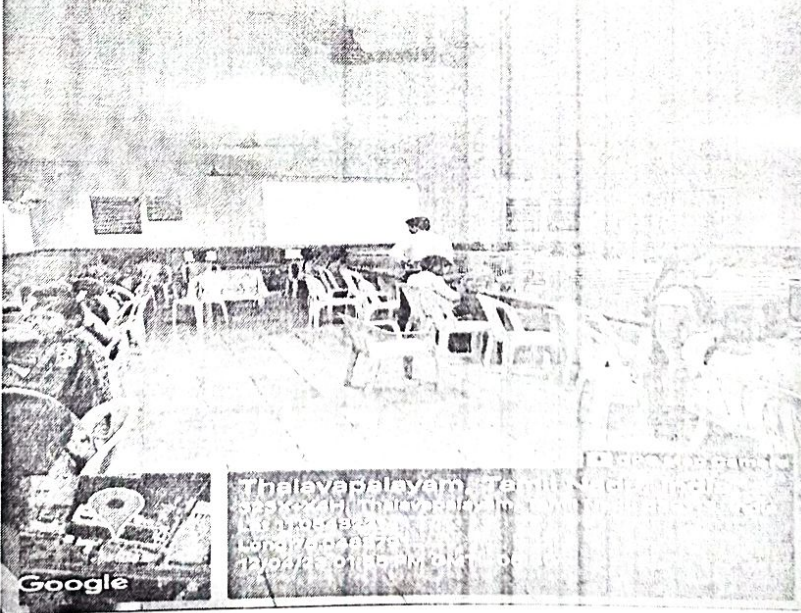
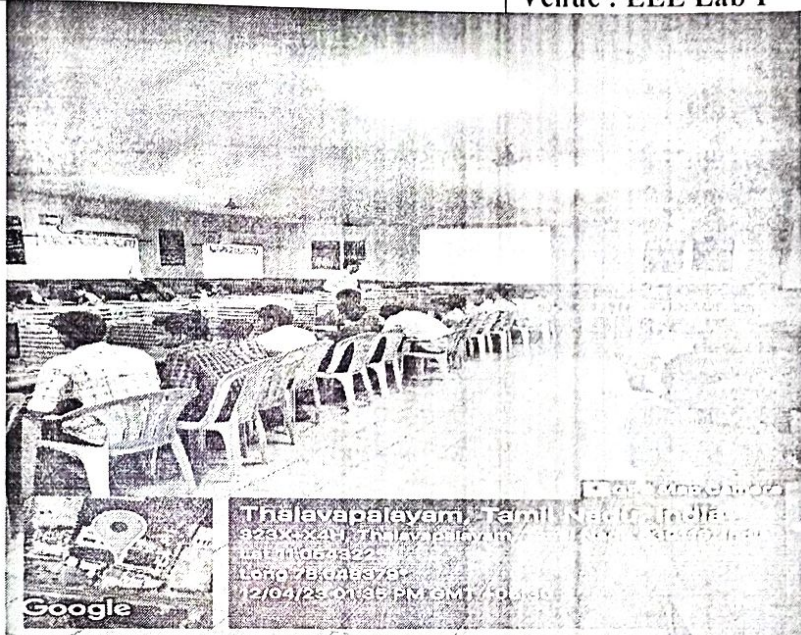
One Credit Course on "18EEX003J-PLC AND ITS APPLICATIONS "

II EEE A Section (2021-2025 batch)

Date : 12-04-2023 & 13-04-2023

Time : 8.40 am to 05.30 pm

Venue : EEE Lab 1



M. Lakshmi
 Faculty In charge

[Signature]
 HoD/EEE

Timestamp	Email (MKCE Mail ID)	Full Name* Enter your name in CAPS Roll No	Section	How would you rate the	Session contents met your	Was the lecture sequence	Level of the One Credit C.	The contents were clear	Any other suggestions.	Email Address
4/13/2023 16:28:57	927621bee014@mkce.ac	BHARATH S 927621BEE014	A	Good	Agree	Agree	Agree	Agree	No suggestions	
4/13/2023 16:30:50	927621bee040@mkce.ac	GOWTHAM V 927621BEE040	A	Good	Agree	Agree	Agree	Agree	No suggestions	
4/13/2023 16:34:07	927621bee003@mkce.ac	AJAY K 927621BEE003	A	Excellent	Agree	Strongly agree	Agree	Strongly agree	Nothing	
4/13/2023 16:46:56	927621bee019@mkce.ac	CHITTRARASU G 927621BEE019	A	Good	Agree	Agree	Strongly agree	Agree	Nothing	
4/13/2023 17:03:41	927621bee045@mkce.ac	HARIPRASATH E 927621BEE045	A	Excellent	Agree	Agree	Agree	Strongly agree	No	
4/13/2023 17:24:35	927621bee054@mkce.ac	JAYASRI S 927621BEE054	A	Excellent	Strongly agree	Strongly agree	Strongly agree	Strongly agree	Good	
4/13/2023 17:26:44	927621bee023@mkce.ac	DEVADHARSHINI S 927621BEE023	A	Good	Agree	Agree	Agree	Agree	Nothing	
4/13/2023 17:28:49	927621bee056@mkce.ac	KALAIMATHI R 927621BEE056	A	Excellent	Strongly agree	Strongly agree	Strongly agree	Strongly agree	No suggestions.	
4/13/2023 17:29:47	927621bee051@mkce.ac	JANANI S 927621BEE051	A	Excellent	Strongly agree	Strongly agree	Strongly agree	Strongly agree	No	
4/13/2023 17:31:09	anandnaveena15@gmail.com	A. NAVEENA 927621BEE306	A	Good	Agree	Agree	Strongly agree	Agree	No	
4/13/2023 17:31:11	927621bee059@mkce.ac	KANIMOZHI S V 927621BEE059	A	Excellent	Strongly agree	Strongly agree	Strongly agree	Agree	Kindly provide extra time for hands on training	
4/13/2023 17:33:44	927621bee060@mkce.ac	KANISKA S 927621BEE060	A	Good	Agree	Agree	Agree	Agree	No suggestion	
4/13/2023 17:34:57	927621bee029@mkce.ac	DHARSHANA K 927621BEE029	A	Good	Strongly agree	Agree	Agree	Agree	Nothing	
4/13/2023 17:35:22	927621bee007@mkce.ac	ARCHANA J 927621BEE007	A	Good	Agree	Agree	Agree	Agree	We required some material	
4/13/2023 17:35:24	927621bee017@mkce.ac	CARMEL JENIFER I W 927621BEE017	A	Good	Agree	Agree	Agree	Agree	We required some material for development	
4/13/2023 17:36:59	nambirajanuc@gmail.com	NAMBI RAJAN U C 927621bee305	A	Excellent	Strongly agree	Strongly agree	Strongly agree	Strongly agree	Very good session to learn	
4/13/2023 17:37:12	927621bee048@mkce.ac	Hema kavivaa. M 927621BEE048	A	Excellent	Agree	Agree	Strongly agree	Strongly agree	Very good teaching	
4/13/2023 17:38:14	927621bee032@mkce.ac	DINESH S 927621BEE032	A	Good	Agree	Agree	Strongly agree	Agree	No	
4/13/2023 17:45:44	927621bee057@mkce.ac	KAMALRAJ V R 927621BEE057	A	Good	Agree	Agree	Agree	Agree	Need extra programs	
4/13/2023 17:45:47	927621bee034@mkce.ac	ELANGO M 927621BEE034	A	Excellent	Agree	Strongly agree	Strongly agree	Strongly agree	Nothing	
4/13/2023 18:04:45	927621bee031@mkce.ac	DHARSHINI M 927621BEE031	A	Excellent	Strongly agree	Strongly agree	Strongly agree	Strongly agree	No	
4/13/2023 18:06:32	927621bee009@mkce.ac	ARIVARASU D 927621BEE009	A	Excellent	Strongly agree	Strongly agree	Strongly agree	Strongly agree	Nothing	
4/13/2023 18:32:00	927621bee015@mkce.ac	BHARATHI S 927621bee015	A	Excellent	Strongly agree	Strongly agree	Strongly agree	Strongly agree	very useful	
4/13/2023 18:57:22	927621bee027@mkce.ac	DHARANEESH V M 927621BEE027	A	Excellent	Strongly agree	Strongly agree	Strongly agree	Strongly agree	Good	
4/13/2023 19:14:20	927621bee006@mkce.ac	ANCHANA B 927621BEE006	A	Excellent	Strongly agree	Strongly agree	Strongly agree	Strongly agree	No	
4/13/2023 19:15:41	927621bee036@mkce.ac	GOKUL M 927621bee036	A	Excellent	Strongly agree	Strongly agree	Strongly agree	Strongly agree	No it's very useful	
4/13/2023 19:26:47	927621bee050@gmail.com	JAGAN.M 927621BEE050	A	Excellent	Strongly agree	Strongly agree	Strongly agree	Strongly agree	NO	
4/13/2023 19:45:35	927621bee008@mkce.ac	ARIHARAN M 927621BEE008	A	Good	Agree	Agree	Strongly agree	Strongly agree	NOTHING	
4/13/2023 19:46:56	927621bee035@mkce.ac	GOBIKA P 927621BEE035	A	Good	Agree	Agree	Agree	Agree	No more of suggestions	
4/13/2023 20:50:22	927621bee044@mkce.ac	HARINI P 927621BEE044	A	Excellent	Strongly agree	Strongly agree	Strongly agree	Agree	Lab sessions are more effective	
4/13/2023 21:08:10	927621bee013@mkce.ac	BARATHKUMAR R 927621BEE013	A	Average	Agree	Neutral	Neutral	Neutral	Implementation in system is good	
4/13/2023 21:16:12	927621bee037@mkce.ac	GOKULAKRISHNA K 927621bee037	2nd year EEE - A	Good	Agree	Agree	Agree	Agree	No	
4/13/2023 21:17:31	927621bee028@mkce.ac	DHARIKA SREE V 927621BEE028	A	Good	Agree	Strongly agree	Strongly agree	Strongly agree	No	
4/13/2023 22:29:49	927621BEE049@mkce.ac	HEMACHANDRAN. A 927621BEE049	A	Excellent	Strongly agree	Agree	Agree	Agree	Instructional planning to improve	
4/14/2023 7:03:22	927621bee042@mkce.ac	HARI PRASATH L 927621BEE042	A	Excellent	Strongly agree	Strongly agree	Strongly agree	Strongly agree	Nothing...	
4/14/2023 7:36:15	927621bee030@mkce.ac	DHARSHINE B 927621BEE030	A	Good	Agree	Agree	Agree	Agree	-	
4/14/2023 7:45:18	927621bee022@mkce.ac	DEEPA HENDRY R 927621BEE022	A	Good	Agree	Agree	Agree	Agree	none	
4/14/2023 9:53:37	927621bee001@mkce.ac	ABISHEK J S 927621BEE001	A	Excellent	Strongly agree	Strongly agree	Strongly agree	Strongly agree	GOOD BUT IT WOULD BE NICE WHEN WE HAVE EXTRA CLASS	
4/14/2023 22:31:32	peraneshiva@gmail.com	PERANESH S 928621BEE307	A	Good	Agree	Agree	Agree	Agree	Nil	
4/15/2023 12:11:36	927621bee058@mkce.ac	KANEESHKUMAR J 927621bee058	A	Good	Agree	Agree	Strongly agree	Agree	no	
4/18/2023 20:27:37	927621bee055@mkce.ac	JAYA VIGNESH. N 927621BEE055	A	Good	Agree	Agree	Agree	Agree	No	



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR (2022-2023) – EVEN SEMESTER

ONE CREDIT COURSE

18EEX004J – INTERNET OF THINGS FOR ROBOTICS

Year/Sem/Class	II/IV – ‘B’ Section
Batch	2020-2024
Faculty Trainer	Dr. B. Ezhilavan, VEI Technologies, Chennai
Faculty Incharge	Mrs. G.Bharani, Assistant Professor/EEE
Course Duration	Two Days (12-04-2023 to 13-04-2023)
Number of students attended the course	67



Regulation 2018		One Credit course	Total Hours			15									
Category	Course Code	Course Name	Hours / Week			C									
			L	T	P										
X	18EEX004J	IOT FOR ROBOTICS	1	0	2	1									
Prerequisite Course (s)															
Programming for Problem Solving, Digital Electronics															
Course Objective (s): The purpose of learning this course is to:															
1	Build a programming skill in IoT														
2	Acquire skill to interface IoT with robotics hardware														
Course Outcome (s) (COs): At the end of this course, learners will be able to:															
CO1	Develop the programme in IoT for robotics application.														
CO2	Model water feeding robot, fire fighting robot, autonomous driving car robot pick and place robot, industrial conveyor robot.														
CO-PO Mapping															
Cos	POs												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	1	1	1	1	1	1	1	3	3	2	2	1
CO2	3	3	2	1	1	1	1	1	1	1	3	3	2	2	1
CO (Avg)	3	3	2	1	1	1	1	1	1	1	3	3	2	2	1

1: Slight (Low)

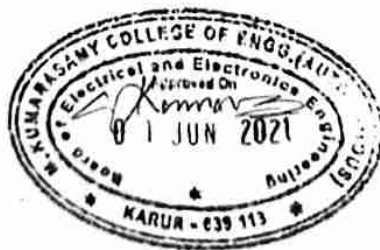
2: Moderate (Medium)

3: Substantial (High)





MODULE I	5
Introduction to robotics- Basics about Embedded system and Microcontrollers-Software and Hardware system -Embedded c program -Variable declaration-Operators -Conditions -Loops-Functions-Pointers-Batteries for Robot-Power -supply circuit (AC-DC 12V and 5V)- Arduino uno ide installation- Arduino uno board first program and its applications.	
MODULE II	5
Interfacings- Analog sensor, Digital sensor, Relay,LCD,L293 Motor driver, Water pump, Ultrasonic, IR Sensor, PIR sensor, Fire sensor ,Bluetooth, RF control, Proteus design-Robot designs-2 Wheel robot, 4 Wheel robot, Robot hand, Pick and Place robot, Visual Robots, Python basics (Only for Robotic application), Opencv basics, Color Segmentation, Human detection, Object detection.	
MODULE III	5
Water feeding robot, Fire Fighting Robot, Autonomous Driving car robot, Pick and place robot , Industrial Conveyor robot	
Reference (s)	
1	Thomas R. Kurfess ,“Robotics and Automation Handbook” , CRC PRESS Boca Raton London New York Washington, D.C.
2	Nitin Goyal, Sharad Sharma, Arun Kumar Rana, Suman Lata Tripathi, “ Internet of Things, Robotic and Drone Technology”, First edition, by CRC Press.
3	K C Raveendranathan, “Future directions: IoT, robotics and AI based applications”, Published November 2019 IOP Publishing Ltd 2020, Pages 15-1 to 15-24.



PROFILE

Dr.B.Ezhilavan,
Managing Director,
VEI Technologies Pvt.Ltd,
Chennai.
Contact No: +91 90037 85766



EDUCATION:

Doctorate- Mr.B.Ezhilavan (VEI Technologies) was awarded with a doctorate by GLOBAL PEACE UNIVERSITY (GAF, USA) on 2nd Oct 2018 for doing enormous social activities by VEI Technologies during the period of 2012 -2018

PG- MBA (HR and marketing)- I obtained my MBA in Annamalai University at Chidambaram during the year 2012-14

UG- BE (CSE) - I completed my B.E in CSE department in Adhiparasakthi Engineering College at Melmaruvathur during the year 2006-2010.

About VEI TECHNOLOGIES

VEI TECHNOLOGIES provide a broad range of IT consulting, web applications and outsourcing services through an optimized technique. It focuses on delivering business solution by modernizing, consolidating the critical applications that support our clients business processes. We serve industry leaders as they need to improve their customers experience, expand market reach, and improve time to market and lower costs through optimized global delivery model. We have highly professional and dedicated workers. They ensure timely completion of our projects.



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

*Cordially invites you all for One Credit Course
on*

“IOT FOR ROBOTICS”

Resource Person



Dr. B. Ezhilavan
Founder & CEO
VEI technologies PVT.LTD,
Chennai.

