

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 2020-21



CMS COLLEGE OF ENGINEERING

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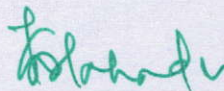
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING VALUE ADDED PROGRAMS

2020-2021

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	BLOCK CHAIN	30	31	SELF-FRAMED PROGRAM
2	INTERNET OF THINGS	30	07	SELF-FRAMED PROGRAM




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



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DATE: 20.08.2020

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 “BLOCK CHAIN” for B.E. Computer Science and Engineering students from 29.08.2020 to 10.10.2020. In this regard, I kindly request you to avail permission to conduct the program successfully.

Thanking you

Yours Sincerely

(S.DHINESH)



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

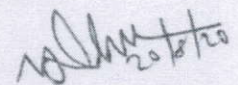
The Principal
CMS College of Engineering
Namakkal-637003

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. Computer Science and Engineering students from 29.08.2020 to 10.10.2020. In this regard, I kindly request you to avail permission to conduct the program successfully.

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Yours Sincerely

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DATE: 21.08.2020

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 **"BLOCK CHAIN"** from 29.08.2020 to 10.10.2020. The session will be organized by **Mr.K.THENAMUDHAN, DIRECTOR, ROADMAP IT SOLUTIONS PRIVATE LIMITED.** 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



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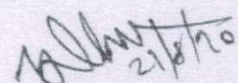
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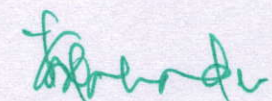
This is to bring to your kind notice that our Department of Computer Science and Engineering of CMS College of Engineering Namakkal has planned to conduct a value added program on **INTERNET OF THINGS** from 29.08.2020 to 10.10.2020. The session will be organized by **Mr. SURESH SANKAR, MANAGING DIRECTOR, STAR AUTOMATIONS PRIVATE LIMITED**. All the students of III Year are intimated to attend the program without fail in order to enrich their knowledge.


HEAD OF THE DEPARTMENT

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VALUE ADDED PROGRAM-BLOCK CHAIN

ACADEMIC YEAR: 2020-2021

STUDENTS NAME LIST

S.NO	REG NO	NAME
1	620517104001	AARTHI P
2	620517104003	AKASH K
3	620517104006	AMUTHA M
4	620517104008	DHARSHINI S
5	620517104009	DINESH A
6	620517104010	EVANGELIN EMIMA GRACE S
7	620517104014	ISWARYA P
8	620517104016	KARTHICKKUMAR G
9	620517104017	KARTHIKA K
10	620517104018	KASTHURI A
11	620517104020	KAVIYARASU K
12	620517104021	KIRUBALAN A
13	620517104022	LAKSHMI A
14	620517104023	MANIVEL M
15	620517104024	MANORANJITHAM M
16	620517104025	MATHESH R
17	620517104029	NANDHINI P
18	620517104031	PAVITHRA E



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19	620517104033	POOVARASAN L
20	620517104034	PRATHIBA R
21	620517104035	PRIYADHARSHINI E
22	620517104037	RAMYA M
23	620517104038	RESHMA R
24	620517104040	SAHANAVARSHNI C S
25	620517104042	SANGAVI S
26	620517104044	SANJAY S
27	620517104049	SUSANTHIKA B
28	620517104050	VEERAKUMAR N
29	620517104051	VIGNESH C
30	620517104701	PRIYA A
31	620517104702	THAMARAI SELVI M
32	620517104703	DHARSHINI C
33	620517104704	ANISHA V

PROGRAM CO-ORDINATOR



Dr.K.MAHADEVAN, B.E., M.E., Ph.D.
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VALUE ADDED PROGRAM-INTERNET OF THINGS

