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

1.1.1 The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including academic calendar and conduct of continuous internal assessment

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

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

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

About Our Institutions

CMS College of Engineering(CMSCE) was established in the year 2007 by CMS Educational Trust. It is situated in the rural area of Namakkal district. The campus of CMS Educational Institutions is described as a sprawling complex covering 36 acres with a built-up area of 7,50,000 sq.ft.

Besides the physical infrastructure, the campus is noted for its overall beauty and serenity. The college is located in Eranapuram, 8 kilometers away from Namakkal (nearby Namakkal District Collectorate) and 42 kilometers from Erode, providing a serene environment for learning. Founded by Industrialist Dr C. Muthusamy, CMSCE aims to offer value-based courses that align with global requirements, especially focusing on uplifting rural communities by providing quality education.

It is a co-educational self-financial institution approved by AICTE and affiliated with Anna University, Chennai, Tamilnadu recognized by UGC under section 2(f).The Institute offers 6 undergraduate programs (i) Electrical and Electronics Engineering (ii) Electronics and Communication Engineering (iii) Computer Science and Engineering (iv) Biomedical Engineering (v) Artificial Intelligence & Data Science (vi) Mechanical Engineering.

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

Vision of the Institute

To transform the institution into an institution of excellence with global standards.

Mission of the Institute

1. To attain academic excellence by conveying knowledge and skills through problem solving, hands on training, and the creation of innovative projects through design and development

2. To foster leadership and interdisciplinary team skills, by the way of effective communication training and instilling ethical behavior.

3. To conduct applied research in Engineering & Technology and promote continuous lifelong learning.

Quality Policy:

Engaging in applied research within the field of Engineering and Technology while advocating for ongoing lifelong learning is our primary focus.

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

Merits of our Institution:

- The institution aims to bring rural students into the spotlight by educating them appropriately and focusing on skill development and employment opportunities.
- With a commitment to world-class infrastructure and a peaceful learning environment surrounded by greenery, CMS College of Engineering strives to make education accessible to all.
- Each department having its own dedicated resources, apart from having a centralized facility for all departments
- Governing Council, Academic council, Proctorial Committee, Grievance Redressal committee, Internal Committee, Institute Innovation cell, Library Committee, SC/ST Committee, Anti Ragging Committee for students to hone their employability and entrepreneurial skills.
- Providing scholarships based on sports and games achievements promotes diversity and inclusivity within the student body Regular awareness campaigns and orientation sessions can educate students about the negative consequences of ragging and promote a culture of respect, inclusivity, and empathy.

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

Various Federation Committees

- College Governing Council
- Academic council
- Proctorial Committee
- Grievance Redressal committee
- Institute Innovation cell
- Library Committee
- Internal Committee
- SC/ST Committee
- Social Media Cell
- Anti Ragging Committee
- Admission Cell

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

GOVERNING COUNCIL MEMBER

The Governing Council is constituted as per the norms prescribed by AICTE.

S No	Name	Designation
1	Dr.Muthusamy C, Honorable Chairman, CMS Educational Trust, Namakkal.	Chairman
2	Mr.Sridhar M, Honorable Vice Chairman, CMS Educational Trust, Namakkal.	Vice Chairman
3	Mrs Shanthi Muthusamy, Advisor to the Chairman, CMS Educational Trust, Namakkal.	Member-Management
4	Dr.R.Gandhi, Dean / Researcher, Gnanamani College of Technology, Namakkal.	Member-Academician
5	Dr.V.Vijayakumar, Associate Professor, Tagore Institute of Engineering And Technology, Deviyakurichi.	Member- Academician
6	Mr. P.Nachiyappan, Senior Tech Lead, BNP Paribas India Solutions PVT LTD	Member-Industry

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

7	Mr.Raghunath Selvaraj, Senior Support Manager, NCR Corporation India PVT LTD	Member-Industry
8	Ms.Iswarya Raghunath Technical Lead Zafin Software Center of Excellence PVT LTD	Member-Industry
9	Dr.C.A.Sathiyamoorthy, Principal CMS College of Engineering, Namakkal	Ex-Officio Member