Venue: APJ Block, EEE Lab-1

Date: 12.04.2023 & 13.04.2023

Timing: 8.40AM – 4.40PM

Dr.K.Ramakrishnan
Secretary

Dr.S.Kuppusamy
Executive Director

Dr. B.S.Murugan
Principal

Dr.J.Uma
HoD/EEE

Mrs. G.Bharani
One Credit course
In-charge



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
BATCH : 2021-2025
ACADEMIC YEAR : 2022-2023 (EVEN SEMESTER)
ONE CREDIT COURSE

TITLE: Internet of Things for Robotics
SUBJECT Code: 18EE004J

YEAR / SEMESTER / SECTION : II / IV / B

S.No	Roll No	Student Name
1	927621BEE064	KAVINRAJA G
2	927621BEE065	KAVISHVARAN K
3	927621BEE066	KEERTHIESWAR V
4	927621BEE067	KEERTHIVARMAN AB
5	927621BEE068	KISHOREKUMAR N
6	927621BEE069	KOUSHIK N
7	927621BEE070	LOGESH R
8	927621BEE071	MAHENDRAN K
9	927621BEE072	MANISH B
10	927621BEE073	MANJURAGAVI R
11	927621BEE074	MARI SURJITH S
12	927621BEE075	MEGANATHAN P
13	927621BEE076	MOHAMMED AKRAM A
14	927621BEE077	MOHAN PRASATH M
15	927621BEE078	NANDHAKUMAR M
16	927621BEE079	NANDHINI P
17	927621BEE080	NATHIYA S
18	927621BEE081	NAVEEN S
19	927621BEE082	NAVEEN S
20	927621BEE083	NAVEENKUMAR P
21	927621BEE084	NIVASS S
22	927621BEE085	NIVETHA M
23	927621BEE086	NIVITHA A
24	927621BEE087	POOVARASAN R
25	927621BEE088	PRANAV K
26	927621BEE089	PRASANNA VENKATESH M P
27	927621BEE090	PRATHISHA A
28	927621BEE091	RAGAVI R
29	927621BEE092	RAGUL S
30	927621BEE093	RAGUPATHI K
31	927621BEE094	RAJESH S
32	927621BEE095	RAJESH T
33	927621BEE096	RAMAMANI V

34	927621BEE097	RAMKUMAR D
35	927621BEE098	REETHIKA G
36	927621BEE099	ROSHAN RUBAG R S
37	927621BEE100	SAJITHA G
38	927621BEE101	S.SAMEERA SARA
39	927621BEE102	SANTHOSH C
40	927621BEE103	SANTHOSH KUMAR B
41	927621BEE104	SARAN S
42	927621BEE105	SARANYA K
43	927621BEE106	SARATHI M
44	927621BEE107	SARVESHWARAN L V
45	927621BEE108	SELVABHARATHI S
46	927621BEE109	SELVAKARTHICK M
47	927621BEE110	SENIYA DEVI A
48	927621BEE111	SHARAN R
49	927621BEE112	SHIVA KISHNU S
50	927621BEE113	SIBIRAJ M
51	927621BEE114	SREE VAISHNAVI M
52	927621BEE115	SRI VIGNESH C
53	927621BEE116	SRIKANTH V
54	927621BEE117	SRINITHI R
55	927621BEE118	SUDHARSAN S
56	927621BEE119	SUDHESH BALAN V
57	927621BEE120	SULOCHINI S
58	927621BEE121	SURYA R
59	927621BEE122	SUSHMITHAA M
60	927621BEE123	TAMIL SELVA ANTO K
61	927621BEE124	TAMILMANI S
62	927621BEE125	VENGATESH PRABHU P
63	927621BEE126	VIJAY HARISH G S
64	927621BEE308	SANTHOSH C
65	927621BEE310	SRI SABAREESWARAN V
66	927621BEE311	SUDHAKARAN T
67	927621BEE312	VISHWESHWAR P


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COURSE INCHARGE


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

BATCH : 2021-2025

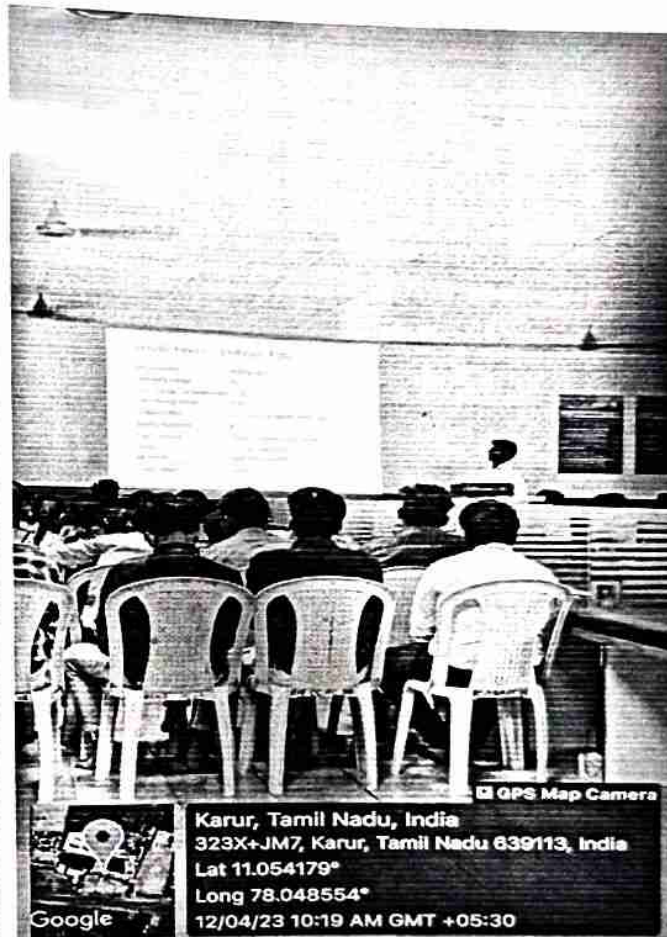
ACADEMIC YEAR : 2022-2023 (EVEN SEMESTER)

ONE CREDIT COURSE

TITLE: Internet of Things for Robotics

SUBJECT Code: 18EE004J

YEAR / SEMESTER / SECTION : II / IV / B



SB
**ONE CREDIT
COURSE
INCHARGE**

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Karur-639 113.



TITLE: IOT for Robotics

YEAR / SEMESTER / SECTION : II / IV / B

S.No	Roll No	Student Name	12.04.2023		13.04.2023	
			FN	AN	FN	FN
1	927621BEE064	KAVINRAJA G	G.K.V	G.K.V	G.K.V	G.K.V
2	927621BEE065	KAVISHVARAN K	K.Kavishvaran	K.Kavishvaran	K.Kavishvaran	K.Kavishvaran
3	927621BEE066	KEERTHIESWAR V	V.K	V.K	V.K	V.K
4	927621BEE067	KEERTHIVARMAN AB	AB.Karthiyan	AB.Karthiyan	AB.Karthiyan	AB.Karthiyan
5	927621BEE068	KISHOREKUMAR N	N.Kishore	N.Kishore	N.Kishore	N.Kishore
6	927621BEE069	KOUSHIK N	N.Koushik	N.Koushik	N.Koushik	N.Koushik
7	927621BEE070	LOGESH R	R.Logesh	R.Logesh	R.Logesh	R.Logesh
8	927621BEE071	MAHENDRAN K	K.Mahendran	K.Mahendran	K.Mahendran	K.Mahendran
9	927621BEE072	MANISH B	B.Manish	B.Manish	B.Manish	B.Manish
10	927621BEE073	MANJURAGAVI R	R.Manjura	R.Manjura	R.Manjura	R.Manjura
11	927621BEE074	MARI SURJITH S	S.Mari	S.Mari	S.Mari	S.Mari
12	927621BEE075	MEGANATHAN P	P.Megarithan	P.Megarithan	P.Megarithan	P.Megarithan
13	927621BEE076	MOHAMMED AKRAM A	A.Akram	A.Akram	A.Akram	A.Akram
14	927621BEE077	MOHAN PRASATH M	M.Prasath	M.Prasath	M.Prasath	M.Prasath
15	927621BEE078	NANDHAKUMAR M	M.Nandha	M.Nandha	M.Nandha	M.Nandha
16	927621BEE079	NANDHINI P	P.Nandhini	P.Nandhini	P.Nandhini	P.Nandhini
17	927621BEE080	NATHIYA S	S.Nathiya	S.Nathiya	S.Nathiya	S.Nathiya
18	927621BEE081	NAVEEN S	S.Naveen	S.Naveen	S.Naveen	S.Naveen
19	927621BEE082	NAVEEN S	S.Naveen	S.Naveen	S.Naveen	S.Naveen
20	927621BEE083	NAVEENKUMAR P	P.Naveen	P.Naveen	P.Naveen	P.Naveen
21	927621BEE084	NIVASS S	S.Nivass	S.Nivass	S.Nivass	S.Nivass
22	927621BEE085	NIVETHA M	M.Nivetha	M.Nivetha	M.Nivetha	M.Nivetha
23	927621BEE086	NIVITHA A	A.Nivitha	A.Nivitha	A.Nivitha	A.Nivitha
24	927621BEE087	POOVARASAN R	R.Poo	R.Poo	R.Poo	R.Poo
25	927621BEE088	PRANAV K	K.Pranav	K.Pranav	K.Pranav	K.Pranav
26	927621BEE089	PRASANNA VENKATESH M P	M.P.Prasanna	M.P.Prasanna	M.P.Prasanna	M.P.Prasanna
27	927621BEE090	PRATHISHA A	A.Prathisha	A.Prathisha	A.Prathisha	A.Prathisha
28	927621BEE091	RAGAVI R	R.Ragavi	R.Ragavi	R.Ragavi	R.Ragavi
29	927621BEE092	RAGUL S	S.Ragul	S.Ragul	S.Ragul	S.Ragul
30	927621BEE093	RAGUPATHI K	K.Ragu	K.Ragu	K.Ragu	K.Ragu

31	927621BEE094	RAJESH S	S.P. Rajesh	S.P. Rajesh	S.P. Rajesh	S.P. Rajesh
32	927621BEE095	RAJESH T	T. Rajesh	T. Rajesh	T. Rajesh	T. Rajesh
33	927621BEE096	RAMAMANI V	R. Mani	R. Mani	R. Mani	R. Mani
34	927621BEE097	RAMKUMAR D	D. Ramkumar	D. Ramkumar	D. Ramkumar	D. Ramkumar
35	927621BEE098	REETHIKA G	G. Reethika	G. Reethika	G. Reethika	G. Reethika
36	927621BEE099	ROSHAN RUBAG R S	R. Roshan	R. Roshan	R. Roshan	R. Roshan
37	927621BEE100	SAJITHA G	G. Sajitha	G. Sajitha	G. Sajitha	G. Sajitha
38	927621BEE101	S SAMEERA SAKA	S. Sameera	S. Sameera	S. Sameera	S. Sameera
39	927621BEE102	SANTHOSH C	C. Santhosh	C. Santhosh	C. Santhosh	C. Santhosh
40	927621BEE103	SANTHOSH KUMAR B	B. Santhosh	B. Santhosh	B. Santhosh	B. Santhosh
41	927621BEE104	SARAN S	S. Saran	S. Saran	S. Saran	S. Saran
42	927621BEE105	SARANYA K	K. Saranya	K. Saranya	K. Saranya	K. Saranya
43	927621BEE106	SARATHI M	M. Sarathi	M. Sarathi	M. Sarathi	M. Sarathi
44	927621BEE107	SARVESHWARAN L V	L. Sarvesh	L. Sarvesh	L. Sarvesh	L. Sarvesh
45	927621BEE108	SELVABHARATHI S	S. Selva	S. Selva	S. Selva	S. Selva
46	927621BEE109	SELVAKARTHICK M	M. Selva	M. Selva	M. Selva	M. Selva
47	927621BEE110	SENIYA DEVI A	A. Seniya	A. Seniya	A. Seniya	A. Seniya
48	927621BEE111	SHARAN R	R. Sharan	R. Sharan	R. Sharan	R. Sharan
49	927621BEE112	SHIVA KISHNU S	S. Shiva	S. Shiva	S. Shiva	S. Shiva
50	927621BEE113	SIBIRAJ M	M. Sibiraj	M. Sibiraj	M. Sibiraj	M. Sibiraj
51	927621BEE114	SREE VAISHNAVI M	M. Vaishna	M. Vaishna	M. Vaishna	M. Vaishna
52	927621BEE115	SRI VIGNESH C	C. Sri	C. Sri	C. Sri	C. Sri
53	927621BEE116	SRIKANTH V	V. Sri	V. Sri	V. Sri	V. Sri
54	927621BEE117	SRINITHI R	R. Sri	R. Sri	R. Sri	R. Sri
55	927621BEE118	SUDHARSAN S	S. Sudhar	S. Sudhar	S. Sudhar	S. Sudhar
56	927621BEE119	SUDHESH BALAN V	V. Sudhes	V. Sudhes	V. Sudhes	V. Sudhes
57	927621BEE120	SULOCHINI S	S. Sulochi	S. Sulochi	S. Sulochi	S. Sulochi
58	927621BEE121	SURYA R	R. Surya	R. Surya	R. Surya	R. Surya
59	927621BEE122	SUSHMITHAA M	M. Sushmi	M. Sushmi	M. Sushmi	M. Sushmi
60	927621BEE123	TAMIL SELVA ANTO K	K. Tamil	K. Tamil	K. Tamil	K. Tamil
61	927621BEE124	TAMILMANI S	S. Tamil	S. Tamil	S. Tamil	S. Tamil
62	927621BEE125	VENGATESH PRABHU P	P. Vengate	P. Vengate	P. Vengate	P. Vengate
63	927621BEE126	VIJAY HARISH G S	S. Vijay	S. Vijay	S. Vijay	S. Vijay
64	927621BEE308	SANTHOSH C	C. Santho	C. Santho	C. Santho	C. Santho
65	927621BEE309	SANTHOSH D	D. Santho	D. Santho	D. Santho	D. Santho
66	927621BEE310	SRI SABAREESWARAN V	V. Sabare	V. Sabare	V. Sabare	V. Sabare
67	927621BEE311	SUDHAKARAN T	T. Sudhaka	T. Sudhaka	T. Sudhaka	T. Sudhaka
68	927621BEE312	VISHWESHWAR P	P. Vishwes	P. Vishwes	P. Vishwes	P. Vishwes

ONE CREDIT COURSE IN CHARGE

HOD/EEE
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M.KUMARASAMY
COLLEGE OF ENGINEERING

VAAAC Accredited Autonomous Institution
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

II YEAR/ IVSEM

18EEX004J - IOT FOR ROBOTICS


ASSIGNMENT - I (2022-2023)-EVEN SEM

S.NO	TOPICS	CO	Knowledge Level	SUBMISSION FORMAT
1	Develop a code for interfacing Servomotor with Arduino UNO.	CO1	K4	Hand Written

ASSIGNMENT - II (2022-2023)-EVEN SEM

S.NO	TOPICS	CO	Knowledge Level	SUBMISSION FORMAT
1	Develop an interfacing code for Ultrasonic sensor for Robotics.	CO2	K4	Hand Written


Faculty In charge Signature


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Dept. of Electrical & Electronics Engg.
M. Kumarasamy College Of Engineering
Karur-639 113.

18EEX004J - IOT FOR ROBOTICS

IOT for Robotics - Assessment 2 (Online Quiz)

* Indicates required question

1. Email *

2. Roll Number *

3. Name in Capital Letters (Initial at Last) *

4. What is the full form of IoT? *

1 point

Mark only one oval.

- Internet of Things
- Idea of Things
- Integration of Things
- Institute of Things

5. Which sensor should one prefer for accurate measurement of distance upto 1 meter? *

1 point

Mark only one oval.

- Ultrasonic Sensor
- Infrared Sensor
- PIR Sensor
- Photo Resistor Sensor

9. Flipkart is looking at robotics to improve efficiency in *

1 point

Mark only one oval.

- production
- delivery
- warehouses
- none of the above

10. _____ refers to software for connecting two application layers. *

1 point

Mark only one oval.

- Gateway
- Layers
- Domain
- Header

11. _____ layer refers to a layer for transmitting or receiving the data bits of an application. *

1 point

Mark only one oval.

- Application
- Physical
- Transport
- Data link

12. What is Mango? *

1 point

Mark only one oval.

- Open source M2M web based software.
- Development tool
- communication framework
- Application domain

6. what is NFC ? *

1 point

Mark only one oval.

- NFC is a short distance(20m) wireless communication technology.
- NFC is an enhancement of ISO/IEC14443 standard .
- Both (A) and (B)
- cannot say

7. The automation of communication between devices, with no human intervention.

* 1 point

Mark only one oval.

- Sensor
- Machine to Machine (M2M)
- Big Data
- Wearables

8. What is a Smart Factory? *

1 point

Mark only one oval.

- Robots who will replace people?
- Factories and logistic systems that will operate and organise themselves without human interaction.
- Factories and logistic systems that will organise themselves by human interaction.
- All of the above

13. What is ThingSpeak ? *

Mark only one oval.

- It is an open data platform with an open API.
- It can process HTTP requests and store and process data.
- It support to MATLAB data analytics.
- All of the above

14. _____ robot allows a programmer to teach robot paths and positions.

Mark only one oval.

- Self monitored stop
- Speed and separation monitoring
- Power and force limiting
- Hand guiding

15. L293D is a / an *

Mark only one oval.

- Motor Driver IC
- Micro Controller
- Bluetooth Module
- IR Receiver / Transmitter

16. Which possibility automatically communicates with other vehicles? *

Mark only one oval.

- Transportation and logistics
- Energy and utilities
- Automotive

17. What is the name for information sent from robot sensors to robot controllers? * 1 point

Mark only one oval.

- Signal
- Feedback
- Pressure
- Control

18. Which of the following terms is not one of the five basic parts of a robot? * 1 point

Mark only one oval.

- Drive
- Controller
- End Effectors
- Peripheral Tools

19. Which of the following is not a type of robot locomotion? * 1 point

Mark only one oval.

- Legged
- Wheeled
- Tracked deslip
- Tracked skid

20. What is true about robots? * 1 point

Mark only one oval.

- They operate in real physical world
- Inputs to robots is analog signal in the form of speech waveform or images
- They need special hardware with sensors and effectors
- All of the above.

21. If a robot can change its own trajectory in response to external conditions, we can say it? * 1 point

Mark only one oval.

- Open Loop
- Mobile
- Intelligent
- Non - Servo

22. Which of the basic parts of a robot unit would include the computer circuitry that could be programmed to determine what the robot would do? * 1 point

Mark only one oval.

- Sensor
- Controller
- arm
- end effector

23. Robotics is a branch of AI, which is composed of * 1 point

Mark only one oval.

- Electrical Engineering
- Mechanical Engineering
- Computer Science Engineering
- All of the above

⇒ One Credit feedback
⇒ assignment
⇒ Syllabus
⇒ E-zhilalavan
⇒ Photo pass

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
 BATCH : 2021-2025**

ACADEMIC YEAR : 2022-2023 (EVEN SEMESTER)

ONE CREDIT COURSE

ONLINE ASSESSMENT SCORE

**TITLE: Internet of Things for Robotics
 SUBJECT Code: 18EE004J**

YEAR / SEMESTER / SECTION : II / IV / B

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5	927621bee091	RAGAVI R	927621bee091@mkce.ac.in	15 / 20
6	927621bee080	NATHIYA.S	927621bee080@mkce.ac.in	19 / 20
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18	927621BEE096	RAMAMANI V	927621bee096@mkce.ac.in	14 / 20
19	927621BEE095	RAJESH T	927621bee095@mkce.ac.in	16 / 20
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21	927621bee310	SRI SABAREESWARAN V	srisabareeswaranv@gmail.com	15 / 20
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43	927621bee311	SUDHAKARAN T	927621bee311@mkce.ac.in	19 / 20
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47	927621BEE103	SANTHOSH KUMAR B	927621bee103@mkce.ac.in	19 / 20
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51	927621BEE076	MOHAMMED AKRAM. A	927621bee076@mkce.ac.in	19 / 20
52	927621BEE122	SUSHMITHAA.M	927621bee122@mkce.ac.in	19 / 20
53	927621BEE101	SANTHOSH C	santhoshchandrasedkaran5@gmail.com	15 / 20
54	927621BEE126	VIJAY HARISH G.S	gsvijayharish@gmail.com	15 / 20
55	927621bee094	RAJESH S	927621bee094@mkce.ac.in	19 / 20
56	927621BEE092	RAGUL S	927621bee092@mkce.ac.in	19 / 20
57	927621BEE117	SRINITHI R	927621BEE117@mkce.ac.in	19 / 20
58	927621BEE099	ROSHAN RUBAG R S	roshanrubag@gmail.com	9 / 20
59	927621BEE115	SRI VIGNESH C	927621bee115@mkce.ac.in	19 / 20
60	927621bee064	G.KAVINRAJA	krkavinraja2003@gmail.com	13 / 20
61	927621BEE078	NANDHAKUMAR M	nandhakumar18082004@gmail.com	13 / 20
62	927621BEE105	SARANYA K	saranyark2003@gmail.com	19 / 20
63	927621BEE071	MAHENDRAN K	927621bee071@mkce.ac.in	15 / 20
64	927621BEE123	Tamil Selva Anto K	927621bee123@mkce.ac.in	19 / 20
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ONE CREDIT COURSE INCHARGE

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HEAD OF THE DEPARTMENT
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Karur-639 113.

