

CMS COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai-25)

CMS Nagar, Eranapuram Post, Namakkal Dt., Pin : 637 003. Tamilnadu, India.

Contact No: 98433 46065, 84899 10651.

Website: www.cmsgroupofinstitutions.in Email: cmscollegeofengg@gmail.com, principal602@gmail.com

ACADEMIC YEAR 2021-22



CMS COLLEGE OF ENGINEERING

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING VALUE ADDED PROGRAMS

2021-2022

S.NO	NAME OF VALUE ADDED PROGRAMS OFFERED	DURATION (HOURS)	NUMBER OF STUDENTS COMPLETING THE COURSE IN THE YEAR	TYPE OF VALUE ADDED PROGRAMS
1	DATA ANALYTICS	30	27	SELF-FRAMED PROGRAM
2	CYBER SECURITY	30	09	SELF-FRAMED PROGRAM




Dr. K. MAHADEVAN, B.E., M.E., Ph.D.
PRINCIPAL
CMS COLLEGE OF ENGINEERING,
NAMAKKAL-637 003



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Website: www.cmsgroupofinstitutions.in Email: cmscollegeofengg@gmail.com, principal602@gmail.com

DATE: 19.08.2021

FROM

S.Dhinesh
Head of the Department
Department of computer science and Engineering
CMS College of Engineering
Namakkal-637003

TO

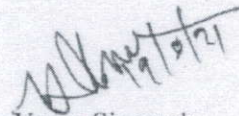
The Principal
CMS College of Engineering
Namakkal-637003

Respected sir,

Sub: Request for permission to organize value added program – Reg.,

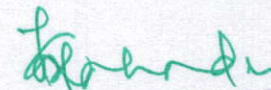
I wish to inform you that, we are planning to conduct value added program on
“DATA ANALYTICS” for B.E. computer science and engineering students from 28.08.21 to
06.11.21. In this regard, I kindly request you to avail permission to conduct the program
successfully.

Thanking you



Yours Sincerely

(S.DHINESH)



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S.Dhinesh
Head of the Department
Department of computer science and Engineering
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Namakkal-637003

TO

The Principal
CMS College of Engineering
Namakkal-637003

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Thanking you

Yours Sincerely

(S.DHINESH)



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DATE: 20.08.2021

CIRCULAR

This is to bring to your kind notice that our Department of Computer Science and Engineering of CMS College of Engineering, Namakkal has planned to conduct a value added program on **"DATA ANALYTICS"** from 28.08.21 to 06.11.21. The session will be organized by **"Ms.S.Gayathri, Coo, and Promethean Software Solutions"**. All the students of II Year are intimated to attend the program without fail in order to enrich their knowledge.

HEAD OF THE DEPARTMENT

Copy to

1. The Principal
2. HOD
3. Notice Board



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DATE: 20.08.2021

CIRCULAR

This is to bring to your kind notice that our Department of Computer Science and Engineering of CMS College of Engineering, Namakkal has planned to conduct a value added program on **"CYBER SECURITY"** from 28.08.21 to 06.11.21. The session will be organized by **Mrs.R.S.Aiswarya, Managing Director, Sia Informatix**. All the students of IV Year are intimated to attend the program without fail in order to enrich their knowledge.

HEAD OF THE DEPARTMENT

Copy to

1. The Principal
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VALUE ADDED PROGRAM- DATA ANALYTICS

ACADEMIC YEAR: 2021-2022

STUDENTS NAME LIST

S.NO	REG NO	NAME
1	620520104001	DHIVYA N
2	620520104003	SURYA PRAKASH T
3	620520104301	ABIMANI M
4	620520104303	AISHWARYA A
5	620520104304	ARCHANA K
6	620520104305	ASHOK V
7	620520104306	BASKAR V
8	620520104307	DHANALAKSHMI T
9	620520104308	ELAVARASI P
10	620520104309	GAYATHRI N
11	620520104310	JAYAPRIYA S
12	620520104311	JAYARAJ R
13	620520104312	KAVIN KUMAR S