CMS COLLEGE OF ENGINEERING NAMAKKAL

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

ACADEMIC COUNCIL

SI.NO	NAME	DESIGNATION
1	Dr.C.A.Sathiyamoorthy	Principal
2	Mr.S.Dhinesh	Assistant Professor & Head(CSE)
3	Mr.K.Periyasamy	Assistant Professor & Head (ECE)
4	Mr.G.Gopal	Assistant Professor & Head(Mech)
5	Mr.G.Suresh	Assistant Professor & Head (EEE)
6	Dr.V.Ponnarasan	Professor & Head (S&H)
7	Mr.P.Prabu	Assistant Professor (ECE)
8	Ms.V.Thiriburasundari	Assistant Professor (EEE)
9	Ms.K.LakshmiPriya	Assistant Professor (S&H)
10	Mr.M.Selva Kumar	Assistant Professor(Mech)

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

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

PROCTORIAL COMMITTEE

SI NO	NAME	DESIGNATION
1	Dr.C.A.Sathiyamoorthy	Principal
2	Mr.S.Dhinesh	Assistant Professor & Head(CSE)
3	Mr.K.Periyasamy	Assistant Professor & Head (ECE)
4	Mr.G.Gopal	Assistant Professor & Head(Mech)
5	Mr.G.Suresh	Assistant Professor & Head (EEE)
6	Dr.V.Ponnarasan	Professor & Head (S&H)
7	Ms.K.Dhivyasri	Assistant Professor (CSE)
8	Mr.T.Chandrasekaran	Assistant Professor(EEE)
9	Mr.S.Soundrakumar	Assistant Professor(ECE)
10	Mr.D.Ashok Kumar	Assistant Professor(MECH)

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

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

INSTITUTE INNOVATION CELL (IIC)

SI NO	NAME	DESIGNATION
1	Dr.C.A.Sathiyamoorthy	Principal
2	Dr.V.Ponnarasan	Professor & Head (S&H)
3	Mr.S.Dhinesh	Assistant Professor & Head(CSE)
4	Mr.K.Periyasamy	Assistant Professor & Head (ECE)
5	Mr.G.Gopal	Assistant Professor & Head(Mech)
6	Mr.G.Suresh	Assistant Professor & Head (EEE)
7	Ms.K.LakshmiPriya	Assistant Professor (PHY)
8	Ms.V.Thiriburasundari	Assistant Professor (EEE)
9	Mrs.K.Ramya	Assistant Professor (CSE)

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

LIBRARY COMMITTEE

SI NO	NAME	DESIGNATION
1	Dr.C.A.Sathiyamoorthy	Principal
2	Mr.V.Ramkumar	Librarian
4	Mr.S.Dhinesh	Assistant Professor & Head(CSE)
5	Mr.K.Periyasamy	Assistant Professor & Head (ECE)
6	Mr.G.Gopal	Assistant Professor & Head(Mech)
7	Mr.G.Suresh	Assistant Professor & Head (EEE)
8	Dr.V.Ponnarasan	Professor & Head (S&H)
10	Mr.S.Soundrakumar	Assistant Professor (ECE)
11	Mr.D.Paulraju	Assistant Professor (EEE)
12	Mr. S.Madhan	Assistant Professor (CSE)

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

ANTI RAGGING COMMITTEE

SI.NO	NAME	DESIGNATION
1	Dr.C.A.Sathiyamoorthy	Principal
2	Mr.P.Selvaraj	Inspector of Police V.G.Patti PS
3	Mrs.K.UshaNandhini	Director ,NGO representative
4	Mr.S.Dhinesh	Assistant Professor & Head(CSE)
5	Mr.K.Periyasamy	Assistant Professor & Head (ECE)
6	Mr.G.Gopal	Assistant Professor & Head(Mech)
7	Mr.G.Suresh	Assistant Professor & Head (EEE)
8	Dr.V.Ponnarasan	Professor & Head (S&H)
9	Mr.P.Tamilarasan	Boys Hostel Warden
10	Mrs.R.Pushpa	Girls Hostel Warden
11	Mr.D.Damodaran	Student
12	Mr.K.Baskar	Student
13	Ms.N.Monisha	Student