DEPARTMENT OF ELECTRICAL AND
ELECTRONICS ENGINEERING

ONE CREDIT COURSE

SUBJECT CODE : 18EEEX004J

IOT FOR ROBOTICS

II YEAR / IV SEMESTER

SUBMITTED BY :

RAGUL.S

927621BEE092

EEE - B

1) Develop a code for interfacing servomotor with Arduino UNO:

```
int servo1 ;  
int servo2 ;  
int position = 0 ;
```

```
void setup ()
```

```
{
```

```
servo1. attach (3) ;
```

```
servo2. attach (5) ;
```

```
}
```

```
void loop ()
```

```
{
```

```
for (position = 0 ; position <= 180 ; position ++)
```

```
{  
servo1. write (position) ;
```

```
delay (10) ;
```

```
}
```

```
for (position = 180 ; position >= 0 ; position --)
```

```
{  
servo1. write (position) ;
```

```
delay (15) ;
```

```
}
```

```
for (position = 0 ; position <= 180 ; position ++)
```

```
{  
servo2. write (position) ;
```

```
delay (10) ;
```

```
}
```

```
for (position = 180 ; position >= 0 ; position --)
```

```
{  
servo2. write (position) ;
```

```
delay (10) ;
```

```
}
```

```
}
```

2) Develop the interfacing code for ultrasonic sensor for robotics.

```
int trig pin = 9 ;
```

```
int echo pin = 10 ;
```

```
int led = 7 ;
```

```
void setup () {
```

```
    Serial.begin (9600) ;
```

```
    pinMode (led, output) ;
```

```
    pinMode (trig pin, output) ;
```

```
    pinMode (echo pin, Input) ;
```

```
}
```

```
void loop () {
```

```
    long duration, distance ;
```

```
    digitalWrite (trig pin, HIGH) ;
```

```
    delay Microseconds (1000) ;
```

```
    digitalWrite (trig pin, LOW) ;
```

```
    delay Microseconds (1000) ;
```

```
    duration = pulse In (echo pin, HIGH) ;
```

```
    distance = (duration / 2) / 29.1 ;
```

```
    Serial.print (distance) ;
```

```
    Serial.println ("cm")
```

```
    delay (10) ;
```

```
if (distance <= 10)
```

```
{
```

```
    digitalWrite (led, HIGH) ;
```

```
}
```

```
else if (distance > 10)
```

```
{
```

```
    digitalWrite (led, LOW) ;
```

```
}
```

```
}
```


3) Summarize the working principle of proximity sensors with suitable diagram along with its characteristics.

Working Principle :

High frequency oscillation type, capacitive type, induction bridge type, permanent magnet type and Hall effect type. for eg; are all types of proximity sensors.

High frequency oscillation utilizing electromagnetic type using magnets and capacitive type using capacitive charge.

Universal type : mainly detect ferrous metal (iron)

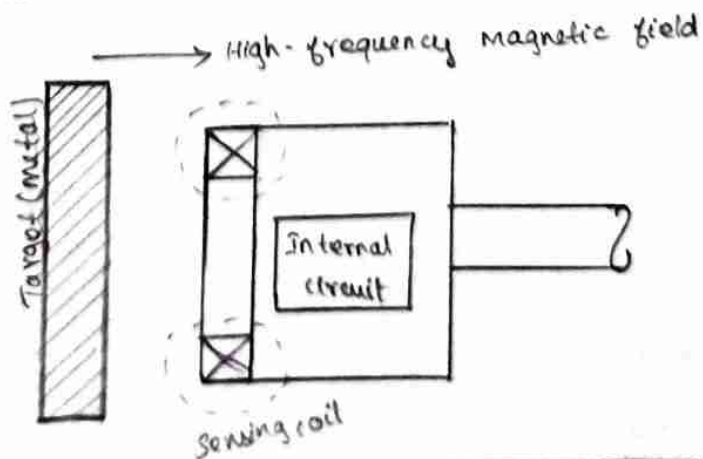
All metal type : detects any metal within the same detection distance.

Non ferrous metal type : mainly detect non ferrous metal such as aluminium.

According to structure type :

The two wire proximity sensor is simple to install and connect, it is extensively used, but it suffers from high residual voltage and leakage current.

It detects magnetic loss due to eddy current that are generated on a conductive surface by an external magnetic field.



A high frequency magnetic field is generated by coil L in the oscillation circuit. When a target approaches the magnetic field, induction current (eddy current) flows in the target due to electromagnetic induction. As the target approaches the sensor, the induction current flow increases, which causes the load on the oscillation circuit to increase. Then, oscillation attenuates or stops, the sensor detects this change in oscillation status with the amplitude detecting circuit, and outputs with a detection signal.

Characteristics of Proximity Sensor:

i) Non-contact detection. Unlike a limit switch, it detects an object without any mechanical contact.

ii) Usable in severe environment. Reliable sensing is possible even in adverse conditions where it can come in contact with water, etc.,

iii) High precision

iv) Short response time

v) Long life.

One Credit Course.

Name: T. Sudhakaran.

Reg NO: 927621BEE311

Year/Sem: ii / iv

Branch: EEE

Sec: 'B'

Sub Code: 18EEK004J

Title: IOT For Robotics.

1. Develop a code of interfacing servo motor with arduino uno:-

```

int Servo1;
int Servo2;
int position = 0;
void setup()
{
  servo attach(3);
  Servo: attach(5);
}
void loop
{
  for (position = 0; position <= 180; position +=1)
  {
    Servo1, write (position);
    delay (10);
  }
  for (position = 180; position >= 0; position --)
  {
    Servo 1, write (position);
    delay (15);
  }
  for (position = 0; position <= 180; position +=1)
  {
    Servo 2, write (position);
    delay (10);
  }
  for (position = 180; position >= 0; position --)
  {
    Servo 2, write (position);
    delay (10);
  }
}

```


else if (distance > 10)

```
{  
  digital write (led, low);  
}
```

```
}
```

2. Develop the interfacing code for ultrasonic sensor for robotics.

```
int trigpin = 9;
int echopin = 10;
int led = 7;
void setup () {
  serial.begin(9600);
  pinMode (led, output);
  pinMode (trigpin, output);
  pinMode (echopin, Input);
}
void loop () {
  digitalWrite (trigpin, HIGH);
  delay microseconds (1000);
  digitalWrite (trigpin, LOW);
  delay microseconds (1000);
  duration = pulseIn (echopin, HIGH);
  distance = (duration / 2) / 29.1;
  Serial.print (distance);
  Serial.println ("cm");
  delay (10);
  if ((distance <= 10))
  {
    digitalWrite (led, HIGH);
  }
}
```


Summarize the working principle of proximity sensor with suitable diagram along with its characteristics.

Working Principle:

High frequency oscillation type, capacitive type, induction bridge type, permanent magnet type and Hall effect type for ex: are all types of Proximity sensor.

High frequency oscillation utilizing electromagnetic type using magnets, and capacitive type using capacitive change.

universal type: mainly detect ferrous metal (iron).

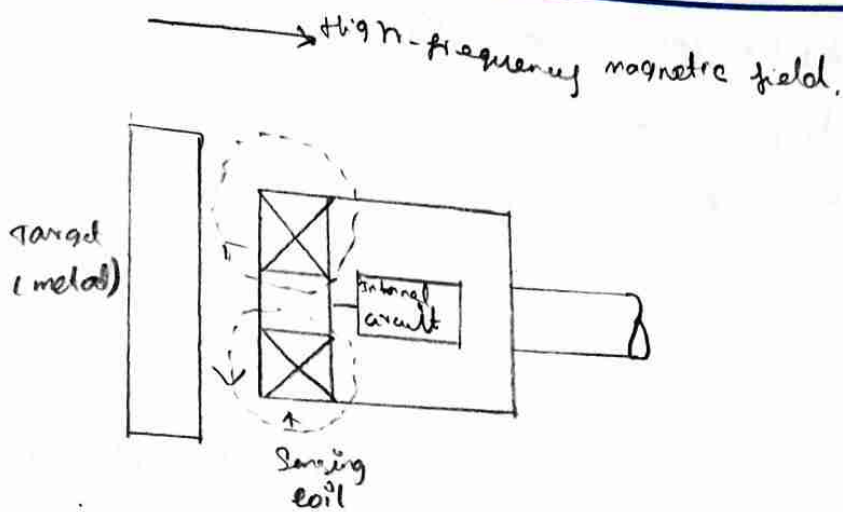
All metal type: detects any metal within the same detection distance.

Non-ferrous metal type: mainly detect non-ferrous metal such as aluminium.

According to structure type:-

The two-wire proximity sensor is simple to install and connect, it is externally wired, but it suffers from high residual voltage and leakage current.

It detects magnetic loss due to eddy current that are generated on a conductive surface by an external magnetic field.



A high-frequency magnetic field is generated coil 1 in the oscillation circuit. When a target parallels the magnetic field, induction current (eddy current) flows in the target due to electromagnetic induction. As the target due to the sensor, the induction current flow increases which causes the load on the oscillation circuit to increase. Then, oscillation attenuates or stops. The sensor detects this change in the oscillation status with the amplitude detecting circuit, and output detection signal.

Characteristic of Proximity sensor:-

* non-contact detection. Unlike a limit switch, it sets an object without any mechanical contact.

* available in severe environment, reliable serving is possible even in adverse condition where it is come in contact with water, etc...

* High precision.

* Short response time.

* Short response time.

* Long life.



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

WELCOMES YOU

for

**18ECX010T PCB Design for Everyone
2022-2023 - ODD SEM**

II YEAR - III SEM

2021-2025 BATCH

Date :
17.09.2022, 18.09.2022
&
24.09.2022 , 25.09.2022

Dr.K.Karthikeyan & P.Ramakrishnan
Co-ordinator

Dr.S.PALANIVEL RAJAN
HoD / ECE

Dr.N.Ramesh Babu
Principal

Dr.K.Ramakrishnan
Secretary



Regulation 2018		Semester __	Total Hours			15
Category	Course Code	Course Name	Hours / Week			C
			L	T	P	
X	18ECX004T	CCNAv7 - Introduction to Networks	1	0	0	1

Prerequisite Course (s)

Digital electronics

Course Objective (s):

The purpose of learning this course is to:

- 1 Understand the Basic Networking configurations and Protocol Models
- 2 Familiarize the physical layer and data link layer concepts
- 3 Configure the routers on IPv4 and IPv6 address
- 4 Study the functions of Transport layer and Application Layer
- 5 Understand the network security essentials across systems

Course Outcome (s) (COs):

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

- CO1 Build simple LANs, perform basic configurations for routers and switches
- CO2 Provide access to local and remote network resources and implement IPv4 and IPv6 addressing schemes.
- CO3 Enable end-to-end connectivity between remote devices
- CO4 Configure and troubleshoot connectivity a small network using security best practices.
- CO5 Develop critical thinking and problem-solving skills using real equipment and Cisco Packet Tracer.

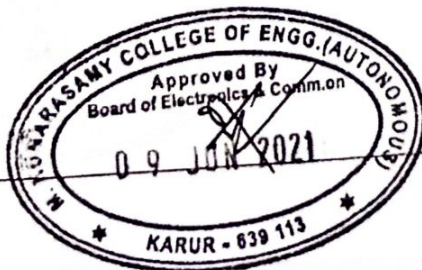
CO-PO Mapping

COs	POs												PSOs	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	2	2	3	-	-	2	-	2	2	2	2
CO2	3	3	2	2	2	3	-	-	2	-	2	2	2	2
CO3	3	3	2	2	2	3	-	-	2	-	2	2	2	2
CO4	3	3	2	2	2	3	-	-	2	-	2	2	2	2
CO5	3	3	3	2	3	3	-	-	2	-	2	2	2	2
CO (Avg)	3	3	2.2	2	3	3	-	-	2	-	2	2	2	2

1: Slight (Low)

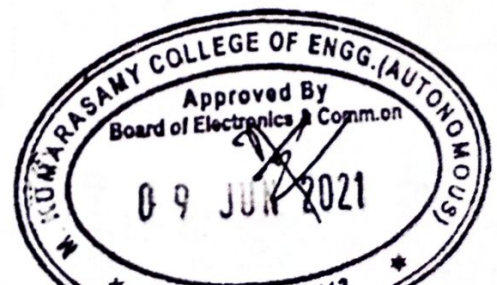
2: Moderate (Medium)

3: Substantial (High)





UNIT I	Introduction	3
Networking Today – Basic Switch and End Device Configuration- Cisco IOS Access, Protocol Models- Reference Models		
UNIT II	Physical layer and Data Link Layer	3
Physical Layer- Number Systems, Data Link Layer- Ethernet Switching, Switch Speeds and Forwarding Methods		
UNIT III	Network Layer	3
Network Layer- How a Host Routes, IPv6 Neighbour Discovery Basic Router Configuration- Subnet an IPv6 and IPV4 Network , ICMP		
UNIT IV	Transport Layer and Application Layer	3
Transport Layer- TCP Communication Process, UDP Communication, Application Layer- Web and Email Protocols, File Sharing Services, SFTP.HTTPS and SSL. Realtime application of TCP protocol and UDP		
UNIT V	Network Security and Building a Small Network	3
Security Threats and Vulnerabilities Network Attacks, Build a Small Network- Devices in a Small Network, Scale to Larger Networks, Verify Connectivity		
Text Book (s)		
1	Introduction to Networks Companion Guide (CCNAv7), By Cisco Networking Academy, Cisco Press,2020	
2	Behrouz A. Forouzan, “Data communication and Networking”, 4 th edition, Tata McGraw-Hill, New Delhi, 2007	
Reference (s)		
1	Cisco NetAcad-CCNAv7 Online Resource Materials	
2	William Stallings, “Data and Computer Communication”, Sixth Edition, Pearson Education,2000	





Department of Electronics and Communication Engineering
Academic Year 2022-2023 (ODD SEM)

III Year / V Sem B & C SEC One Credit Students Attendance sheet
18ECX004T - CCNAV7 - Introduction to Networks

S.No	Roll No	Name of the Student	28.10.2022	29.10.2022
1	20BEC4057	INDDIRA A	PRESENT	PRESENT
2	20BEC4058	JAGADEESHAN V	PRESENT	PRESENT
3	20BEC4059	JANAKAN D	PRESENT	PRESENT
4	20BEC4060	JANANI G	PRESENT	PRESENT
5	20BEC4061	JANANI M	PRESENT	PRESENT
6	20BEC4062	JASWANT V	PRESENT	PRESENT
7	20BEC4063	JAYAPRIYA S	PRESENT	PRESENT
8	20BEC4064	JEYASURYA T	PRESENT	PRESENT
9	20BEC4065	JOSHIKA P	PRESENT	PRESENT
10	20BEC4066	JOTHIPRIYA R	PRESENT	PRESENT
11	20BEC4067	KALAIVANI P	PRESENT	PRESENT
12	20BEC4068	KAMALESH S	PRESENT	PRESENT
13	20BEC4069	KARTHICK PRASATH M	PRESENT	PRESENT
14	20BEC4070	KARTHIK R	PRESENT	PRESENT
15	20BEC4071	KAVIN S	PRESENT	PRESENT
16	20BEC4072	KAVIPRIYA M	PRESENT	PRESENT
17	20BEC4073	KAVIYA C	PRESENT	PRESENT
18	20BEC4074	KAVIYARASEN B C	PRESENT	PRESENT
19	20BEC4075	KAVYAPRIYA V	PRESENT	PRESENT
20	20BEC4076	KAWASKAR R	PRESENT	PRESENT
21	20BEC4077	KEERTHANA S	PRESENT	PRESENT
22	20BEC4078	KEERTHI S	PRESENT	PRESENT
23	20BEC4079	KIRUBAKARAN R	PRESENT	PRESENT
24	20BEC4080	KISHOR L	PRESENT	PRESENT
25	20BEC4081	KISHOR S	PRESENT	PRESENT
26	20BEC4082	KOUSHIKAA N	PRESENT	PRESENT
27	20BEC4083	KOWSIGAN R	PRESENT	PRESENT
28	20BEC4084	KRISHNARAJ D	PRESENT	PRESENT
29	20BEC4085	KRITHIK PRIYAN K A	PRESENT	PRESENT

S.No	Roll No	Name of the Student	28.10.2022	29.10.2022
30	20BEC4086	KUMARESAN D	PRESENT	PRESENT
31	20BEC4087	LATHIKESH S	PRESENT	PRESENT
32	20BEC4088	LAVANYA P	PRESENT	PRESENT
33	20BEC4089	LAVANYA S	PRESENT	PRESENT
34	20BEC4090	LEKHASHREE M	PRESENT	PRESENT
35	20BEC4091	LOGANATH S	PRESENT	PRESENT
36	20BEC4092	LOGARAJ K M S	PRESENT	PRESENT
37	20BEC4093	LOGESHWARAN B	PRESENT	PRESENT
38	20BEC4094	LOGESHWARAN S	PRESENT	PRESENT
39	20BEC4095	LOGESWARAN P	PRESENT	PRESENT
40	20BEC4096	LOHESHKUMAR S	PRESENT	PRESENT
41	20BEC4097	MADHAVAN A	PRESENT	PRESENT
42	20BEC4098	MADHUPRIYA R	PRESENT	PRESENT
43	20BEC4099	MAGESHWARAN S P	PRESENT	PRESENT
44	20BEC4100	MANIKANDAN M	PRESENT	PRESENT
45	20BEC4101	MATHUMITHA T	PRESENT	PRESENT
46	20BEC4102	MEHA R	PRESENT	PRESENT
47	20BEC4103	MOHAMED MUSTHAKKIM J	PRESENT	PRESENT
48	20BEC4104	MOHAMMED ASHRAF D	PRESENT	PRESENT
49	20BEC4105	MOHAN RAM S	PRESENT	PRESENT
50	20BEC4106	MONISH K	PRESENT	PRESENT
51	20BEC4107	MONISHA M	PRESENT	PRESENT
52	20BEC4108	MOWRIEAN K	PRESENT	PRESENT
53	20BEC4109	MUTHUPRAKASH A	PRESENT	PRESENT
54	20BEC4110	NACHIMUTHU J	PRESENT	PRESENT
55	20BEC4111	NAGARAJ E	PRESENT	PRESENT
56	20BEC4112	NAGESWARI R	PRESENT	PRESENT
57	20BEC4113	NANDHEESWARAN S	PRESENT	PRESENT
58	20BEC4114	NANDHINI R	PRESENT	PRESENT
59	20BEC4115	NANDHINI S	PRESENT	PRESENT
60	20BEC4116	NANDHITHA S	PRESENT	PRESENT
61	20BEC4117	NARMATHA S	PRESENT	PRESENT
62	20BEC4118	NAVEEN KUMAR J	PRESENT	PRESENT
63	20BEC4119	NAVEEN M	PRESENT	PRESENT