ACADEMIC YEAR: 2020-2021

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

PROGRAM CO-ORDINATOR

HOD



Dr. K. MAHADEVAN, B.E., M.E., Ph.D.
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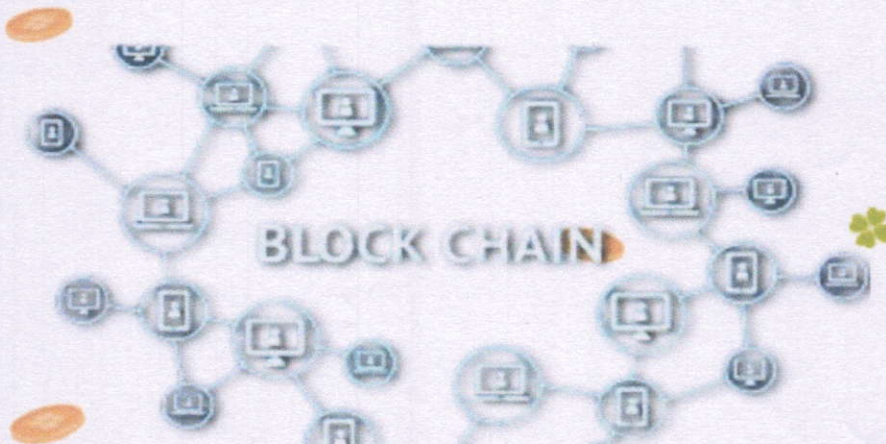
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COMPUTER SCIENCE AND ENGINEERING



AUGUST 29, 2020
FROM 09:00 PM TO 05:00 PM

venue:

CMS CAMPUS!



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CMS COLLEGE OF ENGINEERING

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ORGANISED

BY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VALUE ADDED COURSE ON INTERNET OF THINGS

DATE: 29.08.2020 to 10.10.2020

VENUE: CMSCE , LECTURE HALL



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

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING VALUE ADDED COURSE BLOCK CHAIN SYLLABUS

Learning Objectives

The Objective of this course is

- ✓ To assess block chain applications in a structured manner.
- ✓ To impart knowledge in block chain techniques and able to present the concepts clearly and structured.
- ✓ To get familiarity with future currencies and to create own crypto token.

Unit-I : Basic Concepts

Introduction - Decentralized society - Disturbed Database, Byzantine General problem - Fault tolerance, Hadoop Distributed File System, Distributed Hash Table, ASIC resistance, Turing Complete - P2P network - Private key - Public key - Cryptography - Hash Function - Digital Signature - ECDSA - Memory Hard Algorithm - Zero Knowledge Proof.

Unit-II : Block Chain

12 Introduction - Advantage over conventional distributed database - Network and protocols - Block chain network - Mining - Mechanism - Life Cycle of Block chain - Distributed consensus - Merkle Patricia Tree - Gas Limit - Transactions and Fee - Anonymity - Reward - Chain policy- Life of Block chain applications -Soft and Hard Fork - Private and Public blockchain.

Unit-III : Distributed Consensus

Nakamoto consensus - Proof of work - Proof of Stake - Proof of Burn - Difficulty level - Sybil Attack - Energy Utilization and alternate - Fabric model - SDKs - Components of Fabric Model - Architecture of Hyperledger fabric

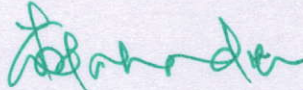
Unit-IV: Cryptocurrency

Distributed ledger - Bitcoin protocols - Mining strategy and rewards - Ethereum - construction - Truffle - DAO - dApps - Smart Contract - Boot strapping - GHOST Vulnerability - Attacks - Sidechain - Namecoin.

Unit-V : Cryptocurrency Regulations

Stakeholders - Roots and Bitcoin - Legal Aspects - Crypto currency exchange - Black market and Global economy. Applications : IoT - Medical Record Management system - Domain Name Service and future of Blockchain - Business applications and assessing blockchain projects.




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Course Outcomes

Upon completion of this course the students will be able to

- CO1. Understand the various technologies and its business use.
- CO2. Analyse the block chain applications in a structure manner.
- CO3. Explain the modern concepts of block chain technology systematically.
- CO4. Handle the cryptocurrency.
- CO5. Understand the modern currencies and its market usage.

PROGRAM CO-ORDINATOR

HOD



Dr. K. MAHADEVAN, B.E., M.E., Ph.D.
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DEPARTMENT OF COMPUTER SCIENCE AND 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

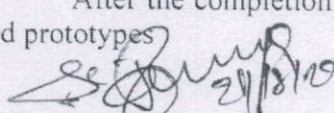
The Arduino Board - Get to know your tools - Spaceship interface - Love o Meter - Color Mixing lamp - Mood cup - Light Theremin - Keyboard instrument.

Module 5

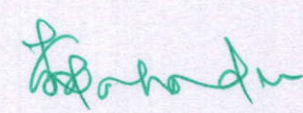
Implementation of IoT using Raspberry Pi & Python Programming: - LCD Interfacing - Motor driver Interfacing - Camera interface.