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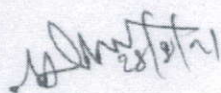
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14	620520104313	MAHALAKSHMI K
15	620520104314	MEENATCHI K
16	620520104315	MERCY P
17	620520104316	MONISHA N
18	620520104317	MUTHU LAKSHMI A
19	620520104318	MUTHUSELVI S
20	620520104319	PRAVEEN P
21	620520104320	PRIYA A
22	620520104321	SARANYA V
23	620520104322	SARMILA S
24	620520104323	SARUMATHI J
25	620520104324	SIVAKAMI R
26	620520104325	STALIN K
27	620520104326	SUBASHINI L
28	620520104327	SUVISTHA K
29	620520104328	VELLAISAMY P


PROGRAM CO-ORDINATOR


HOD




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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VALUE ADDED PROGRAM- CYBER SECURITY

ACADEMIC YEAR: 2021-2022

STUDENTS NAME LIST

S.NO	REG NO	NAME
1	620518104001	ANISHA.B
2	620518104002	ARTHI.M
3	620518104004	GOKUL.M
4	620518104006	MANJULA.K
5	620518104007	MANOVADHANA.M
6	620518104008	MUTHURAGAVAN.P
7	620518104009	PREETHI.R
8	620518104010	SUBBULAKSHMI.P
9	620518104011	SURYA.M
10	620518104012	VIGNESH.M

[Signature]
5/8/21

PROGRAM CO-ORDINATOR

[Signature]
HOD



[Signature]
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Data Analytics

Professional data analytics services for actionable insights and strategic decision-making.

DATE : 28-08-2021
TO
06-11-2021



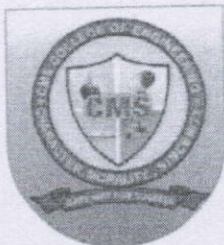
Venue: >>

CMSCE LECTURER HALL

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VALUE ADDED PROGRAM

DATA ANALYTICS

SYLLABUS

Course Objective: To impart knowledge on

- 1) Basics of various mining data techniques needed for processing
- 2) The utilization of various tools based on the application
- 3) Implement best practices for Hadoop development
- 4) Analytics using Hive, Pig, Hbase etc.

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

- 1) Work with various tools and algorithms for big data analytics
- 2) Apply appropriate machine learning techniques and tools to solve big data problems

Unit I INTRODUCTION TO BIG DATA ANALYTICS

Big data overview – practice in analytics – data scientist – big data analytics in industry verticals

Unit II DATA ANALYTICS LIFECYCLE

Discovery – Data preparation – model planning – model building – communicating results – operationalize

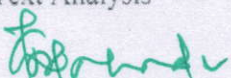
Unit III REVIEW OF DATA ANALYTICS METHODS USING R

Introduction to R – Analyze – Explore data – Statistics for model building and evaluation

Unit IV ADVANCED ANALYTICS: THEORY AND METHODS [CLUSTERING, CLASSIFICATION AND TEXT ANALYSIS]

K means clustering – Association rules – Linear regression – Logistic regression – Naive Bayesian Classifier – Decision Trees – Time Series Analysis – Text Analysis




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Unit V ADVANCED ANALYTICS: TECHNOLOGIES AND TOOLS [HADOOP]

Analytics for unstructured data – Mapreduce and Hadoop – Hadoop Ecosystem – database analytics
– data visualisation

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING VALUE ADDED PROGRAM CYBER SECURITY SYLLABUS

COURSE OBJECTIVES:

- ✓ To introduce the basic concepts of cyber security
- ✓ To acquire knowledge on cyber threats and attacks
- ✓ To become aware of significant security technologies and tool

UNIT - I INTRODUCTION TO INFORMATION SECURITY:

Components of Information System - Software Development Life Cycle - Security Software Development Life Cycle - Security Professionals and the Organization - Communicates Of Interest

UNIT - II NEED FOR SECURITY:

Introduction - Business Need First - Threats - Attacks - Secure Software Development.

UNIT - III SECURITY TECHNOLOGIES:

Introduction - Access Control - Firewall - Protecting Remote Connections - Intrusion Detection and Prevention System - Honeypots, Honeynets and Padded Cell - System Scanning and Analysis Tools - Biometric Access Control

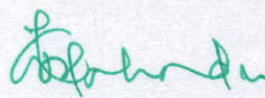
UNIT - IV CYRPTOGRAPHY:

Foundation of Cryptology - Cipher Methods - Cryptographic Algorithms - Cryptographic Tools - Protocols for Communication - Attacks on cryptosystems

UNIT - V RISK MANAGEMENT:

Introduction - An over view of Risk Management - Risk Identification - Risk Assessment - Risk Control Strategies - Selecting a Risk Control Strategy - Risk management Discussion Points - Recommended Risk Control Practices.