S.No	Roll No	Name of the Student	28.10.2022	29.10.2022
64	20BEC4120	NAVEEN V		
65	20BEC4121	NAVYA R	PRESENT	PRESENT
66	20BEC4122	NIKIL K N	PRESENT	PRESENT
67	20BEC4123	NIRVIN CHANDAR R	PRESENT	PRESENT
68	20BEC4124	NITHYAASHREE J	PRESENT	PRESENT
69	20BEC4125	NITHYAPRABHA R	PRESENT	PRESENT
70	20BEC4126	NIVETHA S R	PRESENT	PRESENT
71	20BEC4127	POOVITHA R	PRESENT	PRESENT
72	20BEC4128	PRADEEP KUMAR P	PRESENT	PRESENT
73	20BEC4129	PRADEEP P	PRESENT	PRESENT
74	20BEC4130	PRADEEP P	PRESENT	PRESENT
75	20BEC4131	PRANAV KIRUTHIK K K	PRESENT	PRESENT
76	20BEC4132	PRASANA KUMAR R	PRESENT	PRESENT
77	20BEC4133	PRASANTH P	PRESENT	PRESENT
78	20BEC4134	PRASSHANTH D	PRESENT	PRESENT
79	20BEC4135	PRAVEEN A	PRESENT	PRESENT
80	20BEC4136	PRAVEEN ANANDH P S	PRESENT	PRESENT
81	20BEC4137	PRAVEEN N	PRESENT	PRESENT
82	20BEC4138	PRAVEEN P	PRESENT	PRESENT
83	20BEC4139	PRAVEEN RAJA K	PRESENT	PRESENT
84	20BEC4140	PRAVEEN S	PRESENT	PRESENT
85	20BEC4141	PRAVIN NIXON S	PRESENT	PRESENT
86	20BEC4142	RAHUL B	PRESENT	PRESENT
87	20BEC4143	RAJA K	PRESENT	PRESENT
88	20BEC4144	RAKSHANA A S	PRESENT	PRESENT
89	20BEC4145	RAMESH M	PRESENT	PRESENT
90	20BEC4146	RANJITHKUMAR M	PRESENT	PRESENT
91	20BEC4147	RESHMA T	PRESENT	PRESENT
92	20BEC4148	REVATHYSHREE ELA	PRESENT	PRESENT
93	20BEC4149	RITHANYA P	PRESENT	PRESENT
94	20BEC4150	RITHICK R	PRESENT	PRESENT
95	20BEC4151	RITHIK V S	PRESENT	PRESENT
96	20BEC4152	RITHIKA R K	PRESENT	PRESENT
97	20BEC4153	ROHITH M		

S.No	Roll No	Name of the Student	28.10.2022	29.10.2022
98	20BEC4154	ROOBESH K S	PRESENT	PRESENT
99	20BEC4155	SABANA M	PRESENT	PRESENT
100	20BEC4156	SABAREESH R	PRESENT	PRESENT
101	20BEC4157	SABARI M	PRESENT	PRESENT
102	20BEC4158	SABARNA K	PRESENT	PRESENT
103	20BEC4159	SACHIN ARAVINTH K	PRESENT	PRESENT
104	20BEC4160	SACHIN D	PRESENT	PRESENT
105	20BEC4162	SAKTHIVEL K	PRESENT	PRESENT
106	20BEC4163	SANDHIYA R	PRESENT	PRESENT
107	20BEC4164	SANTHIYA S	PRESENT	PRESENT
108	20BEC4165	SANTHOSH KUMAR A	PRESENT	PRESENT
109	20BEC4166	SANTHOSH M	PRESENT	PRESENT
110	20BEC4167	SANTHOSHKUMAR R P	PRESENT	PRESENT
111	20BEC4168	SARAN V	PRESENT	PRESENT
112	20BEC4169	SASITH N	PRESENT	PRESENT
113	20BEC4170	SATHISH M	PRESENT	PRESENT
114	20BEC4301	ASWIN KUMAR K	PRESENT	PRESENT
115	20BEC4303	HALDO J	PRESENT	PRESENT
116	20BEC4313	SRISUNDHAR B D	PRESENT	PRESENT


Staff Incharge




HoD/ECE
Dr. S. PALANIVEL RAJAN, B.E., M.E., Ph.D.,
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Department of Electronics and Communication Engineering
III YEAR / V SEM 'A' SEC ONE CREDIT COURSE INTERNAL MARK STATEMENT
Batch 2020 - 2024 Academic Year 2022-2023(ODD SEM)
18ECX004T - CCNAv7 - Introduction to Networks

S.No	Roll No	Name of the Student	ASSIGNMENT (30)	EXAMINATION (50)	VIVA VOCE (20)	TOTAL (100)
1	20BEC4001	AARTHI P	29	48	19	96
2	20BEC4002	ABIRAJA B	30	50	20	99
3	20BEC4003	ABISHEK P	24	40	16	80
4	20BEC4004	AHAMED MUSTHAFA M	29	48	19	97
5	20BEC4005	AKHILAAN K R	26	43	17	87
6	20BEC4006	AMIRTHISVARAN R P	27	45	18	91
7	20BEC4007	ARCHANA S	30	50	20	100
8	20BEC4008	ARTHI S	30	50	20	99
9	20BEC4009	ARULMOZHI B	29	49	20	98
10	20BEC4011	ARUN KUMAR N	29	48	19	96
11	20BEC4012	ASHWIN S	29	49	19	97
12	20BEC4013	ASWATH S	26	43	17	87
13	20BEC4014	ATHISH K B	28	47	19	94
14	20BEC4015	BALAJI J	27	45	18	90
15	20BEC4016	BALAJI P	29	48	19	96
16	20BEC4017	BALASANJEEV KV	29	49	20	98
17	20BEC4018	BALASURYA B	29	48	19	96
18	20BEC4019	BHARATH K	30	50	20	100
19	20BEC4020	BHARATHI G	28	46	19	93
20	20BEC4021	BHAVADHARANI K	29	49	20	98
21	20BEC4022	BHUVANESH R	29	49	20	98
22	20BEC4023	BOOMA R	29	48	19	96
23	20BEC4024	BOOPATHI A	28	47	19	94
24	20BEC4025	BOOPATHY L	29	49	19	97
25	20BEC4026	CHANDIKA N	30	50	20	99
26	20BEC4027	CIBI C	27	45	18	89

27	20BEC4028	DEEPANRAJ P	29	48	19	96
28	20BEC4029	DEEPIKA B	28	47	19	94
29	20BEC4030	DEVADHARSHINI K	29	48	19	97
30	20BEC4031	DHANUSHKUMAR S	28	47	19	95
31	20BEC4032	DHARANIKUMAR K	29	49	20	98
32	20BEC4033	DHARSHINI R	30	50	20	99
33	20BEC4034	DHARUN M	26	43	17	87
34	20BEC4035	DHAYANETHI V	27	45	18	90
35	20BEC4036	DHIVAGAR P	29	49	20	98
36	20BEC4037	ELAKKIYA KV	28	47	19	95
37	20BEC4038	ELANCHEZIAN K S	29	49	20	98
38	20BEC4039	GANGADHARAN R	27	45	18	90
39	20BEC4040	GEETHAN B	29	48	19	96
40	20BEC4041	GOKUL P	27	45	18	90
41	20BEC4042	GOKUL SC	29	48	19	97
42	20BEC4043	GOPINATH N	29	48	19	96
43	20BEC4044	GOWRI R	28	47	19	94
44	20BEC4045	GOWRI SANKAR G S	27	44	18	89
45	20BEC4046	GOWSHIK N	29	48	19	96
46	20BEC4047	GOWSIKADEVI M	29	49	19	97
47	20BEC4048	GOWTHAM G	27	45	18	90
48	20BEC4049	GOWTHAM R	29	49	20	98
49	20BEC4050	GOWTHAM S	29	49	20	98
50	20BEC4051	GUNANITHI R	28	46	19	93
51	20BEC4052	HARI HARAN T	29	48	19	97
52	20BEC4053	HARINI S	29	49	19	97
53	20BEC4054	HARISH M	26	44	18	88
54	20BEC4055	HARISH S	28	46	18	92
55	20BEC4056	HARSHINI M	29	49	20	98
56	20BEC4302	DEEPAN S A	29	49	19	97
57	20BEC4306	RAGUNATH K	23	38	15	77
58	20BEC4310	KAVIYAVARDHINI	29	49	20	98

COURSE INSTRUCTOR

CLASS ADVISOR



HOD
25/11/22
Dr. G. ANVEL RAJAN, B.E., M.E., Ph.D.,
M.B.A., R.G.D.I.C.L., D.Litt., (USA),
Professor & Head,
Dept. of Electronics and Communication Engg.,
M. Kumarasamy College of Engineering, Karur - 639 112.



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Department of Electronics and Communication Engineering
III YEAR / V SEM 'B' SEC ONE CREDIT COURSE INTERNAL MARK STATEMENT
Batch 2020 - 2024 Academic Year 2022-2023(ODD SEM)
18ECX004T - CCNav7 - Introduction to Networks

S.No	Roll No	Name of the Student	ASSIGNMENT (30)	EXAMINATION (50)	VIVA VOCE (20)	TOTAL (100)
1	20BEC4057	INDDIRA A	27	46	18	91
2	20BEC4058	JAGADEESHAN V	27	46	18	91
3	20BEC4059	JANAKAN D	29	49	20	98
4	20BEC4060	JANANI G	29	48	19	96
5	20BEC4061	JANANI M	28	47	19	93
6	20BEC4062	JASWANT V	29	48	19	95
7	20BEC4063	JAYAPRIYA S	29	48	19	96
8	20BEC4064	JEYASURYA T	29	49	20	98
9	20BEC4065	JOSHIKA P	29	48	19	97
10	20BEC4066	JOTHIPRIYA R	29	48	19	95
11	20BEC4067	KALAIVANI P	29	49	19	97
12	20BEC4068	KAMALESH S	30	50	20	99
13	20BEC4069	KARTHICK PRASATH M	29	49	19	97
14	20BEC4070	KARTHIK R	29	48	19	97
15	20BEC4071	KAVIN S	28	47	19	95
16	20BEC4072	KAVIPRIYA M	30	50	20	100
17	20BEC4073	KAVIYA C	29	49	20	98
18	20BEC4074	KAVIYARASEN B C	29	48	19	96
19	20BEC4075	KAVYAPRIYA V	29	49	19	97
20	20BEC4076	KAWASKAR R	28	47	19	94
21	20BEC4077	KEERTHANA S	29	49	20	98
22	20BEC4078	KEERTHI S	29	48	19	97
23	20BEC4079	KIRUBAKARAN R	29	48	19	96
24	20BEC4080	KISHOR L	29	48	19	96
25	20BEC4081	KISHOR S	28	47	19	95
26	20BEC4082	KOUSHIKAA N	29	48	19	96
27	20BEC4083	KOWSIGAN R	28	47	19	94
28	20BEC4084	KRISHNARAJ D	27	45	18	91

29	20BEC4085	KRITHIK PRIYAN K A	29	49	20	98
30	20BEC4086	KUMARESAN D	26	43	17	87
31	20BEC4087	LATHIKESH S	29	49	20	98
32	20BEC4088	LAVANYA P	25	42	17	83
33	20BEC4089	LAVANYA S	29	48	19	96
34	20BEC4090	LEKHASHREE M	29	49	20	98
35	20BEC4091	LOGANATH S	30	50	20	99
36	20BEC4092	LOGARAJ K M S	30	50	20	99
37	20BEC4093	LOGESHWARAN B	30	50	20	99
38	20BEC4094	LOGESHWARAN S	30	50	20	100
39	20BEC4095	LOGESWARAN P	30	50	20	100
40	20BEC4096	LOHESHKUMAR S	29	48	19	96
41	20BEC4097	MADHAVAN A	29	48	19	95
42	20BEC4098	MADHUPRIYA R	30	50	20	100
43	20BEC4099	MAGESHWARAN S P	29	49	20	98
44	20BEC4100	MANIKANDAN M	29	48	19	97
45	20BEC4101	MATHUMITHA T	27	45	18	91
46	20BEC4102	MEHA R	29	48	19	96
47	20BEC4103	MOHAMED MUSTHAKKIM J	28	47	19	94
48	20BEC4104	MOHAMMED ASHRAF D	25	41	16	82
49	20BEC4105	MOHAN RAM S	28	47	19	93
50	20BEC4106	MONISH K	30	50	20	100
51	20BEC4107	MONISHA M	28	46	19	93
52	20BEC4108	MOWRIEAN K	30	50	20	100
53	20BEC4109	MUTHUPRAKASH A	30	50	20	100
54	20BEC4110	NACHIMUTHU J	28	47	19	95
55	20BEC4111	NAGARAJ E	29	48	19	95
56	20BEC4112	NAGESWARI R	29	48	19	96
57	20BEC4113	NANDHEESWARAN S	29	49	20	98
58	20BEC4114	NANDHINI R	29	48	19	97

COURSE INSTRUCTOR

CLASS ADVISOR



HQD
Dr. S. PALANIVEL RAJAN, B.E., M.E., Ph.D.,
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Thiruvananthapuram, Kerala - 695 012



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Department of Electronics and Communication Engineering
III YEAR / V SEM 'C' SEC ONE CREDIT COURSE INTERNAL MARK STATEMENT
Batch 2020 - 2024 Academic Year 2022-2023(ODD SEM)
18ECX004T - CCNAv7 - Introduction to Networks

S.No	Roll No	Name of the Student	ASSIGNMENT (30)	EXAMINATION (50)	VIVA VOCE (20)	TOTAL (100)
1	20BEC4115	NANDHINI S	28	46	18	92
2	20BEC4116	NANDHITHA S	28	46	18	92
3	20BEC4117	NARMATHA S	29	49	19	97
4	20BEC4118	NAVEEN KUMAR J	25	42	17	84
5	20BEC4119	NAVEEN M	26	43	17	85
6	20BEC4120	NAVEEN V	25	42	17	83
7	20BEC4121	NAVYA R	28	47	19	93
8	20BEC4122	NIKIL K N	26	44	17	87
9	20BEC4123	NIRVIN CHANDAR R	28	46	19	93
10	20BEC4124	NITHYAASHREE J	28	47	19	94
11	20BEC4125	NITHYAPRABHA R	29	49	20	98
12	20BEC4126	NIVETHA S R	30	50	20	100
13	20BEC4127	POOVITHA R	29	48	19	96
14	20BEC4128	PRADEEP KUMAR P	29	49	20	98
15	20BEC4129	PRADEEP P	29	48	19	96
16	20BEC4130	PRADEEP P	28	46	18	92
17	20BEC4131	PRANAV KIRUTHIK K K	30	50	20	99
18	20BEC4132	PRASANA KUMAR R	30	50	20	99
19	20BEC4133	PRASANTH P	29	49	19	97
20	20BEC4134	PRASSHANTH D	29	49	20	98
21	20BEC4135	PRAVEEN A	29	49	20	98
22	20BEC4136	PRAVEEN ANANDH P S	29	49	20	98
23	20BEC4137	PRAVEEN N	28	47	19	95
24	20BEC4138	PRAVEEN P	30	49	20	99
25	20BEC4139	PRAVEEN RAJA K	26	43	17	87
26	20BEC4140	PRAVEEN S	28	46	18	92

27	20BEC4141	PRAVIN NIXON S	30	50	20	100
28	20BEC4142	RAHUL B	27	44	18	89
29	20BEC4143	RAJA K	25	42	17	84
30	20BEC4144	RAKSHANA A S	30	50	20	99
31	20BEC4145	RAMESH M	28	47	19	94
32	20BEC4146	RANJITHKUMAR M	28	47	19	94
33	20BEC4147	RESHMA T	29	48	19	97
34	20BEC4148	REVATHYSHREE ELA	29	48	19	97
35	20BEC4149	RITHANYA P	27	45	18	91
36	20BEC4150	RITHICK R	29	48	19	97
37	20BEC4151	RITHIK V S	27	45	18	89
38	20BEC4152	RITHIKA R K	29	49	19	97
39	20BEC4153	ROHITH M	24	40	16	81
40	20BEC4154	ROOBESH K S	29	48	19	97
41	20BEC4155	SABANA M	27	45	18	91
42	20BEC4156	SABAREESH R	25	42	17	83
43	20BEC4157	SABARI M	30	50	20	100
44	20BEC4158	SABARNA K	29	48	19	96
45	20BEC4159	SACHIN ARAVINTH K	27	46	18	91
46	20BEC4160	SACHIN D	27	46	18	91
47	20BEC4162	SAKTHIVEL K	30	49	20	99
48	20BEC4163	SANDHIYA R	30	50	20	100
49	20BEC4164	SANTHIYA S	29	49	19	97
50	20BEC4165	SANTHOSH KUMAR A	29	49	20	98
51	20BEC4166	SANTHOSH M	30	50	20	100
52	20BEC4167	SANTHOSHKUMAR R P	30	50	20	99
53	20BEC4168	SARAN V	29	48	19	96
54	20BEC4169	SASITH N	29	49	19	97
55	20BEC4170	SATHISH M	28	47	19	94
56	20BEC4301	ASWIN KUMAR K	30	49	20	99
57	20BEC4303	HALDO J	29	49	19	97
58	20BEC4313	SRISUNDHAR B D	25	42	17	84

COURSE INSTRUCTOR

CLASS ADVISOR

HOD



Dr. S. PALANIVEL RAJAN, B.E., M.E., Ph.D.
M.B.A., P.G.D.I.C.L., D.Litt., (USA),
Professor & Head,



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Thalavapalayam, Karur - 639 113.