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,
NAMAKKA





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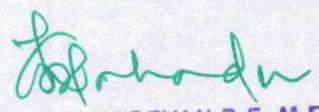
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VALUE ADDED PROGRAM

2020-2021

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	FUNDAMENTALS OF MATLAB	30	09	SELF- FRAMED PROGRAM




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DATE: 20.08.2020

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
“FUNDAMENTALS OF MATLAB” for B.E. Electronics and Communication Engineering students
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program successfully.

Thanking you

K. Periyasamy 20/8/20
Yours Sincerely
(K.PERIYASAMY)



Dr. K. Mahadevan
Dr.K.MAHADEVAN, B.E., M.E., Ph.D.
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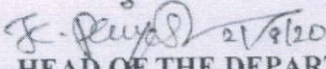
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CIRCULAR

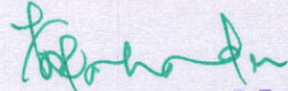
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HEAD OF THE DEPARTMENT

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VALUE ADDED PROGRAM- FUNDAMENTALS OF MATLAB

ACADEMIC YEAR:2020-2021

STUDENTS NAME LIST

S.NO	REG NO	NAME
1	620517106001	ABINAYA S
2	620517106002	ABINAYA.T
3	620517106003	AJITH KUMAR.P
4	620517106010	GIRIJA.R
5	620517106013	KIRUTHIGA DEVI A
6	620517106014	MALLESWARI.K
7	620517106016	NANTHINI.R
8	620517106020	SARANYA.R
9	620517106022	SHARMILADEVI R
10	620517106023	SUJITHRA.P
11	620517106701	MALATHI K

PROGRAM CO-ORDINATOR

HOD



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**ORGANISED
BY**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING**

**VALUE ADDED COURSE
ON
FUNDAMENTALS OF MATLAB**

DATE: 29.08.2020 to 10.10.2020

VENUE: CMSCE, LECTURE HALL




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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VALUE ADDED PROGRAM

FUNDAMENTALS OF MATLAB

SYLLABUS

Module 1

The MATLAB environment and getting touch/help, MATLAB search path, advantages and disadvantages of MATLAB, applications.

Module 2

MATLAB basics: variables and arrays, initializing variables in MATLAB, multidimensional arrays, sub arrays, end function, disp function, fprintf function, load and save commands, scalar operations, array and matrix operations, built-in MATLAB functions, Introduction to plotting, 2-D plots and 3-D plots.

Module 3

Program design techniques: logical data type, relational operators, logic operators, logical functions. Branching statements: if...else, switch, Loops: while, for, break, continue, nesting loops, complex data, string functions, user defined functions, case study

PROGRAM CO-ORDINATOR

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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

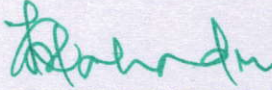
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

VALUE ADDED PROGRAMS

2020-2021

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	ELECTRICAL CADD	30	2	SELF-FRAMED PROGRAM
2	CARRER DEVELOPMENT PROGRAM	30	3	SELF-FRAMED PROGRAM




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: 20.08.2020

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.,

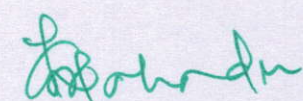
I wish to inform you that, we are planning to conduct value added program on “ELECTRICAL CADD” for B.E. Electrical and Electronics Engineering students from 29.08.2020 to 10.10.2020. In this regard, I kindly request you to avail permission to conduct the program successfully.

Thanking you


Yours Sincerely

(G.Suresh)




Dr. K. MAHADEVAN, B.E., M.E., Ph.D.
PRINCIPAL
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NAMAKKAL-637 003



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DATE: 20.08.2020

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 “CARRER DEVELOPMENT PROGRAM” for B.E. Electrical and Electronics Engineering students from 29.08.2020 to 10.10.2020. 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.
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NAMAKKAL-637003



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Contact No: 98433 46065, 84899 10651.

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

DATE: 21.08.2020

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 **"ELECTRICAL CADD"** from 29.08.2020 to 10.10.2020. The session will be organized by **Mr.S.VIJAYARAGAVAN, DIRECTOR, SV ENERGY SOLUTION**. All the students of III Year are intimated to attend the program without fail in order to enrich their knowledge.

hsg
~~HEAD OF THE~~ DEPARTMENT

Copy to

1. The Principal
2. HOD
3. Notice Board



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



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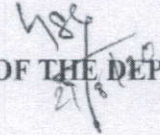
Contact No: 98433 46065, 84899 10651.