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UNIT – VI CURRENT CONTOURS (for Continuous Internal Assessment Only):

Contemporary Developments Related to the Course during the Semester Concerned.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING VALUE ADDED PROGRAM

2021-2022

S.NO	NAME VALUE ADDED PROGRAM OFFERED	DURATION (HOURS)	NUMBER OF STUDENTS COMPLETING THE COURSE IN THE YEAR	TYPE OF VALUE ADDED PROGRAM
1	INTERNET OF THINGS	30	10	SELF- FRAMED PROGRAM




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19.08.2021

FROM

K.Periyasamy

Head of the Department

Department of Electronics and Communication Engineering

CMS College of Engineering

Namakkal-637003

TO

The Principal

CMS College of Engineering

Namakkal-637003

Respected sir,

Sub: Request for Permission to organize value added program- Reg.,

I wish to inform you that, we are planning to conduct value added program on "INTERNET OF THINGS" for B.E. Electronics and Communication Engineering students from 28.08.21 to 06.11.21. In this regard, I kindly request you to avail permission to conduct the program successfully.

Thanking you

K. Periyasamy 19/8/21
Yours Sincerely

(K.PERIYASAMY)



Dr. K. Mahadevan
Dr. K. MAHADEVAN B.E., M.E., Ph.D.
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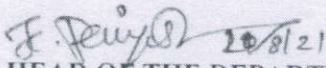
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DATE: 20.08.2021

CIRCULAR

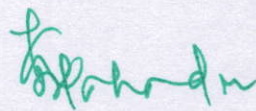
This is to bring to your kind notice that our Department of Electronics and Communication Engineering of CMS College of Engineering Namakkal has planned to conduct a value added program on "INTERNET OF THINGS" from 28.08.21 to 06.11.21. The session will be organized by Mr. Elangovan Subramaniam, Director, Sodexis India Private Limited. All the students of II Year are intimated to attend the program without fail in order to enrich their knowledge.


HEAD OF THE DEPARTMENT

Copy to

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION

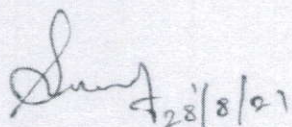
ENGINEERING

VALUE ADDED PROGRAM- INTERNET OF THINGS

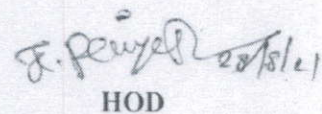
ACADEMIC YEAR: 2021-2022

STUDENTS NAME LIST

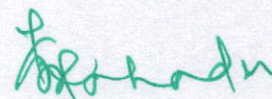
S.NO	REG NO	NAME
1	620520106302	BALAMURUGAN.R
2	620520106303	BELAGIRI.M
3	620520106304	BIRUNDHA.R
4	620520106305	JAYAKUMAR
5	620520106306	KALVIKAZHAGI
6	620520106307	MANIKANDAN.G
7	620520106308	MANIMARAN.C
8	620520106309	MANOJ D
9	620520106310	MOHAMED RIYAS.B
10	620520106312	NISHANTHLE
11	620520106313	RAGHINI.K
12	620520106315	SIVA.M
13	620520106317	TAMILSELVAM.M


28/8/21

PROGRAM CO-ORDINATOR


28/8/21
HOD





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INTERNET OF THINGS

The Internet of Things (IoT) is a network of interconnected physical devices embedded with sensors, software, and other technologies that enable them to collect and exchange data over the internet.



28.08.2021
DATE: TO
06.11.2021

VENUE:
CMSCE,
LECTURE HALL



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VALUE ADDED PROGRAM

INTERNET OF THINGS

SYLLABUS

Objective of the Course:

This Course focuses on hands-on IoT concepts such as sensing, actuation and communication. It covers the development of Internet of Things (IoT) prototypes—including devices for sensing, actuation, processing, and communication—to help you develop skills and experiences. The Internet of Things (IOT) is the next wave, world is going to witness. Today we live in an era of connected devices the future is of connected things.