**INSTITUTION'S
INNOVATION
COUNCIL**
(Ministry of IITED Institutions)



KR

Department of Electronics and Communication Engineering
III YEAR / V SEM 'D' SEC ONE CREDIT COURSE INTERNAL MARK STATEMENT
Batch 2020 - 2024 Academic Year 2022-2023(ODD SEM)
18ECX004T - CCNAv7 - Introduction to Networks

S.No	Roll No	Name of the Student	ASSIGNMENT (30)	EXAMINATION (50)	VIVA VOCE (20)	TOTAL (100)
						99
1	20BEC4171	SATHISHKUMAR K	30	50	20	99
2	20BEC4172	SELVAKUMAR R	28	47	19	95
3	20BEC4173	SHANMUGAPRIYA K	29	49	19	97
4	20BEC4174	SHARMILI S	29	48	19	96
5	20BEC4175	SHREE SUBHA M	28	47	19	95
6	20BEC4176	SHRUDI SK	21	34	14	69
7	20BEC4178	SINDHUJA B	29	48	19	95
8	20BEC4179	SOBIKA B	27	45	18	91
9	20BEC4180	SOWMIYA K	29	48	19	95
10	20BEC4181	SOWMIYA P	28	47	19	94
11	20BEC4182	SRIDHAR T	25	42	17	84
12	20BEC4183	SRIDHAR T.R	29	49	19	97
13	20BEC4184	SRIMATHI R	30	50	20	99
14	20BEC4185	SRIVISHNU P	28	46	18	92
15	20BEC4186	SUBASHRI V	29	48	19	97
16	20BEC4187	SUBASRI B	30	50	20	100
17	20BEC4188	SUDHARSUN Y	29	48	19	97
18	20BEC4189	SUJA S	27	44	18	89
19	20BEC4190	SUJITHAA R	30	49	20	99
20	20BEC4191	SUKEENDHAR G	27	44	18	89
21	20BEC4192	SUKUL S	29	48	19	96
22	20BEC4193	SURESH KUMAR K.R	28	47	19	94
23	20BEC4194	SURYA S	30	50	20	100
24	20BEC4195	SUHASHRAJ V	29	49	19	97
25	20BEC4196	SUVETHA C	30	50	20	99
26	20BEC4197	SWETHA L.G	28	46	18	92

27	20BEC4199	TAMILSELVAN M	30	50	20	99
28	20BEC4200	TARUN S.K	22	36	15	73
29	20BEC4201	THANYA K	28	46	19	93
30	20BEC4202	THARSAN NISOK R	27	46	18	91
31	20BEC4203	THARUN S	29	49	19	97
32	20BEC4204	THINESH KUMAR G	29	48	19	97
33	20BEC4205	USHA E	29	48	19	97
34	20BEC4206	UTITH NARENTHAAR S J	28	47	19	94
35	20BEC4207	VAISHNAVEE M	29	48	19	96
36	20BEC4208	VARNIKA S	26	43	17	86
37	20BEC4209	VARSANA J	28	47	19	94
38	20BEC4210	VARSHA N	29	49	20	98
39	20BEC4211	VARSHAYINI S	28	46	19	93
40	20BEC4212	VENKATESH I	30	50	20	100
41	20BEC4213	VIGNESH R	28	47	19	95
42	20BEC4214	VIGNESH S	29	49	20	98
43	20BEC4215	VIGNESHWARAN S	28	46	19	93
44	20BEC4216	VIGNESHWARAN S	29	49	20	98
45	20BEC4217	VIJAYARAGAVAN T	28	46	18	92
46	20BEC4218	VIKRAM R.N	26	44	18	88
47	20BEC4219	VINEETH S	28	47	19	95
48	20BEC4220	VINITHA A	27	46	18	91
49	20BEC4221	VINOTHKUMAR J	30	49	20	99
50	20BEC4222	VISHWA S	28	47	19	93
51	20BEC4223	YUVARANJANI J	29	49	19	97
52	20BEC4305	KAVINADHITHYA J S	30	49	20	99
53	20BEC4307	MOKITH K	28	47	19	95
54	20BEC4308	NAVEEN E	29	49	20	98
55	20BEC4312	SREEBALAN V	28	47	19	93
56	20BEC4314	SRIVARSHAN S	27	45	18	90

COURSE INSTRUCTOR

CLASS ADVISOR



Dr. S. PALANIVEL RAJAN, B.E., M.E.,
M.B.A., P.G.D.I.C.L., D.Litt., (USA),
Professor & Head,
Dept. of Electronics and Communication Engineering,
M. Kumarasamy College of Engineering, Karur - 6



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

WELCOMES YOU

For

**18ECX002T - Next Generation Wireless Systems and Networks
2022-2023 - EVEN SEM**

III YEAR - VI SEM

2020-2024 BATCH

Date :
30.04.2023 & 01.05.2023

Dr.K.Karthikeyan & P.Ramakrishnan
Co-ordinator

Dr.S.PALANIVEL RAJAN
HoD / ECE

Dr.B.S.Murugan
Principal

Dr.K.Ramakrishnan
Secretary



Regulation 2018		Semester	Total Hours			15
Category	Course Code	Course Name	Hours / Week			C
			L	T	P	
X	18ECX002T	NEXT GENERATION WIRELESS SYSTEMS AND NETWORKS	1	0	0	1

Prerequisite Course (s)

Nil

Course Objective (s): The purpose of learning this course is to:

- 1 Understand a Windows Installations and Configurations.
- 2 Explain the Principles of Windows Device Manager.
- 3 Learn about the Mobile IPs.
- 4 Have the Basic Concept of Smart Antenna Techniques.
- 5 Understand the concepts of Cognitive Radio Technology.

Course Outcome (s) (COs):

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

- CO1 Apply their knowledge about Windows Installations and Configurations.
- CO2 Ability to determine the Windows Device Manager
- CO3 Analysis the Mobile IPs
- CO4 Explain the Concept of Smart Antenna Techniques.
- CO5 Describe the Basics of the Cognitive Radio Technology

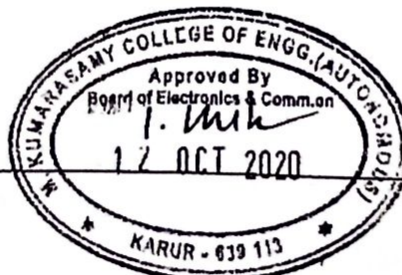
CO-PO Mapping

COs	POs												PSOs	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	-	-	-	-	-	-	-	-	-	-	-	3	3
CO2	2	-	-	-	-	-	-	-	-	-	-	-	3	3
CO3	2	2	1	-	-	-	-	-	-	-	-	-	3	2
CO4	2	2	1	-	-	-	-	-	-	-	-	2	3	2
CO5	2	-	-	-	-	-	-	-	-	-	-	2	3	2
CO (Avg)	2	2	1	-	-	-	-	-	-	-	-	2	3	2.4

1: Slight (Low)

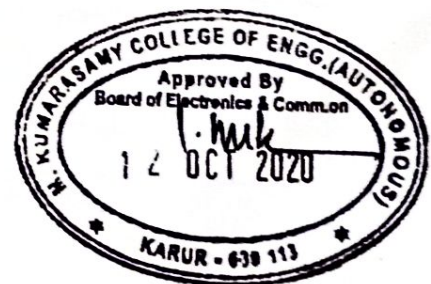
2: Moderate (Medium)

3: Substantial (High)





UNIT I	INTRODUCTION	3
Introduction to server, Installation & configuration of Windows servers.		
UNIT II	USER AND DEVICE MANAGER TOOLS	3
Windows Device Manager for Troubleshooting, Printers -Installing -configuring.		
UNIT III	ALL-IP WIRELESS NETWORKING	3
Wireless Application Protocol (WAP) - IP onMobile Ad Hoc Networks.		
UNIT IV	MIMO SYSTEMS	3
Smart Antenna Techniques -SISO, SIMO, MISO, andMIMO Systems - STBC-CDMA Systems.		
UNIT V	COGNITIVE RADIO TECHNOLOGY	3
Cognitive Radio -SDR - Challenges to Implement Cognitive Radio - Cognitive Radio Products and Applications		
Text Book (s)		
1	IP in Wireless Networks, Basavaraj Patil, ShavanthaKularatna, Yousuf Saifullah, LachuLyengar, Stefano Faccin, LachuAravamudhan, Srinivas Sreemanthula, Sarvesh Sharma, RistoMononen, Pearson Edition .	
2	Cognitive Radio Technology Edited by Bruce A. Fette, British Library Cataloguing-in-Publication Data, Latest Edition.	
Reference (s)		
1.	Large MIMO Systems, Kindle Edition, A. Chockalingam, B. Sundar Rajan, Cambridge University Press (6 February 2014) ISBN: 1107026652.	
2.	Mobile Device Management: Mobility Evaluation in Small and Medium-Sized Enterprises, Markus Pierer, First Edition, Springer Vieweg; 1st ed. 2016 Edition (August 12, 2016)	





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Department of Electronics and Communication Engineering

III YEAR / VI SEM 'C' SEC ONE CREDIT STUDENTS ATTENDANCE SHEET

Batch 2020- 2024 Academic Year 2022-2023(EVEN SEM)

18ECX002T- Next Generation Wireless Systems and Networks

S.No	Roll No	Name of the Student	30.04.2023	01.05.2023
1	20BEC4153	ROHITH M	<u>Rohith</u>	<u>Rohith</u>

P. Ramalingam
Staff Incharge 11/5/23

Dr. J. J. J.
Class Advisor



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Department of Electronics and Communication Engineering
III YEAR / VI SEM 'D' SEC ONE CREDIT STUDENTS ATTENDANCE SHEET
Batch 2020- 2024 Academic Year 2022-2023(EVEN SEM)
18ECX002T- Next Generation Wireless Systems and Networks

S.No	Roll No	Name of the Student	30.04.2023	01.05.2023
1	20BEC4171	SATHISHKUMAR K	K. Sathish	K. Sathish
2	20BEC4172	SELVAKUMAR R	R. Selva	R. Selva
3	20BEC4182	SRIDHAR T	Sridhar	Sridhar
4	20BEC4191	SUKEENDHAR G	S. Sukeendhar	S. Sukeendhar
5	20BEC4196	SUVETHA C	S. Suveetha	S. Suveetha
6	20BEC4200	TARUN S.K	T. Arun	T. Arun
7	20BEC4202	THARSAN NISOK R	Tharshan	Tharshan
8	20BEC4208	VARNIKA S	V. Arnika	V. Arnika
9	20BEC4209	VARSANA J	V. Arana	V. Arana
10	20BEC4214	VIGNESH S	V. Arnes	V. Arnes
11	20BEC4215	VIGNESHWARAN S	V. Arnes	V. Arnes
12	20BEC4221	VINOTHKUMAR J	V. Arnes	V. Arnes
13	20BEC4305	KAVINADHITHYA J S	V. Arnes	V. Arnes
14	20BEC4401	LEENA G	G. Leena	G. Leena

Staff Incharge

Class Advisor



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Department of Electronics and Communication Engineering
III YEAR / VI SEM 'D' SEC ONE CREDIT STUDENTS INTERNAL MARK
Batch 2020- 2024 / Academic Year 2022-2023(EVEN SEM)
18ECX002T- Next Generation Wireless Systems and Networks

S.No	Roll No	Name of the Student	ASSIGNMENT (30)	EXAMINATION (50)	VIVA VOCE (20)	TOTAL (100)
1	20BEC4171	SATHISHKUMAR K	25	48	18	91
2	20BEC4172	SELVAKUMAR R	22	44	15	81
3	20BEC4182	SRIDHAR T	29	48	18	95
4	20BEC4191	SUKEENDHAR G	27	49	19	95
5	20BEC4196	SUVETHA C	28	46	18	92
6	20BEC4200	TARUN S.K	29	48	19	96
7	20BEC4202	THARSAN NISOK R	27	47	18	92
8	20BEC4208	VARNIKA S	28	47	17	92
9	20BEC4209	VARSANA J	29	45	19	93
10	20BEC4214	VIGNESH S	28	47	17	92
11	20BEC4215	VIGNESHWARAN S	28	48	16	92
12	20BEC4221	VINOTHKUMAR J	26	48	15	89
13	20BEC4305	KAVINADHITHYA J S	28	48	17	93
14	20BEC4401	LEENA G	26	49	16	91

PP
Staff Incharge

24.5.23
Class Advisor

HOD

HOD/ECE
24/5/23



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Thalavapalayam, Karur-639 113, Tamilnadu.



Department of Information Technology

presents

One Credit Course

on

18ITX003L- PHP and MYSQL

for II Year IT Students

Date

17.05.2023 to 18.05.2023

Time

09.00 AM - 04.40 PM

Venue

IT Lab 1 & 2

Dr. K.Ramakrishnan

Secretary

Dr. S. Kuppusamy

Executive Director

Dr. B.S.Murugan

Principal

Dr. R.Punithavathi

HOD/IT

Course Coordinators : Mr.A.Vijay - AP/IT | Mr.K.Kalaiarasan - AP/IT

Regulation 2018		Course Name	Total Hours			30
Category	Course Code		Hours / Week			
			L	T	P	C
N	1811X003	PHP and MYSQL	0	0	2	1

Prerequisite Course (s)

HTML

Course Objective (s):

The purpose of learning this course is to:

1. Learn how to take a static website and turn it into a dynamic website run from a database using PHP and MySQL.
2. Analyze the basic structure of a PHP web application and be able to install and maintain the web server, compile, and run a simple web application
3. Learn how databases work and how to design one, as well as how to use php MyAdmin to work with MySQL.

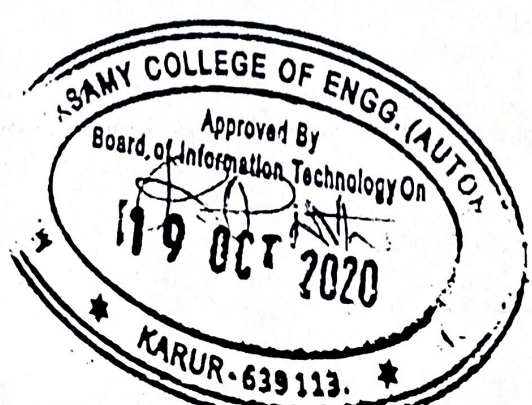
Course Outcome (s) (COs):

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

- CO1 List the major elements of the PHP & MySQL work and explain why PHP is good for web development.
- CO2 Create Dynamic Websites

Topics:

1. Introduction to PHP & MYSQL
2. Decisions and loop
3. Functions & Arrays
4. PHP Myadmin
5. Handling HTML form with PHP
6. Working files with dictionaries
7. Session and Cookies
8. Database Connectivity with MySQL
9. Exception Handling
10. Mini Project



**DEPARTMENT OF INFORMATION TECHNOLOGY****One credit course on "PHP and MySQL"****Attendance Sheet**

AY:2022-2023

BATCH:2021-2025


YEAR / SEM / SEC : II / IV / A

S No	Roll No	Student Name	17.05.2023 FN	17.05.2023 AN	18.05.2023 FN	18.05.2023 AN
1	927621BIT001	AJAIRAGUL M	M.Ajairagul	M.Ajairagul	M.Ajairagul	M.Ajairagul
2	927621BIT002	AJAY V	V.Aj	V.Aj	V.Aj	V.Aj
3	927621BIT003	AKHIL K	Akhil	Akhil	Akhil	Akhil
4	927621BIT004	AMIRTHA C S	Amirtha S	Amirtha S	Amirtha S	Amirtha S
5	927621BIT005	AMRUTHA S	Amrutha S	Amrutha S	Amrutha S	Amrutha S
6	927621BIT006	ANBARASU S	As. Anbarasu	As. Anbarasu	As. Anbarasu	As. Anbarasu
7	927621BIT007	ASWIN KUMAR S	S. Aswin	S. Aswin	S. Aswin	S. Aswin
8	927621BIT008	AYSHA SIDDIKA M	Aysha	Aysha	Aysha	Aysha
9	927621BIT009	BALAHARINI K	K. Balaharini	K. Balaharini	K. Balaharini	K. Balaharini
10	927621BIT010	BARATHI S	S. Barathi	S. Barathi	S. Barathi	S. Barathi
11	927621BIT011	BHARATH RAJ V	Bharath V	Bharath V	Bharath V	Bharath V
12	927621BIT012	BOMMANESH S	S. Bommanesh	S. Bommanesh	S. Bommanesh	S. Bommanesh
13	927621BIT013	BOOPATHI M	M. Boopathi	M. Boopathi	M. Boopathi	M. Boopathi
14	927621BIT014	BRINDHA S	S. Brindha	S. Brindha	S. Brindha	S. Brindha
15	927621BIT015	CHANDRA MOULI S T	Chandra	Chandra	Chandra	Chandra
16	927621BIT016	DARSHAN M S	Darshan	Darshan	Darshan	Darshan
17	927621BIT017	DEEBIKA C	Deebika	Deebika	Deebika	Deebika
18	927621BIT018	DHANUSH S	S. Dhhanush	S. Dhhanush	S. Dhhanush	S. Dhhanush
19	927621BIT019	DHANUSH S S	S.S. Dhhanush	S.S. Dhhanush	S.S. Dhhanush	S.S. Dhhanush
20	927621BIT020	DHARANEESWARAN S	S. Dhharaneeswaran	S. Dhharaneeswaran	S. Dhharaneeswaran	S. Dhharaneeswaran
21	927621BIT021	DHARANIKUMARAN S K	DK	DK	DK	DK
22	927621BIT022	DHARSHAN J	J. Dhharshan	J. Dhharshan	J. Dhharshan	J. Dhharshan
23	927621BIT023	DHARUN KUMAR T	T. Dhharun	T. Dhharun	T. Dhharun	T. Dhharun

S No	Roll No	Student Name	17.05.2023 FN	17.05.2023 AN	18.05.2023 FN	18.05.2023 AN
24	927621BIT024	DHEENA P	P.D.P	P.D.P	P.D.P	P.D.P
25	927621BIT025	DHILIPKUMAR D	D.P	D.P	D.P	D.P
26	927621BIT026	DHIVINKUMAR A	A.Dhivinkumar	A.Dhivinkumar	A.Dhivinkumar	A.Dhivinkumar
27	927621BIT027	ESVANTH M	M.Esvanth	M.Esvanth	M.Esvanth	M.Esvanth
28	927621BIT028	GOPINATH V	V.Gopinath	V.Gopinath	V.Gopinath	V.Gopinath
29	927621BIT029	GOUDHAMA SUNDHARAM S	S.Sundharam	S.Sundharam	S.Sundharam	S.Sundharam
30	927621BIT030	GOWTHAM A	A.Gowtham	A.Gowtham	A.Gowtham	A.Gowtham
31	927621BIT031	GOWTHAM G	G.Gowtham	G.Gowtham	G.Gowtham	G.Gowtham
32	927621BIT032	GUNA K	K.Guna	K.Guna	K.Guna	K.Guna
33	927621BIT033	HANISH PRASATH R	R.Hanish	R.Hanish	R.Hanish	R.Hanish
34	927621BIT034	HAREESHRAVI S	S.Hareesh	S.Hareesh	S.Hareesh	S.Hareesh
35	927621BIT035	INITHA M	M.Initha	M.Initha	M.Initha	M.Initha
36	927621BIT036	INIYAN B	B.Iniyana	B.Iniyana	B.Iniyana	B.Iniyana
37	927621BIT037	JAGADHEESWARAN T	T.Jagadheeswaran	T.Jagadheeswaran	T.Jagadheeswaran	T.Jagadheeswaran
38	927621BIT038	JAGANNATH.M.G	M.G.Jagannath	M.G.Jagannath	M.G.Jagannath	M.G.Jagannath
39	927621BIT039	JANARTHANAN S	S.Janarthanan	S.Janarthanan	S.Janarthanan	S.Janarthanan
40	927621BIT040	JAYASHREE S	S.Jayashree	S.Jayashree	S.Jayashree	S.Jayashree
41	927621BIT041	KABHILAN L	L.Kabhilan	L.Kabhilan	L.Kabhilan	L.Kabhilan
42	927621BIT042	KAMALA LAKSHMI PRIYA M A	A.M.Priya	A.M.Priya	A.M.Priya	A.M.Priya
43	927621BIT043	KANISHKA M	M.Kanishka	M.Kanishka	M.Kanishka	M.Kanishka
44	927621BIT044	KAVIKUMARAN R	R.Kavikumar	R.Kavikumar	R.Kavikumar	R.Kavikumar
45	927621BIT045	KAVIN PRAJITH C	C.Prajith	C.Prajith	C.Prajith	C.Prajith
46	927621BIT046	KAVIPRIYA M	M.Kavipriya	M.Kavipriya	M.Kavipriya	M.Kavipriya
47	927621BIT047	KEERTHI S S	S.S.Keerthi	S.S.Keerthi	S.S.Keerthi	S.S.Keerthi
48	927621BIT048	KEERTHANA C	C.Keerthana	C.Keerthana	C.Keerthana	C.Keerthana
49	927621BIT049	KEERTHANA S	S.Keerthana	S.Keerthana	S.Keerthana	S.Keerthana
50	927621BIT050	KEERTHIGA N	N.Keerthiga	N.Keerthiga	N.Keerthiga	N.Keerthiga
51	927621BIT051	KHAMALESH K	K.Khamalesh	K.Khamalesh	K.Khamalesh	K.Khamalesh
52	927621BIT052	KIRUTHIKA B	B.Kiruthika	B.Kiruthika	B.Kiruthika	B.Kiruthika
53	927621BIT053	KISHORE B S	S.B.Kishore	S.B.Kishore	S.B.Kishore	S.B.Kishore