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

TIME TABLE COMMITTEE

SI NO	NAME	DESIGNATION
1	Dr.C.A.Sathiyamoorthy	Principal
2	Mr.S.Dhinesh	Assistant Professor & Head(CSE)
3	Mr.K.Periyasamy	Assistant Professor & Head (ECE)
4	Mr.G.Gopal	Assistant Professor & Head(Mech)
5	Mr.G.Suresh	Assistant Professor & Head (EEE)
6	Dr.V.Ponnarasan	Professor & Head (S&H)
7	Mr.V.Gopalakrishnan	Assistant Professor (MECH)
8	Mr.T.Chandrasekaran	Assistant Professor (EEE)
9	Mrs.K.Ramya	Assistant Professor (CSE)
10	Mr.V.Vellaiyan	Assistant Professor(MATHS)
11	Mr.P.Prabu	Assistant Professor(ECE)

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

ADMISSION CELL

SI NO	NAME	DESIGNATION
1	Dr.C.A.Sathiyamoorthy	Principal
2	Mr.S.Dhinesh	Assistant Professor & Head(CSE)
3	Mr.K.Periyasamy	Assistant Professor & Head (ECE)
4	Mr.G.Gopal	Assistant Professor & Head(Mech)
5	Mr.G.Suresh	Assistant Professor & Head (EEE)
6	Mrs.P.Lalitha	Assistant Professor & Head (S&H)
7	Mr.V.Gopalakrishnan	Associate Professor (MECH)
8	Mr.T.Chandrasekaran	Assistant Professor (EEE)
9	Mrs.K.Ramya	Assistant Professor (CSE)
10	Mr.S.Soundrakumar	Assistant Professor(ECE)

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

IQAC

The "IQAC Cell" likely refers to the Internal Quality Assurance Cell (IQAC) in any educational institution. IQAC is a mechanism in higher education institutions for systematic monitoring and quality enhancement. It is responsible for developing a system for conscious, consistent, and catalytic action to improve the academic and administrative performance of the institution. IQAC may oversee various quality assurance processes, including accreditation, curriculum development, faculty development, student feedback mechanisms, infrastructure development, and more.

OBJECTIVES OF IQAC:

The objectives of an Internal Quality Assurance Cell (IQAC) typically revolve around ensuring and enhancing the quality of education and other activities within an institution

- Development and application of quality benchmarks
- Formulating policies for quality enhancement
- Continuous monitoring and evaluation
- Facilitating accreditation processes
- Promoting institutional research and innovation
- Enhancing teaching-learning processes
- Ensuring student-centric approach
- Faculty and staff development

FUNCTION OF IQAC CELL

- Development and implementation of quality policies
- Coordination of quality assurance activities
- Monitoring and evaluation
- Benchmarking and best practices

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

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

- Documentation and reporting
- Facilitating accreditation processes
- Faculty and staff development
- Student feedback mechanisms
- Curriculum development and review
- Quality audit and internal reviews
- Promotion of ethical practices

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

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

Date: 04.05.2023

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: : CHENNAI – 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

May 2023 – August 2023 (Even Semester)

UG (FT/PT) & PG (FT) Degree Programmes

Sl. No.	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	B.E. / B.Tech.(Full-Time)	II	10.05.2023	07.08.2023**	09.08.2023	21.08.2023
2.	B.Arch. (Full-Time)	II				
3.	B.E. / B.Tech (Part-Time)	II				
4.	M.E. / M. Tech. / M. Arch. (FT)	IV				

RE - OPENING DAY FOR THE NEXT SEMESTER: 11.09.2023 (Monday)

NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

** In order to ensure minimum no. of working days, the following Saturdays are declared as working days.

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	13.05.2023	Friday
2.	20.05.2023	Monday
3.	27.05.2023	Tuesday
4.	03.06.2023	Wednesday
5.	10.06.2023	Thursday
6.	17.06.2023	Friday

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
7.	24.06.2023	Monday
8.	01.07.2023	Tuesday
9.	08.07.2023	Wednesday
10.	15.07.2023	Thursday
11.	22.07.2023	Friday
12.	05.08.2023	Monday

04/05/2023

DIRECTOR
ACADEMIC COURSES

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

DAC - SB

Date: 28.01.2023

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: : CHENNAI – 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

February 2023 – May 2023 (Even Semester – Except Semester II)