Module 1

Introduction - Solution Patterns for the Internet of Things - Design Patterns and the IoT - Smart, Connected Products - Smart, Connected Operations - New and Innovative Experiences - The Edge of the IoT - Living on the Edge - Edge Architecture Examples.

Module 2

Arduino: Hardware and Software-Programming - Sensing Inputs Blinking LED-Alternately blinking LED-Fading LED -Light and sound-Push button and LED -RGB LED -Motion detector-Potentiometer.

Module 3

Outputs from sensing devices: Temperature measurement -Measurement of distance -Usage of an infrared remote -Control a servo -LCD Display -Relay shield -Stepper-Moisture sensor-Drop sensor -RFID Kit.

Module 4

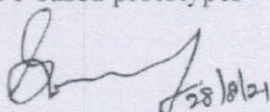
The Arduino Board - Get to know your tools - Spaceship interface - Love o Meter - Color Mixing lamp - Mood cup - Light Theremin - Keyboard instrument.

Module 5

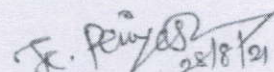
Implementation of IoT using Raspberry Pi & Python Programming: - LCD Interfacing - Motor driver Interfacing - Camera interface.

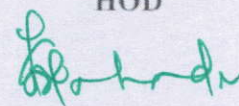
Learning Outcome:

After the completion of the course, the students will be able design some IOT based prototypes


PROGRAM CO-ORDINATOR




HOD


Dr.K.MAHADEVAN B.E.,M.E.,Ph.D.
PRINCIPAL
CMS COLLEGE OF ENGINEERING,
NAMAKKAL-637 003



CMS COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai-25)

CMS Nagar, Eranapuram Post, Namakkal Dt., Pin : 637 003. Tamilnadu, India.

Contact No: 98433 46065, 84899 10651.

Website: www.cmsgroupofinstitutions.in Email: cmscollegeofengg@gmail.com, principal602@gmail.com

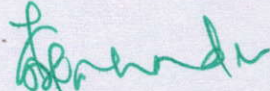
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

VALUE ADDED PROGRAMS

2021-2022

S.NO	NAME OF VALUE ADDED PROGRAMS OFFERED	DURATION (HOURS)	NUMBER OF STUDENTS COMPLETING THE COURSE IN THE YEAR	TYPE OF VALUE ADDED PROGRAMS
1	MACHINE LEARNING	30	4	SELF-FRAMED PROGRAM
2	SOLAR POWER AND DESIGN	30	22	SELF-FRAMED PROGRAM




Dr. K. MAHADEVAN, B.E., M.E., Ph.D.
PRINCIPAL
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Contact No: 98433 46065, 84899 10651.

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19.08.2021

FROM

G.Suresh

Head of the Department

Department of Electrical and Electronics Engineering

CMS College of Engineering

Namakkal-637003

TO

The Principal

CMS College of Engineering

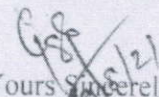
Namakkal-637003

Respected sir,

Sub: Request for Permission to organize value added program – Reg.,


I wish to inform you that, we are planning to conduct value added program on
“MACHINE LEARNING” for B.E. Electrical and Electronics Engineering students from 28.08.21 to
06.11.21. In this regard, I kindly request you to avail permission to conduct the program successfully.

Thanking you


Yours Sincerely

(G.Suresh)




Dr. K. MAHADEVAN, B.E., M.E., Ph.D.
PRINCIPAL
CMS COLLEGE OF ENGINEERING,
NAMAKKAL-637 003



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19.08.2021

FROM

G.Suresh

Head of the Department

Department of Electrical and Electronics Engineering

CMS College of Engineering

Namakkal-637003

TO

The Principal

CMS College of Engineering

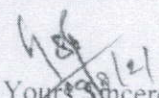
Namakkal-637003

Respected sir,

Sub: Request for Permission to organize value added program – Reg.,


I wish to inform you that, we are planning to conduct value added program on "SOLAR POWER AND DESIGN" for B.E. Electrical and Electronics Engineering students from 28.08.21- 06.11.21. In this regard, I kindly request you to avail permission to conduct the program successfully.

Thanking you


Yours Sincerely

(G.SURESH)




Dr. K. MAHADEVAN, B.E., M.E., Ph.D.
PRINCIPAL
CMS COLLEGE OF ENGINEERING,
NAMAKKAL-637 003



CMS COLLEGE OF ENGINEERING

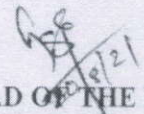
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Contact No: 98433 46065, 84899 10651.