S No	Roll No	Student Name	17.05.2023 FN	17.05.2023 AN	18.05.2023 FN	18.05.2023 AN
54	927621BIT054	KUPENDHRAN R	R.K.	R.K.	R.K.	R.K.
55	927621BIT055	LAKSHMI PRABHA R V	R.V. Lakshmi	R.V. Lakshmi	R.V. Lakshmi	R.V. Lakshmi
56	927621BIT056	LENIN S	L.S.	L.S.	L.S.	L.S.
57	927621BIT057	LOGESHWARAN R M	R.M. Logeshwaran	R.M. Logeshwaran	R.M. Logeshwaran	R.M. Logeshwaran
58	927621BIT058	LYDIA M	M. L.C.	M. L.C.	M. L.C.	M. L.C.
59	927621BIT059	MADHAVAN P T A	P.T.A. Madhavan	P.T.A. Madhavan	P.T.A. Madhavan	P.T.A. Madhavan
60	927621BIT060	MADHUMITHA N	N. Madhumitha	N. Madhumitha	N. Madhumitha	N. Madhumitha
61	927621BIT061	MAKISHA S	S. Makisha	S. Makisha	S. Makisha	S. Makisha
62	927621BIT062	MANOJ KANNAN K R	K.R. Manoj Kannan	K.R. Manoj Kannan	K.R. Manoj Kannan	K.R. Manoj Kannan
63	927621BIT063	MEIARUL S	S. Meiarul	S. Meiarul	S. Meiarul	S. Meiarul
64	927621BIT301	ARUL KUMAR T	T. Arul Kumar	T. Arul Kumar	T. Arul Kumar	T. Arul Kumar
65	927621BIT304	NAVEEN PRASATH D	D. Naveen Prasath	D. Naveen Prasath	D. Naveen Prasath	D. Naveen Prasath
66	927621BIT306	PRANESH P	P. Pranesh	P. Pranesh	P. Pranesh	P. Pranesh


Course Coordinator


HOD

b



DEPARTMENT OF INFORMATION TECHNOLOGY

One credit course on "PHP and MySQL"

Attendance Sheet

2022-2023


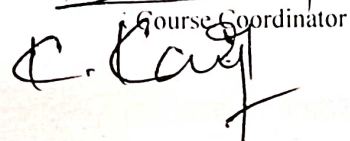
BATCH:2021-2025

YEAR / SEM / SEC : II / IV / B

S No	Roll No	Student Name	17.05.2023 FN	17.05.2023 AN	18.05.2023 FN	18.05.2023 AN
1	927621BIT064	MIDHUN D	Midhun	Midhun	Midhun	Midhun
2	927621BIT065	MITHUN MAIL M	Mithun	Mithun	Mithun	Mithun
3	927621BIT066	MUKESH J	Mukesh	Mukesh	Mukesh	Mukesh
4	927621BIT067	MUKESH K	Mukesh	Mukesh	Mukesh	Mukesh
5	927621BIT068	MUTHUGANESH D	Muthu	Muthu	Muthu	Muthu
6	927621BIT069	NABIL MOHAMED T	Nabil	Nabil	Nabil	Nabil
7	927621BIT070	NAGARAJ P	Nagaraj	Nagaraj	Nagaraj	Nagaraj
8	927621BIT071	NANDHAKUMAR S	Nandha	Nandha	Nandha	Nandha
9	927621BIT072	NASEEM A	Naseem	Naseem	Naseem	Naseem
10	927621BIT073	NAVABHARATHI S	Navabharathi	Navabharathi	Navabharathi	Navabharathi
11	927621BIT074	NAVEEN R	Naveen	Naveen	Naveen	Naveen
12	927621BIT075	NAVEENKUMAR K	Naveenkumar	Naveenkumar	Naveenkumar	Naveenkumar
13	927621BIT076	NIDEESH AG	Nideesh	Nideesh	Nideesh	Nideesh
14	927621BIT077	NIJANTH R	Nijanth	Nijanth	Nijanth	Nijanth
15	927621BIT078	NIKIL N	Nikil	Nikil	Nikil	Nikil
16	927621BIT079	NITHIKA SREE S	Nithika	Nithika	Nithika	Nithika
17	927621BIT080	NIVESH G	Nivesh	Nivesh	Nivesh	Nivesh
18	927621BIT081	NIVETHA K	Nivetha	Nivetha	Nivetha	Nivetha
19	927621BIT082	NIVETHA M	Nivetha	Nivetha	Nivetha	Nivetha
20	927621BIT083	PARVESH S	Parvesh	Parvesh	Parvesh	Parvesh
21	927621BIT084	PAVITHRA P	Pavithra	Pavithra	Pavithra	Pavithra
22	927621BIT085	PIRANAVSHARAN S B	Pirana	Pirana	Pirana	Pirana
23	927621BIT086	PRANESH P	Pranesh	Pranesh	Pranesh	Pranesh

S No	Roll No	Student Name	17.05.2023 FN	17.05.2023 AN	18.05.2023 FN	18.05.2023 AN
24	927621BIT087	PRASANNA BALAJI L	Prasanna	Prasanna	Prasanna	Prasanna
25	927621BIT088	RAJALAKSHMI S	Rajalakshmi	Rajalakshmi	Rajalakshmi	Rajalakshmi
26	927621BIT089	RAJAVISHNU A K	Rajavishnu	Rajavishnu	Rajavishnu	Rajavishnu
27	927621BIT090	RAKSHANA A	Rakshana	Rakshana	Rakshana	Rakshana
28	927621BIT091	RISHI B	Rishi B	Rishi B	Rishi B	Rishi B
29	927621BIT092	RITHU VARSHINI N S	Rithu	Rithu	Rithu	Rithu
30	927621BIT094	RUBIGADEVI R	Rubigadevi	Rubigadevi	Rubigadevi	Rubigadevi
31	927621BIT095	SAMAYA S	Samaya S	Samaya S	Samaya S	Samaya S
32	927621BIT096	SANJAI B	Sanjai B	Sanjai B	Sanjai B	Sanjai B
33	927621BIT097	SANJAI KUMAR S	Sanjai Kumar	Sanjai Kumar	Sanjai Kumar	Sanjai Kumar
34	927621BIT098	SANJAY R	Sanjay R	Sanjay R	Sanjay R	Sanjay R
35	927621BIT099	SANJAY S	Sanjay S	Sanjay S	Sanjay S	Sanjay S
36	927621BIT100	SARAN K	Saran K	Saran K	Saran K	Saran K
37	927621BIT101	SATHYAPRIYA M	Sathyapriya	Sathyapriya	Sathyapriya	Sathyapriya
38	927621BIT102	SHANKAR S	Shankar S	Shankar S	Shankar S	Shankar S
39	927621BIT103	SHRUTI V	Shruti V	Shruti V	Shruti V	Shruti V
40	927621BIT104	SIVANESAN S	Sivanesan S	Sivanesan S	Sivanesan S	Sivanesan S
41	927621BIT105	SIVASANKAR S	Sivasankar S	Sivasankar S	Sivasankar S	Sivasankar S
42	927621BIT106	SOPHIYA THERESA F	Sophiya Theresa	Sophiya Theresa	Sophiya Theresa	Sophiya Theresa
43	927621BIT107	SOWMIYA K	Sowmiya K	Sowmiya K	Sowmiya K	Sowmiya K
44	927621BIT108	SRI RAJA RAJESWARI D	Sri Raja Rajeswari	Sri Raja Rajeswari	Sri Raja Rajeswari	Sri Raja Rajeswari
45	927621BIT109	SUDHA B	Sudha B	Sudha B	Sudha B	Sudha B
46	927621BIT110	SUDHEKSHA B	Sudheksha B	Sudheksha B	Sudheksha B	Sudheksha B
47	927621BIT111	SUTHARSAN G	Sutharsan G	Sutharsan G	Sutharsan G	Sutharsan G
48	927621BIT113	SWATHI G	Swathi G	Swathi G	Swathi G	Swathi G
49	927621BIT115	SYED MUSHARAF S	Syed Musharaf	Syed Musharaf	Syed Musharaf	Syed Musharaf
50	927621BIT116	THANU SHREE K S	Thanu Shree K S	Thanu Shree K S	Thanu Shree K S	Thanu Shree K S
51	927621BIT117	THENDRALARASAN K	Thendralarasan	Thendralarasan	Thendralarasan	Thendralarasan
52	927621BIT118	THENNAVAN M	Thennavan M	Thennavan M	Thennavan M	Thennavan M
53	927621BIT119	THIRUKKUMARAN D	Thirukkumaran	Thirukkumaran	Thirukkumaran	Thirukkumaran

S No	Roll No	Student Name	17.05.2023 FN	17.05.2023 AN	18.05.2023 FN	18.05.2023 AN
54	927621BIT120	VAISHALI S	Vaishali	Vaishali	Vaishali	Vaishali
55	927621BIT121	VANATHI S	Vanathi	Vanathi	Vanathi	Vanathi
56	927621BIT122	VARSHINI L	Varshini	Varshini	Varshini	Varshini
57	927621BIT123	VASU S	Vasu	Vasu	Vasu	Vasu
58	927621BIT124	VIVETHA HARINI S	Vivetha	Vivetha	Vivetha	Vivetha
59	927621BIT125	YUVA SRI K	Yuva	Yuva	Yuva	Yuva
60	927621BIT126	YUVARAJ S	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj
61	927621BIT303	DHEENA DHAYALAN M J	Dheena	Dheena	Dheena	Dheena
62	927621BIT305	PRADEEP T	Pradeep	Pradeep	Pradeep	Pradeep
63	927621BIT307	RAMESH PRABHAKARAN M	Ramesh	Ramesh	Ramesh	Ramesh
64	927621BIT308	SABAPATHI K	Sabapathi	Sabapathi	Sabapathi	Sabapathi
65	927621BIT309	SAKTHIVEL K	Sakthivel	Sakthivel	Sakthivel	Sakthivel
66	927621BIT310	SURENDARAN M	Suren	Suren	Suren	Suren


 Course Coordinator



 HOD


M. KUMARASAMY COLLEGE OF ENGINEERING, KARUR - 639 113

(An Autonomous Institution Affiliated to Anna University, Chennai)

MARK ANALYSIS REPORT

Course Name : PHP AND MYSQL

Course Code : ISTA0031

Batch : 2 year 4 semester IT-A

Test Name : Labcourse examination

Date : 27-5-2023

Name : SRIJAN

S.No	Register Number	Name	Marks
[1].	927621BIT001	AJIRAGUL M	84
[2].	927621BIT002	AJAY V	78
[3].	927621BIT003	AKHIL K	93
[4].	927621BIT004	AMIRTHA C S	86
[5].	927621BIT005	AMRUTHA S	87
[6].	927621BIT006	ANBARASU S	85
[7].	927621BIT007	ASWIN KUMAR S	78
[8].	927621BIT008	AYSHA SIDDIKA M	94
[9].	927621BIT009	BALAHARINI K	86
[10].	927621BIT010	BARATHI S	77
[11].	927621BIT011	BIHARATH RAJ V	87
[12].	927621BIT012	BOMMANESH S	93
[13].	927621BIT013	BOOPATHI M	79
[14].	927621BIT014	BRINDHA S	91
[15].	927621BIT015	CHANDRA MOULI S T	86
[16].	927621BIT016	DARSHAN M S	76
[17].	927621BIT017	DEEBIKA C	91
[18].	927621BIT018	DHANUSH S	88
[19].	927621BIT019	DHANUSH S S	90
[20].	927621BIT020	DHARANEESWARAN S	85
[21].	927621BIT021	DHARANIKUMARAN S K	90
[22].	927621BIT022	DHARSHAN J	89
[23].	927621BIT023	DHARUN KUMAR T	91
[24].	927621BIT024	DHEENA P	86
[25].	927621BIT025	DHILIPKUMAR D	86
[26].	927621BIT026	DHIVINKUMAR A	88
[27].	927621BIT027	ESVANTH M	91
[28].	927621BIT028	GOPINATH V	85
[29].	927621BIT029	GOUDHAMASUNDHARAM S	91
[30].	927621BIT030	GOWTHAMA	79
[31].	927621BIT031	GOWTHAM G	89
[32].	927621BIT032	GUNA K	75
[33].	927621BIT033	HANISH PRASATH R	84
[34].	927621BIT034	HAREESHRAVI S	92
[35].	927621BIT035	INITHA M	89
[36].	927621BIT036	INIYAN B	93
[37].	927621BIT037	JAGADHEESWARAN T	87
[38].	927621BIT038	JAGANNATH M G	76
[39].	927621BIT039	JANARTIHANAN S	82
[40].	927621BIT040	JAYASHREE S	76
[41].	927621BIT041	KABHILAN L	85
[42].	927621BIT042	KAMALA LAKSHMI PRIYA M A	78
[43].	927621BIT043	KANISHKA M	83
[44].	927621BIT044	KAVIKUMARAN R	0
[45].	927621BIT045	KAVIN PRAJITH C	77

Range Analysis

Range	No. of Students
0 - 49	0
50 - 100	65

5/27/23, 12:41 PM
5/27/23, 12:45 PM

2022-2023 EPR Academic MKCE

S.No	Register Number	BACK Name	Marks
[46]	927621BIT046	KAVIPRIYA M	92
[47]	927621BIT047	KEERTHI S S	84
[48]	927621BIT048	KEERTHANAC	86
[49]	927621BIT049	KEERTHANAS	90
[50]	927621BIT050	KEERTHIGAN	79
[51]	927621BIT051	KHAMALESH K	83
[52]	927621BIT052	KIRUTHIKA B	84
[53]	927621BIT053	KISHORE B S	81
[54]	927621BIT054	KUPENDHIRAN R	65
[55]	927621BIT055	LAKSHMI PRABHA R V	81
[56]	927621BIT056	LENIN S	78
[57]	927621BIT057	LOGESHWARAN R M	92
[58]	927621BIT058	LYDIA M	80
[59]	927621BIT059	MADHAVAN P T A	78
[60]	927621BIT060	MADHUMITHA N	87
[61]	927621BIT061	MAKISHA S	92
[62]	927621BIT062	MANOJ KANNAN K R	90
[63]	927621BIT063	MEIARUL S	90
[64]	927621BIT301	ARUI KUMAR T	86
[65]	927621BIT304	NAVEEN PRASATH D	90
[66]	927621BIT306	PRANESH P	88

No.Of.Present :65

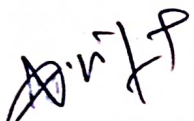
No.Of.Absentee:1

No.Of.Pass :65

No.Of.Fail :0

Total Strength:66

Pass % :100.00



Signature of the Faculty



Class Advisor



Head of the Department

M. KUMARASAMY COLLEGE OF ENGINEERING, KARUR - 639 113

(An Autonomous Institution Affiliated to Anna University, Chennai)

MARK ANALYSIS REPORT

Course Name : PHP AND MYSQL

Course Code : 18ITN0031

Batch : B SECTION

Test Name : Lab/course examination

Date : 26-5-2023

Name : MEKALAR

S.N.	Register Number	Name	Marks
[1]	927621BIT064	MIDHUN D	95
[2]	927621BIT065	MITHUN MAIL M	92
[3]	927621BIT066	MUKESH J	94
[4]	927621BIT067	MUKESH K	93
[5]	927621BIT068	MUTHUGANESH D	96
[6]	927621BIT069	NABIL MOHAMED T	94
[7]	927621BIT070	NAGARAJ P	82
[8]	927621BIT071	NANDHAKUMAR S	94
[9]	927621BIT072	NASEEM A	92
[10]	927621BIT073	NAVABHARATHI S	90
[11]	927621BIT074	NAVEEN R	81
[12]	927621BIT075	NAVELI KUMAR K	91
[13]	927621BIT076	NIDEE SH A G	92
[14]	927621BIT077	NIJANTH R	83
[15]	927621BIT078	NIKIL N	93
[16]	927621BIT079	NITHIKA SREE S	96
[17]	927621BIT080	NIVESH G	96
[18]	927621BIT081	NIVETHA K	94
[19]	927621BIT082	NIVETHA M	95
[20]	927621BIT083	PARVESH S	88
[21]	927621BIT084	PAVITHIRA P	90
[22]	927621BIT085	PIRANAVSHARAN S B	84
[23]	927621BIT086	PRANESH P	82
[24]	927621BIT087	PRASANNA BALAJI L	91
[25]	927621BIT088	RAJALAKSHMI S	93
[26]	927621BIT089	RAJAVISHNU A K	91
[27]	927621BIT090	RAKSHANA A	93
[28]	927621BIT091	RISHI B	80
[29]	927621BIT092	RITHU VARSHINI N S	92
[30]	927621BIT094	RUBIGADEVI R	95
[31]	927621BIT095	SAMAYA S	92
[32]	927621BIT096	SANJAI B	94
[33]	927621BIT097	SANJAI KUMAR S	95
[34]	927621BIT098	SANJAY R	83
[35]	927621BIT099	SANJAY S	95
[36]	927621BIT100	SARAN K	93
[37]	927621BIT101	SATHYAPRIYA M	96
[38]	927621BIT102	SHANKAR S	96
[39]	927621BIT103	SHIRU TIV	91



V...
Thalavapala...