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

DATE: 21.08.2020

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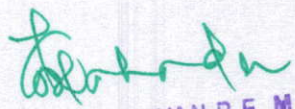
This is to bring to your kind notice that our Department of Electrical and Electronics Engineering of CMS College of Engineering, Namakkal has planned to conduct a value added program on **"CARRER DEVELOPMENT PROGRAM"** from 29.08.2020 to 10.10.2020. The session will be organized by **Ms.HEERA RAVI, MD, HR AKADEMI**. All the students of IV 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
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

VALUE ADDED PROGRAM- ELECTRICAL CADD

ACADEMIC YEAR: 2020-2021

STUDENTS NAME LIST

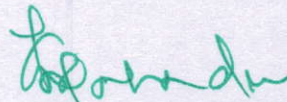
S.NO	REG NO	NAME
1	620518105001	KARTHI N
2	620518105003	RAJAMANICKAM V
3	620518105005	SRIDHAR M
4	620518105007	SURESH G

S. Viven 29/8/20

PROGRAM CO-ORDINATOR

HOD 29/8/20




Dr. K. MAHADEVAN, B.E., M.E., Ph.D.
PRINCIPAL
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
VALUE ADDED PROGRAM- CARRER DEVELOPMENT PROGRAM
ACADEMIC YEAR: 2020-2021
STUDENTS NAME LIST

S.NO	REG NO	NAME
1	620517105003	ARJUN S
2	620517105004	DHINATHAYALAN
3	620517105008	MANIKANDAN M
4	620517105013	SUBASH R

S. V. V. V. 29/8/20

PROGRAM CO-ORDINATOR

HOD
29/8/20




Dr. K. MAHADEVAN, B.E., M.E., Ph.D.
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CMS COLLEGE OF ENGINEERING NAMAKKAL 637003

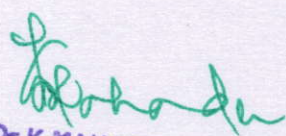
ORGANISED
BY
DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING

VALUE ADDED COURSE
ON
ELECTRICAL CADD

DATE: 29.08.2020 to 10.10.2020

VENUE: CMSCE , LECTURE HALL




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

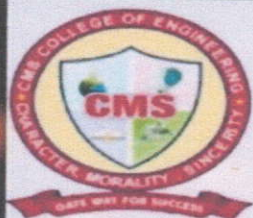


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CMS COLLEGE OF ENGINEERING

NAMAKKAL-637003

CARRIER DEVELOPEMENT PROGRAMME



ORGANISED BY:

**ELECTRICAL AND
ELECTRONICS
ENGINEERING**

VENUE:
CMSCE LECTURER HALL

DATE:
29.8.2020-10.10.2020



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

VALUE ADDED PROGRAM

ELECTRICAL CADD

SYLLABUS

Course objective:

1. Demonstrate basic concepts of the AutoCAD software.
2. Apply basic concepts to develop construction (drawing) techniques.
3. Ability to manipulate drawings through editing and plotting techniques.
4. Understand geometric construction
5. Produce template drawings
6. Produce 2D Orthographic Projections
7. Understand and demonstrate dimensioning concepts and techniques
8. Understand Section and Auxiliary Views

Module 1:

Introduction to engineering drawing, Graphic, Exploring AutoCAD User Interface, Exploring

Module 2:

Navigating 2D Drawings, *Drawing Lines and Rectangles, *Cancelling, erasing, Undoing, Drawing Circles, Arcs, Polygons, Filletting and Chamfering Lines Grid and Snap, Ortho and Polar Snapping, Polar Snap, Running Object Snaps, Object Snap Tracking.