Website: www.cmsgroupofinstitutions.in Email: cmscollegeofengg@gmail.com, principal602@gmail.com

DATE: 20.08.2021

CIRCULAR


This is to bring to your kind notice that our Department of Electrical and Electronics Engineering of CMS College of Engineering Namakkal has planned to conduct a value added program on "MACHINE LEARNING" from 28.08.21 to 06.11.21. The session will be organized by Mrs.R.Premalatha ,CEO, Muhaba Research Lab. All the students of IV Year are intimated to attend the program without fail in order to enrich their knowledge.


HEAD OF THE DEPARTMENT

Copy to

1. The Principal
2. HOD
3. Notice Board




Dr.K.MAHADEVAN,B.E.,M.E.,Ph.D.
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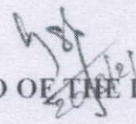
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DATE: 20.08.2021

CIRCULAR

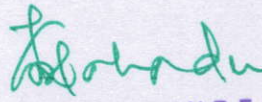
This is to bring to your kind notice that our Department of Electrical and Electronics Engineering of CMS College of Engineering Namakkal has planned to conduct a value added program on "SOLAR POWER AND DESIGN" from 28.08.21 to 06.11.21. The session will be organized by Dr.B.Meenakshi Sundaram ,Dean, Sethu Institute of Technology . All the students of II Year are intimated to attend the program without fail in order to enrich their knowledge.


HEAD OF THE DEPARTMENT

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1. The Principal
2. HOD
3. Notice Board




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CMS COLLEGE OF ENGINEERING,
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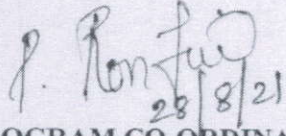
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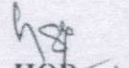
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
VALUE ADDED PROGRAM- MACHINE LEARNING
ACADEMIC YEAR: 2021-2022
STUDENTS NAME LIST

S.NO	REG NO	NAME
1	620518105001	KARTHI N
2	620518105003	RAJAMANICKAM V
3	620518105005	SRIDHAR M
4	620518105007	SURESH G


28/8/21
PROGRAM CO-ORDINATOR


HOD
28/8/21




Dr. K. MAHADEVAN, B.E., M.E., Ph.D.
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

VALUE ADDED PROGRAM- SOLAR POWER AND DESIGN

ACADEMIC YEAR: 2021-2022

STUDENTS NAME LIST

S.NO	REG NO	NAME
1	620520105301	A.ABINAYA
2	620520105302	G.ANANTHBABU
3	620520105303	G.ARIPRIYA
4	620520105304	S.ARUNKUMAR
5	620520105305	K.BABY
6	620520105306	S.BASKAR
7	620520105307	M.BOOMIKA
8	620520105308	D.DAMODHARAN
9	620520105309	M.DHINESH
10	620520105310	R.DURAI
11	620520105311	S.GIRIMURUGAN
12	620520105312	R.GOWTHAM
13	620520105313	M.JALEEL AHAMED



Dr.K.MAHADEVAN.B.E.,M.E.,Ph.D.
PRINCIPAL

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14	620520105314	M.JEGADEESH
15	620520105315	S.JOSH MAHIBAL
16	620520105316	V.JOTHIKA
17	620520105317	R.KISHORE
18	620520105318	R.MAHENDERAN
19	620520105319	M.MANIKANDAN
20	620520105320	R.MANIVASAN
21	620520105321	M.MUNIYAMMAL
22	620520105322	S.MUTHAMILSELVI
23	620520105323	M.MUTHUKARPPAN
24	620520105324	S.T.NAVEEN
25	620520105325	S.RAMESHKUMAR
26	620520105326	R.SANJAI
27	620520105327	R.SANDHIYA
28	620520105328	K.SANTHOSH
29	620520105329	T.SATHISHKUMAR
30	620520105330	J.SRIDHAR
31	620520105331	P.SRINIVAS
32	620520105332	S.VIGNESHWARAN
33	620520105333	S.VINOTHKUMAR