Range Analysis

Range	No. of Students
0 - 49	0
50 - 100	66

S.No.	Register Number	Name	Marks
[40].	927621BIT104	SIVANESAN S	82
[41].	927621BIT105	SIVASANKAR S	98
[42].	927621BIT106	SOPHIYA THERESA F	92
[43].	927621BIT107	SOWMIYA K	93
[44].	927621BIT108	SRI RAJA RAJESWARI D	81
[45].	927621BIT109	SUDHA B	92
[46].	927621BIT110	SUDHIKSHIA B	93
[47].	927621BIT111	SUTHARSAN G	80
[48].	927621BIT113	SWATHI G	96
[49].	927621BIT115	SYED MUSHARAF S	80
[50].	927621BIT116	THANU SHREE K S	93
[51].	927621BIT117	THENDRALARASAN K	95
[52].	927621BIT118	THENNAVAN M	93
[53].	927621BIT119	THIRUKKUMARAN D	92
[54].	927621BIT120	VAISHALI S	96
[55].	927621BIT121	VANATHI S	95
[56].	927621BIT122	VARSHINI L	95
[57].	927621BIT123	VASU S	92
[58].	927621BIT124	VIVETHA HARINI S	93
[59].	927621BIT125	YUVA SRI K	95
[60].	927621BIT126	YUVARAJ S	92
[61].	927621BIT303	DHIFENA DHAYALAN M J	85
[62].	927621BIT305	PRADEEPT	86
[63].	927621BIT307	RAMESHPRAHAKARAN M	82
[64].	927621BIT308	SABAPATHI K	84
[65].	927621BIT309	SAKTHIVEL K	83
[66].	927621BIT310	SURENDARAN M	88

No.Of.Present :66

No.Of.Absentee:0

No.Of.Pass :66


No.Of.Fail :0

Total Strength:66

Pass % :100.00


Signature of the Faculty


Class Advisor


Head of the Department



M.KUMARASAMY

COLLEGE OF ENGINEERING

NAAC Accredited Autonomous Institution

Approved by AICTE & Affiliated to Anna University
ISO 9001:2015 & ISO 14001:2015 Certified Institution

Thalavapalayam, Karur - 639 113.



Department of Mechanical Engineering

**CORDIALLY INVITE YOU FOR
ONE CREDIT COURSE**

ON

*Basic Industrial Safety, Fire Fighting
and First Aid Awareness Programme*

By

Mr. I. A. M. Abdullah

Manager, IQTSM, Salem

Venue : - PG Meeting Hall, Dr.S.Radhakrishnan Block Date : - 21 & 22 Nov 2022 @ 9.00 AM

Dr. K. Ramakrishnan
Secretary

Dr. S. Kuppusamy
Executive Director

Dr. N. Ramesh Babu
Principal

Dr. M. Mohan Prasad
HoD / Mech

Dr. N. Parthipan
Co-ordinator



M.KUMARASAMY

COLLEGE OF ENGINEERING

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ISO 9001:2015 & ISO 14001:2015 Certified Institution

Thalavapalayam, Karur - 639 113.



**ONE CREDIT COURSE ON BASIC INDUSTRIAL SAFETY, FIRE
FIGHTING AND FIRST AID AWARENESS PROGRAMME**

Conducted by

**INSTITUTE OF QUALITY TECHNICAL SAFETY MANAGEMENT,
SALEM**

(21.11.2022 & 22.11.2022)

PROGRAMME SCHEDULE

DETAILS OF SESSIONS			
21.11.2022 (Monday)		22.11.2022 (Tuesday)	
10:00 am -11:00 am	Inaugural function at Vivekananda Hall, Dr.Radhakrishnan Block - FF	10:00 am -11:00 am	Awareness on industrial accidents and its remedial action
11:00 am -11:15 am	Tea Break	11:00 am -11:15 am	Tea Break
11:15 am -12:30 pm	Demonstration on First aid techniques for accident prone victims using CPR	11:15 am -12:30 pm	Demonstration on rescuing techniques in a fire occupied building and PPEs
12:30 pm -01:30 pm	Lunch Break	12:30 pm -01:30 pm	Lunch Break
01:30 pm -03:00 pm	Awareness on causes and effects of snake bites and dog bites	01:45 pm -03:00 pm	Training on portable fire extinguisher Venue: Open ground
03:00 pm -03:15 pm	Tea Break	03:00 pm -03:15 pm	Tea Break
03:15 pm -05:10 pm	Demonstration on handling victims suffering with muscular sprains, ligament injury and bone dislocation	03:15 pm -04:30 pm	Valedictory Function at Vivekananda Hall, Dr.S.Radhakrishnan Block - FF

Venue: Vivekananda Hall, Dr.S.Radhakrishnan Block - First Floor

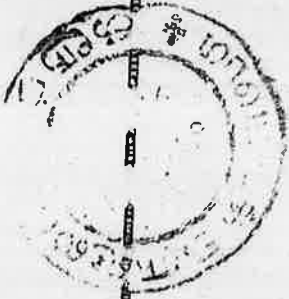
NOTE:

On **21.11.2022 & 22.11.2022** (Two Days), II year Mechanical Students & Faculty members acquired knowledge on **First aid and Safety** through basic demonstrations.



தமிழ்நாடு தமில்நாடு TAMIL NADU

27AA 108359



M. KUMARASAMY COLLEGE OF
ENGINEERING,
THALAVAPALAYAM,
KARUR - 639113.
Phone: 04324 - 270755, 272155

M. Ravi Chandran,
S.V. T. Nagar,
Salem - 636 004.
7930
24.9.08
(20)

Memorandum of Understanding

M/s. M.Kumarasamy College of Engineering, Thalavapalayam, Karur, Taminadu, India - 639113. Which expressions shall include its successors in the field of Education and imparting knowledge to the students aspiring to be Engineers, Technologists, Entrepreneurs and Managers. This Memorandum of Understanding is engaged under the Mechanical Engineering department of M.Kumarasamy College of Engineering

&

Institute of Quality Technical Safety Management (IQTS) No: 23A, 3rd Floor, Vasantham Complex, N.V.K Nagar, Near Kalyan silks New Bus stand, Salem, Taminadu, India -636 004. Here in after called IQTS, which expressions shall include its successors in the field of Fire Engineering and Safety Management.

[Signature]

[Signature]

And whereas both M.Kumarasamy College of Engineering and Institute of Quality Technical Safety Management (IQTS) have agreed to enter into the Memorandum of Understanding to carry out activities from the following aspects for mutual benefits.

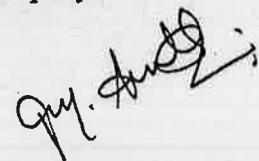
To

1. Providing safety awareness program for the students and staff,
2. Industry experts interaction with M.Kumarasamy college of engineering, Karur, by organizing Seminars, Webinars, workshops, Guest lectures and Faculty Development Programme (FDP),
3. Providing Internship, inplant training, and industrial visit for the students,
4. To facilitate faculty involvement in R&D activities,
5. Providing placements for the students.
6. Conducting value added courses.
7. Involving students in conduct of awareness camps and Entrepreneurship development programmes.

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It is mutually agreed that M.Kumarasamy College of Engineering, Karur and Institute of Quality Technical Safety Management (IQTS) are acting under this MoU as independent contractors and the relationship established under this MoU shall not be construed as a partnership. Neither party is authorized to use the other party's name in any way to make any representations nor create any obligation of liability, expressed or implied on behalf of the other party, without prior written consent of the other party. Neither party shall have, nor respect itself as having any authority under the terms of this MoU to make arrangements of any kind in the name of both binding upon the other party to pledge the party's credit or to extend credit on behalf of the other party.



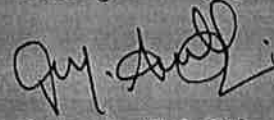
Both parties have full rights to terminate this MoU at any time by giving a notice of one month. The MoU will be valid for a period of Five years from the date of signing and can be renewed at the option for both the parties after expiry. This Memorandum of Understanding is entered and executed on 21.11.2022.

For M.Kumarasamy College of Engineering,
Karur



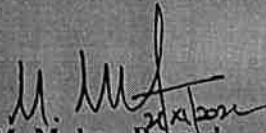
Dr. N. Ramesh Babu
Principal,
M.Kumarasamy College of Engineering,
Thalavapalayam, Karur: 639113,
Tamil Nadu, India.

For Institute of Quality Technical Safety
Management (IQTS)




Mr. I. A. M. Abdullah
Centre Co-ordinator
Institute of Quality Technical Safety
Management (IQTS), Salem: 636 004
Tamil Nadu, India.

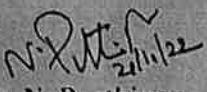
Witness



1. **Dr. M. Mohan Prasad**
Head of the Department
Department of Mechanical Engineering
M.Kumarasamy College of Engineering
Thalavapalayam, Karur : 639 113
TamilNadu
India



1. **Mr. Jhon Greatson**
Department Head – HSE
Institute of Quality Technical Safety
Management (IQTS), Salem: 636 004
Tamil Nadu
India



2. **Dr. N. Parthipan**
Department of Mechanical Engineering
Assistant Professor
M.Kumarasamy College of Engineering
Thalavapalayam, Karur: 639113
TamilNadu, India





Students' Attendance for One Credit Course titled "Basic Industrial Safety, Fire Fighting and First Aid Awareness Programme on 21 & 22-11-2022"

S.No	Roll no	Name of the student	Signature			
			21-11-2022 (FN)	21-11-2022 (AN)	22-11-2022 (FN)	22-11-2022 (AN)
1	927621BME001	AKASH.M	M. Akash	M. Akash	M. Akash	M. Akash
2	927621BME002	AMIRTHA M	M. Amirtha	M. Amirtha	M. Amirtha	M. Amirtha
3	927621BME003	ARAVINDH MANGALAM V	A. Aravindh	A. Aravindh	A. Aravindh	A. Aravindh
4	927621BME004	ARAVINDH S	A. Aravindh	A. Aravindh	A. Aravindh	A. Aravindh
5	927621BME005	ARUNJ	S. Arun	S. Arun	S. Arun	S. Arun
6	927621BME006	ATHISH.N	N. Athish	N. Athish	N. Athish	N. Athish
7	927621BME007	BARANI KARTHIK M	M. Barani	M. Barani	M. Barani	M. Barani
8	927621BME008	BHUVANESWARAN K	K. Bhuvan	K. Bhuvan	K. Bhuvan	K. Bhuvan
9	927621BME009	DHANUSH M	M. Dhannush	M. Dhannush	M. Dhannush	M. Dhannush
10	927621BME010	DHANVARSH D	D. Dhannush	D. Dhannush	D. Dhannush	D. Dhannush
11	927621BME011	DHARSHAN M	M. Dhannush	M. Dhannush	M. Dhannush	M. Dhannush
12	927621BME012	DHINO KEVIN B	B. Dhino	B. Dhino	B. Dhino	B. Dhino
13	927621BME013	DINAKAR.K	K. Dhinar	K. Dhinar	K. Dhinar	K. Dhinar
14	927621BME014	GOKUL P	P. Gokul	P. Gokul	P. Gokul	P. Gokul
15	927621BME015	GOKULHASAN.P	P. Gokul	P. Gokul	P. Gokul	P. Gokul
16	927621BME016	GOKUL KANNAN	P. Gokul	P. Gokul	P. Gokul	P. Gokul
17	927621BME017	GOWSHAN S	S. Gowshan	S. Gowshan	S. Gowshan	S. Gowshan
18	927621BME018	GUHALSELVAN G	G. Guhal	G. Guhal	G. Guhal	G. Guhal
19	927621BME019	GUNASEKARAN. J	J. Gunasekaran	J. Gunasekaran	J. Gunasekaran	J. Gunasekaran
20	927621BME020	HARIHARASIVARAMAN	N. Hariharan	N. Hariharan	N. Hariharan	N. Hariharan
21	927621BME021	A HEMATH KUMAR	A. Hemath	A. Hemath	A. Hemath	A. Hemath
22	927621BME022	IMAYA VAN.D	D. Imaya	D. Imaya	D. Imaya	D. Imaya
23	927621BME023	KAMESH M P	P. Kamesh	P. Kamesh	P. Kamesh	P. Kamesh
24	927621BME024	KARTHI KEYAN.S	S. Karthi	S. Karthi	S. Karthi	S. Karthi
25	927621BME025	KAVIN A	A. Karthi	A. Karthi	A. Karthi	A. Karthi
26	927621BME026	KEERTHIRAJAN G	G. Keerthi	G. Keerthi	G. Keerthi	G. Keerthi
27	927621BME027	KISHORE.R	R. Kishore	R. Kishore	R. Kishore	R. Kishore
28	927621BME028	KOWSHIK V	V. Kowshik	V. Kowshik	V. Kowshik	V. Kowshik
29	927621BME029	LOKESHNATH M	M. Lokeshnath	M. Lokeshnath	M. Lokeshnath	M. Lokeshnath
30	927621BME030	K. MADHESHWARAN	K. Madhan	K. Madhan	K. Madhan	K. Madhan
31	927621BME031	MADHAN S	S. Madhan	S. Madhan	S. Madhan	S. Madhan
32	927621BME032	MADHANKUMAR G	G. Madhan	G. Madhan	G. Madhan	G. Madhan
33	927621BME033	MALARAVAN S	S. Malaravan	S. Malaravan	S. Malaravan	S. Malaravan
34	927621BME034	M S MANOOJ	M. S. Manoj	M. S. Manoj	M. S. Manoj	M. S. Manoj
35	927621BME035	MONISH KUMAR M	M. Monish	M. Monish	M. Monish	M. Monish
36	927621BME036	MUTHU SETHUPATHY S	S. Muthu	S. Muthu	S. Muthu	S. Muthu
37	927621BME037	MUTHUKANI.M	M. Muthukan	M. Muthukan	M. Muthukan	M. Muthukan
38	927621BME038	MUTHUKUMAR S	S. Muthu	S. Muthu	S. Muthu	S. Muthu
39	927621BME039	NIGIL RAGAVENTHIRA S	S. Nigil	S. Nigil	S. Nigil	S. Nigil
40	927621BME040	NITHIN V	V. Nithin	V. Nithin	V. Nithin	V. Nithin
41	927621BME041	PRAKASH M	M. Prakash	M. Prakash	M. Prakash	M. Prakash
42	927621BME042	PRANEETH R	R. Praneeth	R. Praneeth	R. Praneeth	R. Praneeth
43	927621BME043	PRASANNA V	V. Praneeth	V. Praneeth	V. Praneeth	V. Praneeth
44	927621BME044	PRATHISH M	M. Praneeth	M. Praneeth	M. Praneeth	M. Praneeth
45	927621BME045	RAGUL R	R. Ragul	R. Ragul	R. Ragul	R. Ragul

S.No	Roll no	Name of the student	Signature			
			21-11-2022 (FN)	21-11-2022 (AN)	22-11-2022 (FN)	22-11-2022 (AN)
46	927621BME046	RAJESH M	M. Rajesh	M. Rajesh	M. Rajesh	M. Rajesh
47	927621BME047	RAJESWARAN K	K. Rajeswar	K. Rajeswar	K. Rajeswar	K. Rajeswar
48	927621BME048	SAILESH C S	Sailesh C S	Sailesh C S	Sailesh C S	Sailesh C S
49	927621BME049	SAKTHIVEL R	Sakthivel R	Sakthivel R	Sakthivel R	Sakthivel R
50	927621BME050	SAMIYULLA V E	V. E. Samiyulla	V. E. Samiyulla	V. E. Samiyulla	V. E. Samiyulla
51	927621BME051	SANTHOSH L	L. Santhosh	L. Santhosh	L. Santhosh	L. Santhosh
52	927621BME052	SANTHOSH M	M. S. Santhosh	M. S. Santhosh	M. S. Santhosh	M. S. Santhosh
53	927621BME053	SANTHOSH S V	S. V. Santhosh	S. V. Santhosh	S. V. Santhosh	S. V. Santhosh
54	927621BME054	SARANRAJ R	R. Saranraj	R. Saranraj	R. Saranraj	R. Saranraj
55	927621BME055	SARAVANAKUMAR A	A. Saravanan	A. Saravanan	A. Saravanan	A. Saravanan
56	927621BME056	SASITHARAN R	R. Sasitharan	R. Sasitharan	R. Sasitharan	R. Sasitharan
57	927621BME057	SETHU MADHAVAN M	M. S. S. Sethu	M. S. S. Sethu	M. S. S. Sethu	M. S. S. Sethu
58	927621BME058	SILAMBARASAN D	D. Silambarasan	D. Silambarasan	D. Silambarasan	D. Silambarasan
59	927621BME059	SIVASAMY P	P. Sivasamy	P. Sivasamy	P. Sivasamy	P. Sivasamy
60	927621BME060	SRI NATH L	L. Sri Nath	L. Sri Nath	L. Sri Nath	L. Sri Nath
61	927621BME061	SRIRAM T	T. Sriram	T. Sriram	T. Sriram	T. Sriram
62	927621BME062	SUDESH KUMAR J	J. Sudesh	J. Sudesh	J. Sudesh	J. Sudesh
63	927621BME063	SUGUVANAN R	R. Suguvan	R. Suguvan	R. Suguvan	R. Suguvan
64	927621BME064	SUPREET S	S. Supreet	S. Supreet	S. Supreet	S. Supreet
65	927621BME065	TAMILSELVAN V	V. Tamilselvan	V. Tamilselvan	V. Tamilselvan	V. Tamilselvan
66	927621BME066	THIYANESHWAR ASHOKA N	N. Ashokan	N. Ashokan	N. Ashokan	N. Ashokan
67	927621BME067	VETRIVEL S	S. Vetrivel	S. Vetrivel	S. Vetrivel	S. Vetrivel
68	927621BME068	VIGNESH KARTHIKEYAN K	K. Vignesh	K. Vignesh	K. Vignesh	K. Vignesh
69	927621BME069	VIMAL VELAN S	S. Vimal	S. Vimal	S. Vimal	S. Vimal
70	927621BME070	VIMALKUMAR R	R. Vimal	R. Vimal	R. Vimal	R. Vimal
71	927621BME071	VISHNU DHAR D	D. Vishnu	D. Vishnu	D. Vishnu	D. Vishnu
72	927621BME072	VISHWA B	B. Vishwa	B. Vishwa	B. Vishwa	B. Vishwa
73	927621BME073	VISSHNU S	S. Vishnu	S. Vishnu	S. Vishnu	S. Vishnu
74	927621BME074	YUGESHWARAN S	S. Yugesh	S. Yugesh	S. Yugesh	S. Yugesh
75	927621BME301	ABIK KUMAR V	V. Abik	V. Abik	V. Abik	V. Abik
76	927621BME302	ADHITHYAN A	A. Adhithyan	A. Adhithyan	A. Adhithyan	A. Adhithyan
77	927621BME303	ANBARASU V	V. Anbarasu	V. Anbarasu	V. Anbarasu	V. Anbarasu
78	927621BME304	ARUN KUMAR A	A. Arun	A. Arun	A. Arun	A. Arun
79	927621BME305	CHANDRA PRASAAD M	M. Chandras	M. Chandras	M. Chandras	M. Chandras
80	927621BME306	DHARUN P	P. Dharaun	P. Dharaun	P. Dharaun	P. Dharaun
81	927621BME307	GOWSIKAN R S	S. Gowshikan	S. Gowshikan	S. Gowshikan	S. Gowshikan
82	927621BME308	JEEVA P	P. Jeeva	P. Jeeva	P. Jeeva	P. Jeeva
83	927621BME309	JOHN FERNANDEZ N	N. John	N. John	N. John	N. John
84	927621BME311	KISHORE S	S. Kishore	S. Kishore	S. Kishore	S. Kishore
85	927621BME312	KISHWAR M	M. Kishwar	M. Kishwar	M. Kishwar	M. Kishwar
86	927621BME313	KRISHNA CHARAN	Charan Krishna	Charan Krishna	Charan Krishna	Charan Krishna
87	927621BME314	KRISHNA R	R. Krishna	R. Krishna	R. Krishna	R. Krishna
88	927621BME315	LOGESHWARAN B	B. Logeshwar	B. Logeshwar	B. Logeshwar	B. Logeshwar
89	927621BME316	MANIKANDESHWARAN D	D. Manikand	D. Manikand	D. Manikand	D. Manikand
90	927621BME317	MOHAMMAD IDREES T S	S. T. Idrees	S. T. Idrees	S. T. Idrees	S. T. Idrees
91	927621BME318	MOHAN M	M. Mohan	M. Mohan	M. Mohan	M. Mohan
92	927621BME319	MONISH M	M. Monish	M. Monish	M. Monish	M. Monish
93	927621BME320	NANDA KRISHNAN V	V. Nandakrish	V. Nandakrish	V. Nandakrish	V. Nandakrish
94	927621BME321	NA VEEN KUMAR N	N. Navaneeth	N. Navaneeth	N. Navaneeth	N. Navaneeth
95	927621BME322	NA VEEN M	M. Navaneeth	M. Navaneeth	M. Navaneeth	M. Navaneeth