Module 3

Editing feature Move and Copy • Rotate and Scale • Arrays, Grip Editing • Trim and Extend • Lengthen and Stretch • Offset and Mirror

Module 4

Dimensioning and Annotation • Styling Dimensions • Adding Dimensions • Editing Dimensions • Creating Annotative Styles and Objects • Creating Layouts • Adjust Floating Viewports • Overriding layer Properties in Layout Viewports • Drawing on Layouts

Module 5

Introduction of 3D in Auto cad Creating and editing basic feature of 3D in Auto cad

S. venkatesh 27/8/20

PROGRAM CO-ORDINATOR

hgs
HOD 20



Dr. K. Mahadevan

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

VALUE ADDED PROGRAM

CARRER DEVELOPMENT PROGRAM

SYLLABUS

Course Objectives:

- Identify and reflect on their career and lifestyle preferences
- Learn what they can offer the world of work and what it can offer them
- Think broadly about career options and patterns of work
- Actively pursue career ideas
- Learn about actions they can take to start a career and to enter the job market after obtaining their master degree

Course Outcomes:

- Students should be Identify and reflect on their career and lifestyle preferences
- Students Learn what they can offer the world of work and what it can offer them
- Students understand Think broadly about career options and patterns of work
- Students Learn about actions they can take to start a career and to enter the job market after obtaining their master degree

MODULE I: GUIDANCE AND COUNSELLING

Guidance: Definition, Objectives, and principles; Areas of Guidance: Education, vocation, Avocation, social, Health, moral and personal. Counselling: Definition, Objectives, goals, scope, need, characteristics, Principles and functions; Difference between guidance and counselling.

MODULE II: STAGES OF COUNSELLING

The Six stages of Counseling Process Relationship building (Micro skills in counseling), Assessment & diagnosis, Formulation of counseling goals, Intervention & Problem solving, Termination & Follow up Overview, Ethics and Confidentiality. Principles of guidance Self development, Universal, individual differences, continuous process and other principles

MODULE III : SKILLS IN COUNSELING

Skills in Counseling: Macro skills: Communication, Training, Human Assessment/ Diagnostic, Meta-Communication, Paralinguistic, Non-Verbal Communication and Rapport, Questioning, Observational Skills, Basic Listening Sequence, Interpretation and Reframing



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MODULE IV: HISTORY TAKING & MENTAL STATE EXAMINATION

History taking, Identifying data, Chief complaint, History of present illness, past illness, Family history, Personal history – prenatal & perinatal, early childhood (birth through age), Middle childhood, Late childhood, Adulthood, Sexual history, Fantasies & dreams, Values

MODULE V: INTERVIEWING OF PATIENTS

Insight & Symptom-oriented Interviewing, The Four Components, The Multiphasic Approach, Disorder Specific Interviewing, and Common Interview Techniques

S. Varadachari 29/8/20

PROGRAM CO-ORDINATOR

HOD
29/8/20



Dr. K. Mahadevan

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

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DEPARTMENT OF MECHANICAL ENGINEERING

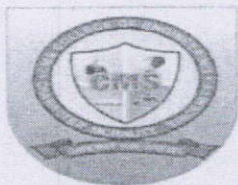
VALUE ADDED PROGRAM

2020-2021

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	NDT	30	23	SELF- FRAMED PROGRAM



Dr.K.MAHADEVAN,B.E.,M.E.,Ph.D.
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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: 20.08.2020

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 on “NDT” for B.E. Mechanical Engineering students from 29.08.2020 to 10.10.2020. In this regard, I kindly request you to avail permission to conduct the program successfully

Thanking you

G.Gopal
20/08/20
Yours Sincerely

(G.Gopal)



Dr. K. Mahadevan
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: 21.08.2020

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 “NDT PROGRAM” from 29.08.2020 to 10.10.2020. The session will be organized by **Dr.M.Pallikonda Rajasekaran, Dean, Kalasalingam Academy of Research and Education**. All the students of III & IV year are intimated to attend the program without fail in order to enrich their knowledge.

g.ohu 21/08/20
HEAD OF THE DEPARTMENT

Copy to

1. The Principal
2. HOD
3. Notice Board



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

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DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR: 2020-2021

VALUE ADDED COURSE- NDT

STUDENTS NAME LIST

S.NO	REG NO	NAME
1	620517114001	AJITH KUMAR M
2	620517114003	ALLWIN V
3	620517114004	ARIVUMANI V
4	620517114006	BALAMURUGAN B
5	620517114007	BHARATHI P
6	620517114008	CHANDRU T
7	620517114012	ELAMBARUTHI B
8	620517114013	GEORGEFERNANDEZ J
9	620517114014	GOKUL BALAN M
10	620517114015	HARI HARAN S
11	620517114016	KARUNAKARAN.S
12	620517114018	KUMARAVEL.G
13	620517114021	MOHANDASS M
14	620517114023	MUTHUMANI K