P. Ranganathan
28/8/21
PROGRAM CO-ORDINATOR



Dr. K. Mahadevan
Dr. K. MAHADEVAN, B.E., M.E., Ph.D.
PRINCIPAL
CMS COLLEGE OF ENGINEERING,
NAMAKKAL-637 003

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28/8/21
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Learn to transfer human
Intelligence into Machines
and Computers so that they
can do what humans can do

MACHINE LEARNING

• Date: 20.08.2021 to 06.11.2021

VENUE:

**CMSCE,
LECTURE HALL**




Dr. K. MAHADEVAN, B.E., M.E., Ph.D.
PRINCIPAL
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Organized by

ELECTRICAL AND ELECTRONIC ENGINEERING

VALUE ADDED COURSE
ON

SOLAR POWER



Dr. K. MAHADEVAN, B.E., M.E., Ph.D
PRINCIPAL

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CMS COLLEGE OF ENGINEERING

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

VALUE ADDED PROGRAM

MACHINE LEARNING

SYLLABUS

Course Objective:

To impart knowledge on

- ✓ Learn and realize the concepts of machine learning techniques
- ✓ Understand the concept of clustering and classification
- ✓ Gain knowledge on deep neural networks like convolutional networks and sequence modeling networks
- ✓ Learn various deep generative models

Unit I ML CONCEPTS

Introduction to Machine Learning – ML terminologies – Linear Regression: Training and Loss – Loss Reduction techniques – Working with Tensorflow Playground.

Unit II CLASSIFICATION AND CLUSTERING

Logistic regression – Generalization – Regularization - Classification – Clustering: Centroid-based Clustering - Density-based Clustering - Distribution-based Clustering - Hierarchical Clustering – Working with Tensorflow Playground and Google's colab environment.


Unit III DEEP NETWORKS

Introduction to Neural networks – Terminology – Working with tensors – Pandas, numpy, matplotlib library – Feed forward networks – Convolutional Neural network – Recurrent neural networks and its variants – Long-Short Term memory.

Unit IV WORKING WITH CONVOLUTIONAL NETWORKS AND SEQUENCE MODELING

Digit Classification using MNIST - Image Classification with Fashion MNIST - Training an Image Classifier via Transfer Learning - Building a Text Classifier with TF-Hub – Image captioning. Working with Google's Colab environment.




Dr. K. MAHADEVAN, B.E., M.E., Ph.D.
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Unit V DEEP GENERATIVE MODELS

Restricted Boltzmann Machines – Deep Belief networks – Deep Boltzmann machine – Convolutional Boltzmann machine – Working with Tensorflow Playground.

Course Outcome:

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

- ✓ Design a framework for machine learning problem and implement using the machine learning concepts.
- ✓ Develop solution for real world problems using clustering and classification.
- ✓ Develop suitable solution using appropriate deep neural networks for real time application
- ✓ Use deep generative models for problem solving

P. Ranjith
28/8/21

PROGRAM CO-ORDINATOR

8/8/21
HOD



Dr.K.MAHADEVAN, B.E., M.E., Ph.D.
PRINCIPAL
CMS COLLEGE OF ENGINEERING,
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

VALUE ADDED PROGRAM

SOLAR POWER AND DESIGN

SYLLABUS

Module- I

Use of Tools and tackles and safe application practices, a, voltmeter, amp meter, MultiMate, tong tester, AC/DC side testing, Temperature Sensors, monitoring of incoming and outgoing power at junction box & inverter level.

Module- II

Inverter: Introduction – evolution of the Inverter- inverter technical specifications and selection – types of Inverter – feature of Inverter, importance of Inverter, compression of inverters, solar inverters.

Module- III

Battery: Typical values of battery voltage, module current & voltage. Acid & their properties, current flow in batteries & impact of shorting of terminals. Charging process & precautions to be taken while charging a battery, Different types of tools & their use

Module- IV

Need for personal safety & safety of others. Dangers associated with working at heights. Methods of safety practices while using different hand tools. Impact of incorrect lifting of objects, system components (especially battery) while installing at heights & while working. - Personal protective equipments & their usage. - Knowledge of the causes of accident & its remedial actions.

Module- V

Installation and Trouble shooting of Standalone Solar PV System, Maintenance of Solar PV System, Safety in installation of Solar PV System, Maintenance of Solar PV System.