S.No.	Roll no	Name of the student	Signature			
			21-11-2022 (FN)	21-11-2022 (AN)	22-11-2022 (FN)	22-11-2022 (AN)
96	927621BME323	NIDISH M	M. Nidish	M. Nidish	M. Nidish	M. Nidish
97	927621BME324	PRASANNA K	Prasanna	Prasanna	Prasanna	Prasanna
98	927621BME325	PRATESH K	Pratesh K	Pratesh K	Pratesh K	Pratesh K
99	927621BME326	RITHICK M	M. Rithick	M. Rithick	M. Rithick	M. Rithick
100	927621BME327	SAKTHIVELAN P	P. Sakthivelan	P. Sakthivelan	P. Sakthivelan	P. Sakthivelan
101	927621BME328	SANJAY R	R. Sanjay	R. Sanjay	R. Sanjay	R. Sanjay
102	927621BME329	SANTHOSH KUMAR S	S. Santhosh Kumar	S. Santhosh Kumar	S. Santhosh Kumar	S. Santhosh Kumar
103	927621BME330	SANTHOSH SIVAN M	M. Santhosh Sivan	M. Santhosh Sivan	M. Santhosh Sivan	M. Santhosh Sivan
104	927621BME331	SHEIK MUHAMMED SHIMAR K M	Shimar	Shimar	Shimar	Shimar
105	927621BME332	SIRAJUDEEN H	H. Sirajudeen	H. Sirajudeen	H. Sirajudeen	H. Sirajudeen
106	927621BME333	SRIVENKATESH J	J. Sri Venkatesh	J. Sri Venkatesh	J. Sri Venkatesh	J. Sri Venkatesh
107	927621BME334	SUJITH A	A. Sujith	A. Sujith	A. Sujith	A. Sujith
108	927621BME335	SUKANT K	K. Sukant	K. Sukant	K. Sukant	K. Sukant
109	927621BME336	SURENDAR M	M. Surender	M. Surender	M. Surender	M. Surender
110	927621BME337	SURYA C	C. Surya	C. Surya	C. Surya	C. Surya
111	927621BME338	VARADHARAJ B	B. Varadharaj	B. Varadharaj	B. Varadharaj	B. Varadharaj
112	927621BME339	VINOTH V	V. Vinoth	V. Vinoth	V. Vinoth	V. Vinoth
113	927621BME340	VISHNU R	R. Vishnu	R. Vishnu	R. Vishnu	R. Vishnu
114	927621BME341	YOONUS KHAN P	P. Yonus Khan	P. Yonus Khan	P. Yonus Khan	P. Yonus Khan
115	927621BME342	YUVARAJ N	N. Yuvaraj	N. Yuvaraj	N. Yuvaraj	N. Yuvaraj

M. Rithick
Co-ordinator

M. Rithick
HOD (MECH)

**M.Kumarasamy College of Engineering - One Credit Course on FIRE AND SAFETY AWARENESS PROGRAM
Feedback - One Credit Course Conducted on 21.11.2022 & 22.11.2022 by Mr. I.A.M Abdullah, Manager, IQTS, Salem.**

S. No	Timestamp	Name of the Student in Capital Letters	Register Number	Year	Section	Content Relevance to the Topic	Satisfied with the Curriculum	Overall Rating of the Session	Appreciations If any	Suggestions for Improvement, If any
1	11-30-2022 15:48:25	S. VETRIVEL	927621BME067	II Year	A	4	5	4	No	No
2	11-30-2022 15:50:31	P. SAKTHIVELAN	92762BME327	II Year	A	4	4	4	They Very Well In Their Explanation And Doing Good Most Useful Activities In Fire & Safety	Nothing
3	11-30-2022 15:51:35	MUTHU SETHUPATHY S	927621BME036	II Year	A	5	5	5	Good teaching keep it up	No suggestions
4	11-30-2022 15:52:48	AMIRTHA M	927621BME002	II Year	A	5	5	5	Learned more about safety	-
5	11-30-2022 15:55:05	YUGESHWARAN	927621BME074	II Year	B	3	3	3	No	No
6	11-30-2022 15:57:00	VISHNU DHAR D	927621BME071	II Year	B	3	4	5	Good	..
7	11-30-2022 15:57:18	ARUN KUMAR.A	927621BME304	II Year	B	3	4	5	Iam studied new topic of this session	Extra cources can
8	11-30-2022 15:59:37	V.Prasanna	927621BME043	II Year	B	5	5	5	Well done	Partical experience
9	11-30-2022 15:59:37	SANTHOSH L	927621BME051	II Year	B	5	5	5	Good	Nil
10	11-30-2022 16:01:08	ATHISH.N	927621BME006	II Year	A	5	4	4	Activities	Deep explanation
11	11-30-2022 16:07:07	SASITHARAN R	927621BME066	II Year	B	5	5	4	No	No
12	11-30-2022 16:08:13	SAKTHIVEL R	927621BME049	II Year	B	5	5	5	Nil	Nil
13	11-30-2022 16:08:17	PRATHISH M	927621BME044	II Year	B	5	5	5	Nil	Nil
14	11-30-2022 16:10:07	DHARSHAN	927621BME011	II Year	A	5	5	4	Excellent	Safe ride
15	11-30-2022 16:10:15	CHANDRA PRASAAD M	927621BME305	II Year	A	4	4	4	.	.
16	11-30-2022 16:10:18	GOKULHASAN P	927621BME015	II Year	A	5	5	5	Wonderful Session For Learning About fire and safety Management	No.
17	11-30-2022 16:11:07	LOKESHNATH M	927621BME029	II Year	A	4	4	5	We had a good experience with the fire and safety department.	The session may be little bit longer extended.
18	11-30-2022 16:11:33	KOWSHIK	92762bme028	II Year	A	3	3	5	Fire extinguisher demo	Nothing

19	11-30-2022 16:11:43	Dinakar.K	927621bme013	II Year	A	4	4	5	Fire extinguisher demo	Nothing
20	11-30-2022 16:11:45	PRASANNA.K	927621BME324	II Year	A	2	4	5	Fire extinguishers	Nothing
21	11-30-2022 16:12:11	M MONISH KUMAR	927621BME035	II Year	A	4	4	4	Nice	Good
22	11-30-2022 16:12:18	DHARUN P	927621BME306	II Year	A	5	3	5	RIRE FIGHTING	SAFTY
23	11-30-2022 16:13:27	N. HARIHARASIVARAMAN	927621BME020	II Year	A	5	4	4	The course was really good and very useful. The practical experience of the fire safety was good. I am able to gain knowledge about fire safety through it.	Nil
24	11-30-2022 16:13:31	PRATESH K	927621BME325	II Year	A	5	5	5	Fabulous experience	Nil
25	11-30-2022 16:13:50	GUNASEKARAN .J	927621BME019	II Year	A	5	4	2	Nothing	All good
26	11-30-2022 16:13:53	GOWSHAN. S	927621BME017	II Year	A	5	4	4	GOOD	Everything's good
27	11-30-2022 16:14:19	KRISHNA .R	927621BME314	II Year	A	5	5	5	Good	Super
28	11-30-2022 16:14:36	JEEVA.P	927621BME308	II Year	A	4	4	5	SAFZY PRICATION	FIRE FITING
29	11-30-2022 16:15:25	M PRAKASH	927621BME041	II Year	B	5	5	5	Very good	No
30	11-30-2022 16:21:02	MOHAMMAD IDREES.T.S	927621BME317	II Year	A	5	5	5	Good	Improving more practical information
31	11-30-2022 16:22:27	KAVIN A	927621bme025	II Year	A	5	5	5	excellent	Be safe
32	11-30-2022 16:24:57	ARUN J	927621BME005	II Year	A	5	5	5	Very good	Nothing
33	11-30-2022 16:34:22	ANBARASU V	927621BME303	II Year	A	5	5	5	Good	More practical teaching
34	11-30-2022 16:41:55	VINOTH V	927621BME339	II Year	B	4	4	4	GOOD	More technical activity
35	11-30-2022 16:45:13	SAMIYULLA V E	927621bme050	II Year	B	5	5	5	It's Good and Satisfying	No It's Enough for My carrer
36	11-30-2022 16:56:54	MONISH M	22LME002	II Year	A	5	5	5	It is very useful for us. Thankyou for the course.	No
37	11-30-2022 16:57:33	SUKANT.K	927621BME335	II Year	B	4	5	4	Exllecent	Good
38	11-30-2022 17:00:50	VIMAL KUMAR.R	927621BME070	II Year	B	5	5	5	Good	Good
39	11-30-2022 17:01:54	V.TAMILSELVAN	927621BME065	II Year	B	5	5	5	Good	Good

40	11-30-2022 17:05:21	S NIGIL RAGAVENTHIRA	927621BME039	II Year	B	4	4	4	It will introduced to learn and then I will learn Easy	We need more information to learn like this
41	11-30-2022 17:19:28	MADHANKUMAR G	927621BME032	II Year	A	4	4	3	Good	Improve all content to demo
42	11-30-2022 17:28:25	SRI NATH . L	927621BME060	II Year	B	5	5	5	good	satisfied
43	11-30-2022 17:31:32	SETHU MADHAVAN M	927621BME057	II Year	B	5	5	5	Good	Nil
44	11-30-2022 17:32:45	VISSHNU S	927621BME073	II Year	B	4	4	4	NO	NO
45	11-30-2022 18:04:43	NAVEEN M	927621BME322	II Year	A	5	5	5	Teaching techniques is very good	No
46	11-30-2022 18:04:48	JOHN FERNANDEZ N	927621BME309	II Year	A	5	5	5	Good teaching	No
47	11-30-2022 18:07:17	NITHIN.V	927621BME040	II Year	B	5	5	5	Nil	Nil
48	11-30-2022 18:19:49	MOHAN M	927621BME318	II Year	A	5	5	5	It's Excellent for every person and I will mostly liked for the First aid thing.	Yes, I was so most learned for the First aid and for the fire safety those cylinder's to be used exactly.
49	11-30-2022 18:30:43	BARANI KARTHIK.M	927621BME007	II Year	A	5	5	5	The explanation about the content was super	There is no need of any improvement
50	11-30-2022 19:12:34	MALARAVAN S	927621BME033	II Year	A	5	5	5	Good and useful	No idea
51	11-30-2022 19:45:12	NANDA KRISHNAN	927621BME320	II Year	B	5	5	5	Excellent	Keep doing
52	11-30-2022 20:57:28	THIYANESHWAR ASHOKA N	927621BME066	II Year	B	5	5	5	Very nice awareness program with good on stop illustration and so There is no word to appreciate.	If any more awareness is giving can also be included at next session
53	11-30-2022 21:01:41	MUTHUKUMAR S	927621BME038	II Year	B	5	3	4	Good	No
54	12-1-2022 10:28:03	Kishwar.M	927621bme312	II Year	A	1	1	1	Nothing	All must be improved
55	12-1-2022 10:28:23	GOKUL P	927621bme014	II Year	A	1	1	1	Nothing	Nothing
56	12-1-2022 10:28:55	Sailesh	927621BME048	II Year	B	3	4	4	Good experience	To do a lot off pratical experience
57	12-1-2022 10:29:29	SUDESH KUMAR H	927621BME062	II Year	B	5	5	5	Good	Nil
58	12-1-2022 10:29:38	SILAMBARASAN D	927621BME058	II Year	B	5	5	5	Good	Nil
59	12-1-2022 10:29:41	CHANDRA PRASAAD M	927621BME305	II Year	A	5	5	5	GOOD	Need More Interaction
60	12-1-2022 10:30:03	MUTHUKANI.M	927621BME037	II Year	A	5	5	5	Excellent	Safe appreciate

61	12-1-2022 10:30:14	K.M: SHEIK MUHAMMED SHIMAR	927621BME331	II Year	B	3	3	3	Good	Nil
62	12-1-2022 10:30:26	VIMAL KUMAR.R	927621BME070	II Year	B	5	5	5	Good	Good
63	12-1-2022 10:30:36	VARADHARAJ B	927621BME338	II Year	B	2	2	2	Good	Nil
64	12-1-2022 10:31:03	SRIRAM T	927621BME061	II Year	B	5	5	5	GOOD	Good
65	12-1-2022 10:32:28	YUVARAJ	927621BME342	II Year	B	4	3	4	Good	No
66	12-1-2022 10:32:57	VISHWA B	927621BME072	II Year	B	5	5	4	Way of teaching and explaining and testing of materials is good	Keep going.
67	12-1-2022 10:37:36	NAVEEN KUMAR N	927621BME321	II Year	A	5	5	5	EXCELLENT	No
68	12-1-2022 10:37:41	KISHORE.S	927621BME311	II Year	A	5	5	5	Good teaching	No
69	12-1-2022 10:38:11	RITHICK M	927621BME326	II Year	B	5	5	5	Good teaching	No
70	12-1-2022 10:39:50	A SUJITH	927621BME334	II Year	B	5	5	5	I can learn this course first time	Course will be benefite to me
71	12-1-2022 10:44:45	YOONUS KHAN.P	927621BME341	II Year	B	5	5	5	Very good	Everything is good
72	12-1-2022 10:45:13	SANTHOSH KUMAR.S	927621bme329	II Year	B	4	4	3		No
73	12-1-2022 10:46:13	R.VISHNU	927621BME340	II Year	B	5	5	5	Thank you for your tutorial	Yes I improved little
74	12-1-2022 10:46:20	SARANRAJ R	927621BME054	II Year	B	2	1	3	No	No
75	12-1-2022 13:10:50	K.VIGNESH KARTHIKEYAN	927621bme068	II Year	B	5	5	5	Very good	Nothing
76	12-1-2022 13:27:35	M. SANTHOSH	927621BME052	II Year	B	1	2	3	No	No
77	12-1-2022 14:22:05	SIVASAMY P	927621BME059	II Year	B	5	4	4	Nil	Nil
78	12-1-2022 14:23:25	SANTHOSH S.V	927621BME053	II Year	B	4	4	4	Nil	Nil


One Credit Course Co-ordinator


HoD/Mech

M.Kumarasamy College of Engineering - One Credit Course on FIRE AND SAFETY AWARENESS PROGRAM

Feedback - One Credit Course Conducted on 21.11.2022 by Mr. I.A.M Abdullah, Manager, IQTSM, Salem.

Name of the Student in Capital Letters *

S. VETRIVEL

Register Number *

927621BME067

Year *

II Year

Section *

A

Content Relevance to the Topic *

Disagree

1

2

3

4

5

Agree

Satisfied with the Curriculum Objectives *

Disagree

1

2

3

4

5

Agree

Overall Rating of the Session *

Poor

1

2

3

4

5

Excellent

Appreciations If any *

No

Suggestions for Improvement, If any *

No

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M.Kumarasamy College of Engineering - One Credit Course on FIRE AND SAFETY AWARENESS PROGRAM

Feedback - One Credit Course Conducted on 21.11.2022 by Mr. I.A.M Abdullah, Manager, IQTSM, Salem.

Name of the Student in Capital Letters *

P. SAKTHIVELAN

Register Number *

92762BME327

Year *

II Year

Section *

A

Content Relevance to the Topic *

Disagree

1

2

3

4

5

Agree



Satisfied with the Curriculum Objectives *

Disagree

1

2

3

4

5

Agree



Overall Rating of the Session *

Poor

1

2

3

4

5

Excellent

Appreciations If any *

They Very Well In Their Explanation And Doing Good Most Useful Activities In Fire & Safety

Suggestions for Improvement, If any *

Nothing

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**M.KUMARASAMY
COLLEGE OF ENGINEERING**

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AICTE Approval No. 732-53-004(NDGE) / 97 dt. 22.10.1999



Ref No: MKCE/MECH/P-03

Date: 22.11.2022

To

Mr. A. Jaffar Sadiq

Programe Co-ordinator

Institute of Quality Technical Safety Management

Salem, TamilNadu

Respected Sir,

Sub: Letter of Appreciation for handling "One Credit Course".-Reg

Warm Greetings from M.Kumarasamy College of Engineering, Karur !!

We extend our hearty appreciation for your informative session on the "Basic Industrial Safety, Fire Fighting & First Aid Awareness Programme" our II- Year Mechanical Students. It was our honor to have you as a course instructor for one credit course conducted on 21.11.2022 and 22.11.2022. We have received positive feedback from our students.

Thank you again for making this forum a great success. Your contributions are greatly appreciated! We are looking forward to many more programme like this with your valuable support.

Yours Sincerely

Dr. M. MOHAN PRASAD, M.E., M.B.A, Ph.D.,
Head of The Department
Department of Mechanical Engineering
M.Kumarasamy College of Engineering,
Karur - 639 113, Tamil Nadu.





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இந்தியாவின் No.1 மாலை நாளிதழ்
MAALAI MALAR

திருச்சி 8-12-2022 (வியாழக்கிழமை) 10 பக்கம் ₹ 5 ★
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கனம் எம்.குமாரசாமி பொறியியல் கல்லூரி, கரூர், சேலத்தில் உள்ள இன்ஸ்டிடியூட் ஆஃப் குவாலிட்டி டெக்னிக்கல் சேர்ப்பு மேலேற்றமென்ட் நிறுவனத்துடன் புரிந்துணர்வு ஒப்பந்தம் செய்துகொண்ட போது எடுத்த படம்.

கனம் எம்.குமாரசாமி பொறியியல் கல்லூரியில் புரிந்துணர்வு ஒப்பந்தம்

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