UG / PG (FT/PT) Degree Programmes

Sl. No.	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	B.E. / B.Tech.(Full-Time)	IV,VI,VIII	06.02.2023	12.05.2023**	15.05.2023	26.05.2023
2.	B.Arch. (Full-Time)	IV,VI,VIII,X				
3.	B.E. / B.Tech. (Part-Time)	IV,VI				
4.	M.B.A. (Full-Time & Part-Time)	IV				
5.	M.B.A. (5 Yrs-Integrated)	IV,VI,VIII,X				

RE - OPENING DAY FOR THE NEXT SEMESTER: 31.07.2023 (Monday)

NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

** In order to ensure minimum no. of working days, the following Saturdays are declared as working days.

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	11.02.2023	Monday
2.	18.02.2023	Tuesday
3.	25.02.2023	Wednesday
4.	04.03.2023	Thursday
5.	11.03.2023	Friday

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
6.	18.03.2023	Monday
7.	25.03.2023	Tuesday
8.	01.04.2023	Wednesday
9.	29.04.2023	Thursday
10.	06.05.2023	Friday

28.01.2023

DIRECTOR
ACADEMIC COURSES

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

DAC - SB

Date: 02.11.2022

REVISED - I

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: : CHENNAI – 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

August 2022 – December 2022 (Semester III)

UG (FT/PT) & PG (FT/PT) Degree Programmes

Sl. No.	Programme	Semester	Commencement of Classes	Last working day		Commencement of Practical Examinations		Commencement of End Semester Examinations	
				Existing	Revised	Existing	Revised	Existing	Revised
1.	B.E. / B.Tech. (Full-Time)	III	22.08.2022	08.12.2022	27.12.2022	10.12.2022	18.01.2023	21.12.2022	29.12.2022
2.	B.Arch. (Full-Time)	III	22.08.2022	08.12.2022	-	10.12.2022	18.01.2023	21.12.2022	29.12.2022
3.	B.E. / B.Tech (Part-Time)	III							
4.	M.B.A. (5 Yrs-Integrated)	III							
5.	M.B.A. (Full-Time & Part-Time)	III	01.09.2022	19.12.2022	-	21.12.2022	18.01.2023	02.01.2023	29.12.2022

RE - OPENING DAY FOR THE NEXT SEMESTER: 01.02.2023 (Wednesday)

NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

02/11/2022

DIRECTOR
ACADEMIC COURSES

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

DAC - SB

Date: 02.11.2022

REVISED - I

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: : CHENNAI – 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

August 2022 – December 2022 (Semester III)

UG (FT/PT) & PG (FT/PT) Degree Programmes

Sl. No.	Programme	Semester	Commencement of Classes	Last working day		Commencement of Practical Examinations		Commencement of End Semester Examinations	
				Existing	Revised	Existing	Revised	Existing	Revised
1.	B.E. / B.Tech. (Full-Time)	III	22.08.2022	08.12.2022	27.12.2022	10.12.2022	18.01.2023	21.12.2022	29.12.2022
2.	B.Arch. (Full-Time)	III	22.08.2022	08.12.2022	-	10.12.2022	18.01.2023	21.12.2022	29.12.2022
3.	B.E. / B.Tech (Part-Time)	III							
4.	M.B.A. (5 Yrs-Integrated)	III							
5.	M.B.A. (Full-Time & Part-Time)	III	01.09.2022	19.12.2022	-	21.12.2022	18.01.2023	02.01.2023	29.12.2022

RE - OPENING DAY FOR THE NEXT SEMESTER: 01.02.2023 (Wednesday)

NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

02/11/2022

DIRECTOR
ACADEMIC COURSES

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

DAC - SB

Date: 02.11.2022

REVISED

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: : CHENNAI – 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

August 2022 – December 2022 (ODD SEMESTER – Except Semester III)

UG Programmes

Sl. No	Programme	Semester	Commencement of Classes	Last working day		Commencement of Practical Examinations		Commencement of End Semester Examinations	
				Existing	Revised	Existing	Revised	Existing	Revised
1.	B.E. / B.Tech.(Full-Time)	V, VII	10.08.2022	19.11.2022	06.12.2022**	21.11.2022	18.01.2023	01.12.2022	08.12.2022
2.	B.E. / B.Tech (Part-Time)	V, VII	10.08.2022	19.11.2022	-	21.11.2022	-	01.12.2022	-
3.	B.Arch. (Full-Time)	V, VII, IX							

RE - OPENING DAY FOR THE NEXT SEMESTER: 30.01.2023 (Monday)

NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

**** In order to ensure minimum no. of working days, the following Saturdays are declared as working days.**

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	20.08.2022	Monday
2.	03.09.2022	Friday
3.	17.09.2022	Wednesday
4.	15.10.2022	Tuesday
5.	29.10.2022	Wednesday

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
6.	05.11.2022	Monday
7.	12.11.2022	Tuesday
8.	19.11.2022	Wednesday
9.	26.11.2022**	Thursday
10.	03.12.2022**	Friday

02/11/2022

DIRECTOR
ACADEMIC COURSES

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

CMS COLLEGE OF ENGINEERING NAMAKKAL

DAC - SB

Date: 21.03.2022

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: : CHENNAI – 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

April 2022 – July 2022 (Semester II)

UG (FT/PT) & PG (FT/PT) Degree Programmes

Sl. No.	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	B.E. / B.Tech.(Full-Time)	II	04.04.2022	04.07.2022**	06.07.2022	18.07.2022
2.	B.Arch. (Full-Time)	II				
3.	B.E. / B.Tech (Part-Time)	II				
4.	M.B.A. (Full-Time & Part-Time)	II				
5.	M.B.A. (5 Yrs-Integrated)	II				

RE - OPENING DAY FOR THE NEXT SEMESTER: 22.08.2022 (Monday)

NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

** In order to ensure minimum no. of working days, the following Saturdays are declared as working days.

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	09.04.2022	Thursday
2.	23.04.2022	Friday
3.	30.04.2022	Tuesday
4.	07.05.2022	Monday
5.	14.05.2022	Tuesday
6.	21.05.2022	Wednesday

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
7.	28.05.2022	Thursday
8.	04.06.2022	Friday
9.	11.06.2022	Monday
10.	18.06.2022	Tuesday
11.	25.06.2022	Wednesday
12.	02.07.2022	Thursday

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

21/3/22
DIRECTOR i/c
ACADEMIC COURSES

DAC - SB

Date: 04.03.2022

REVISED

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: : CHENNAI – 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

March 2022 – June 2022 (Even Semester – Except Semester II)

UG (FT/PT) Degree Programmes

Sl. No.	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	B.E. / B.Tech.(Full-Time)	IV,VI,VIII	16.03.2022	16.06.2022**	18.06.2022	28.06.2022
2.	B.E. / B.Tech (Part-Time)	IV,VI				
3.	B.Arch. (Full-Time)	IV,VI,VIII,X				

RE - OPENING DAY FOR THE NEXT SEMESTER: 10.08.2022 (Wednesday)

NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

** In order to ensure minimum no. of working days, the following Saturdays are declared as working days.

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	19.03.2022	Tuesday
2.	26.03.2022	Wednesday
3.	09.04.2022	Thursday
4.	23.04.2022	Friday
5.	30.04.2022	Tuesday
6.	07.05.2022	Monday

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
7.	14.05.2022	Tuesday
8.	21.05.2022	Wednesday
9.	28.05.2022	Thursday
10.	04.06.2022	Friday
11.	11.06.2022	Monday

04/03/2022

DIRECTOR
ACADEMIC COURSES

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

DAC - SB

Date: 25.10.2021

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: : CHENNAI – 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

November 2021 – March 2022 (SEMESTER I)

UG (FT) Degree Programmes

Sl. No.	Programme	Semester	Commencement of Induction Programme	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	B.E. / B.Tech. (Full Time)	I	08.11.2021	22.11.2021	08.03.2022	10.03.2022	21.03.2022

RE-OPENING DAY FOR THE NEXT SEMESTER: 18.04.2022 (Monday)

NOTE:

1. The Theory and Practical Examination schedules will be published in due course. (Practical Examinations will be conducted before the theory examinations).
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

DIRECTOR
ACADEMIC COURSES

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

DAC - SB

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 CALENDAR 2022-2023 (ODD SEMESTER) COMMON TO ALL BRANCHES (SEMESTER - III)