P. Renu
PROGRAM CO-ORDINATOR

HOD
28/8/21



Dr. K. Mahadevan
Dr. K. MAHADEVAN, B.E., M.E., Ph.D.
PRINCIPAL
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DEPARTMENT OF MECHANICAL ENGINEERING

VALUE ADDED PROGRAM

2021-2022

S.NO	NAME OF VALUE ADDED PROGRAM OFFERED	DURATION (HOURS)	NUMBER OF STUDENTS COMPLETING THE COURSE IN THE YEAR	TYPE OF VALUE ADDED PROGRAM
1	SOIL WORK	30	8	SELF-FRAMED PROGRAM



K. Mahadevan
Dr. K. MAHADEVAN, B.E., M.E., Ph.D.
PRINCIPAL
CMS COLLEGE OF ENGINEERING,
NAMAKKAL-637 003



CMS COLLEGE OF ENGINEERING

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Contact No: 98433 46065, 84899 10651.

Website: www.cmsgroupofinstitutions.in Email: cmscollegeofengg@gmail.com, principal602@gmail.com

19.08.2021

FROM

G.Gopal
Head of the Department
Department of Mechanical Engineering
CMS College of Engineering
Namakkal-637003

TO

The Principal
CMS College of Engineering
Namakkal-637003

Respected sir,

Sub: Request for Permission to organize value added program – Reg.,

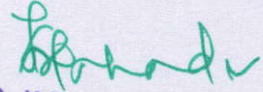
I wish to inform you that, we are planning to conduct value added program “SOIL WORK” for B.E. Mechanical Engineering students from 28.08.21 to 06.11.21. In this regard, I kindly request you to avail permission to conduct the program successfully.

Thanking you

Yours Sincerely

(G.Gopal)




Dr. K. MAHADEVAN, B.E., M.E., Ph.D.
PRINCIPAL
CMS COLLEGE OF ENGINEERING,
NAMAKKAL-637 003



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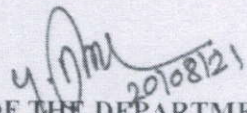
Contact No: 98433 46065, 84899 10651.

Website: www.cmsgroupofinstitutions.in Email: cmscollegeofengg@gmail.com, principal602@gmail.com

DATE: 20.08.2021

CIRCULAR

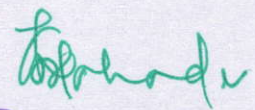
This is to bring to your kind notice that our Department of Mechanical Engineering of CMS College of Engineering Namakkal has planned to conduct a value added program on "SOIL WORK" from 28.08.21 to 06.11.21. The session will be organized by "Dr.P.Selvaraj Assistant Professor, Department of Mechanical Engineering, Paavai College of Engineering". All the students of IV Year are intimated to attend the program without fail in order to enrich their knowledge.


HEAD OF THE DEPARTMENT

Copy to

1. The Principal
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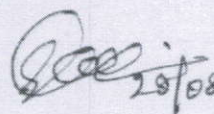
DEPARTMENT OF MECHANICAL ENGINEERING

VALUE ADDED PROGRAM- SOIL WORK

ACADEMIC YEAR: 2021-2022

STUDENTS NAME LIST


S.NO	REG NO	NAME
1	620518114001	ANBUMARAN.G
2	620518114002	ARAVINTH.K
3	620518114003	JANAVIGNESH.S
4	620518114005	KATHIK.Y
5	620518114008	MUSARAF.N
6	620518114010	RAMAKRISHNAN.N
7	620518114012	SANTHOSH.B
8	620518114017	VALLARASU.R