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

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15	620517114025	PAZHANIBARATHI P
16	620517114027	POOVARASAN.M
17	620517114028	PRABHAKARAN K
18	620517114032	PRIYADHARSHAN M
19	620517114033	RANJITH A
20	620517114034	SANTHOSH KUMAR.S
21	620517114038	THAMIZHARASAN.E
22	620517114039	VENKATESH.C
23	620517114040	VINOTH KUMAR K
24	620518114001	ANBUMARAN.G
25	620518114002	ARAVINTH.K
26	620518114003	JANAVIGNESH.S
27	620518114005	KATHIK.Y
28	620518114008	MUSARAF.N
29	620518114010	RAMAKRISHNAN.N
30	620518114012	SANTHOSH.B
31	620518114017	VALLARASU.R

D. Ponaraj
29/8/20
PROGRAM CO-ORDINATOR

Y. Om
29/8/20
HOD



Dr. K. Mahadevan
Dr. K. MAHADEVAN B.E., M.E., Ph.D.
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CMS COLLEGE OF ENGINEERING NAMAKKAL 637003

ORGANISED BY
DEPARTMENT OF MECHANICAL ENGINEERING

VALUE ADDED COURSE
ON
NDT

DATE: 29.08.2020 to 10.10.2020

VENUE: CMSCE, LECTURE HALL



Dr. K. MAHADEVAN, B.E., M.E., Ph.D.
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DEPARTMENT OF MECHANICAL ENGINEERING VALUE ADDED COURSE- NDT SYLLABUS

Module-1

OVERVIEW OF NDT:

NDT Versus Mechanical testing, Overview of the Non-Destructive Testing Methods for the detection of manufacturing defects as well as material characterisation. Relative merits and limitations, Various physical characteristics of materials and their applications in NDT. Visual inspection – Unaided and aided.

Module-2

SURFACE NDT METHODS:

Liquid Penetrant Testing – Principles, types and properties of liquid penetrants, developers, advantages and limitations of various methods, Testing Procedure, Interpretation of results. Magnetic Particle Testing- Theory of magnetism, inspection materials, magnetization methods, Interpretation and evaluation of test indications, Principles and methods of demagnetization, Residual magnetism.

Module-3

THERMOGRAPHY AND EDDY CURRENT TESTING (ET):

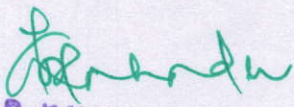
Thermography- Principles, Contact and non -contact inspection methods, Techniques for applying liquid crystals, Advantages and limitation – infrared radiation and infrared detectors, Instrumentations and methods, applications. Eddy Current Testing-Generation of eddy currents, Properties of eddy currents, Eddy current sensing elements, Probes, Instrumentation, Types of arrangement, Applications, advantages, Limitations, Interpretation/Evaluation.

Module-4

ULTRASONIC TESTING (UT) AND ACOUSTIC EMISSION (AE):

Ultrasonic Testing-Principle, Transducers, transmission and pulse-echo method, straight beam and angle beam, instrumentation, data representation, A/Scan, B-scan, C-scan. Phased Array Ultrasound, Time of Flight Diffraction. Acoustic Emission Technique –Principle, AE parameters, Applications.




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Module-5

RADIOGRAPHY (RT):

Principle, interaction of X-Ray with matter, imaging, film and film less techniques, types and use of filters and screens, geometric factors, Inverse square, law, characteristics of films – graininess, density, speed, contrast, characteristic curves, Penetrameters, Exposure charts, Radiographic equivalence, Fluoroscopy- Xero-Radiography, Computed Radiography, Computed Tomography.

Course Outcomes:

At the end of the course the student will be able to:

CO1: Classify various non-destructive testing methods.

CO2: Check different metals and alloys by visual inspection method.

CO3: Explain and perform non-destructive tests like: Liquid penetrant test, Magnetic particle test, Ultrasonic test, X- ray and Gamma ray radiography, Leak Test, Eddy current test.

CO4: Identify defects using relevant NDT methods.

CO5: Differentiate various defect types and select the appropriate NDT methods for better evaluation.

D. Ponnusamy
29/8/20.
PROGRAM CO-ORDINATOR

Y. D. M.
HOD 29/08/20



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