28/08/21

PROGRAM CO-ORDINATOR


HOD 28/08/21




Dr. K. MAHADEVAN, B.E., M.E., Ph.D.
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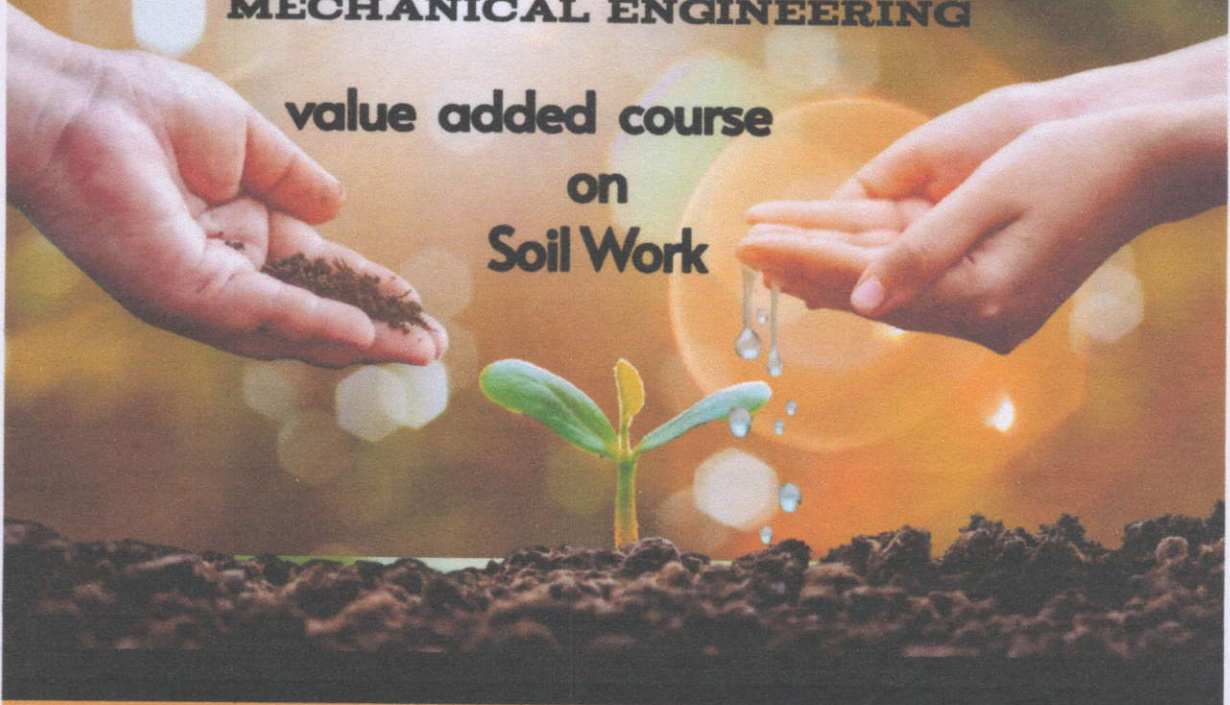
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ANNA UNIVERSITY, CHENNAI-25

Organized by

MECHANICAL ENGINEERING

value added course
on
Soil Work



Dated on : 28.08.21 - 06.11.21

venue : CMSCE, Lecturer Hall



Dr. K. MAHADEVAN, B.E., M.E., Ph.D.
PRINCIPAL
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Contact No: 98433 46065, 84899 10651.

Website: www.cmsgroupofinstitutions.in Email: cmscollegeofengg@gmail.com, principal602@gmail.com

DEPARTMENT OF MECHANICAL ENGINEERING

VALUE ADDED PROGRAM- SOIL WORK

SYLLABUS

UNIT-1 BUILDING MATERIALS AND CONSTRUCTION

Stone, Brick, Tiles, Cement, Lime and filler materials-Plane cement Concrete, Reinforced cement concrete-Timber-Foundation, Masonry, Roofing, Flooring-Building finishes and services-Temporary structural treatment for building construction

UNIT-2 HYDRAULICS AND IRRIGATION

Terms used in Irrigation-Storage and diversion head works-Reservoir, dam, canals, Cross drainage work-Properties of fluid-Measurement of pressure-Type of Hydraulic energy

UNIT-3 APPLIED MECHANICS

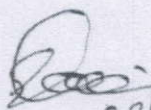
Simple machines:-Load and effort, Mechanical advantage, Velocity ratio, efficiency-Work power and energy-Simple stress and strain-Friction, Shear force and bending moment-Speed and velocity

UNIT-4 AUTOCAD

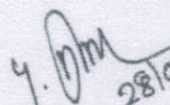
Introduction to AutoCAD-Basic commands-Drawing toolbar and modifying toolbar-Plotting and printing

UNIT-5 SURVEYING

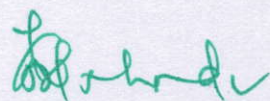
Conventional surveying-Introduction and terms used in chain, compass, plane table and leveling survey-Principle of leveling, Type of leveling, Reduction of levels-Contouring, Theodolite survey-Modern and advanced surveying instruments


28/08/21.

PROGRAM CO-ORDINATOR


28/08/21
HOD




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