AUGUST - 2022				SEPTEMBER - 2022				OCTOBER - 2022				NOVEMBER - 2022				DECEMBER - 2022			
DATE	DAY	WD	ACTIVITY	DATE	DAY	WD	ACTIVITY	DATE	DAY	WD	ACTIVITY	DATE	DAY	WD	ACTIVITY	DATE	DAY	WD	
1	MON			1	THU	9		1	SAT	35		1	TUE	58	IA - II	1	THU	84	
2	TUE			2	FRI	10		2	SUN		GANDHI JAYANTHI	2	WED	59	IA - II	2	FRI	85	
3	WED			3	SAT	11	Value added course	3	MON	36		3	THU	60	IA - II	3	SAT	86	Value added course
4	THU			4	SUN		HOLIDAY	4	TUE		AAYUTHA POOJA & VIJAYADASAMI	4	FRI	61	IA - II	4	SUN		HOLIDAY
5	FRI			5	MON	12		5	WED			5	SAT	62	IA - II	5	MON	87	MODEL
6	SAT			6	TUE	13		6	THU	37		6	SUN		HOLIDAY	6	TUE	88	MODEL
7	SUN		HOLIDAY	7	WED	14		7	FRI	38		7	MON	63		7	WED	89	MODEL
8	MON			8	THU	15		8	SAT	39		8	TUE	64		8	THU	90	MODEL
9	TUE		MUHARRAM	9	FRI	16		9	SUN		HOLIDAY	9	WED	65		9	FRI	91	MODEL
10	WED			10	SAT	17		10	MON	40	SYMPOSIUM	10	THU	66		10	SAT	92	MODEL
11	THU			11	SUN		HOLIDAY	11	TUE	41		11	FRI	67		11	SUN		HOLIDAY
12	FRI			12	MON	18		12	WED	42		12	SAT	68	Value added course	12	MON	93	COACHING
13	SAT			13	TUE	19		13	THU	43		13	SUN		HOLIDAY	13	TUE	94	COACHING
14	SUN		HOLIDAY	14	WED	20		14	FRI	44		14	MON	69		14	WED	95	COACHING
15	MON		INDEPENDENCE DAY	15	THU	21		15	SAT	45		15	TUE	70		15	THU	96	COACHING
16	TUE			16	FRI	22		16	SUN		HOLIDAY	16	WED	71		16	FRI	97	COACHING
17	WED			17	SAT	23	Value added course	17	MON	46		17	THU	72		17	SAT	98	COACHING

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

18	THU			18	SUN		HOLIDAY	18	TUE	47		18		73		18	SUN		HOLIDAY
19	FRI		GOKULASTAMI	19	MON	24	IA - I	19	WED	48		19	SAT	74		19	MON	99	COACHING
20	SAT			20	TUE	25	IA - I	20	THU	49		20	SUN		HOLIDAY	20	TUE	100	COACHING
21	SUN		HOLIDAY	21	WED	26	IA - I	21	FRI	50		21	MON	75		21	WED	101	COACHING
22	MON	1	Anna University Re-Open	22	THU	27	IA - I	22	SAT	51	Value added course	22	TUE	76		22	THU	102	COACHING
23	TUE	2		23	FRI	28	IA - I	23	SUN		HOLIDAY	23	WED	77		23	FRI	103	COACHING
24	WED	3		24	SAT	29	IA - I	24	MON		DIWALI	24	THU	78		24	SAT	104	COACHING
25	THU	4		25	SUN		HOLIDAY	25	TUE	52		25	FRI	79		25	SUN		HOLIDAY
26	FRI	5		26	MON	30		26	WED	53		26	SAT	80		26	MON	105	COACHING
27	SAT	6		27	TUE	31		27	THU	54		27	SUN		HOLIDAY	27	TUE	106	Last Working Day
28	SUN		HOLIDAY	28	WED	32		28	FRI	55		28	MON	81		28	WED		
29	MON	7		29	THU	33		29	SAT	56		29	TUE	82		29	THU		
30	TUE	8		30	FRI	34		30	SUN		HOLIDAY	30	WED	83		30	FRI		
31	WED	VINAYAGAR CHADURTHI						31	MON	57	IA - II					31	SAT		

COMMENCEMENT OF CLASSES	22.08.2022
LAST WORKING DAY	27.12.2022
TOTAL NUMBER OF WORKING DAYS	106

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

PRINCIPAL

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

ANNA UNIVERSITY, CHENNAI - 600 025

AFFILIATED INSTITUTIONS

REGULATIONS 2021

CHOICE BASED CREDIT SYSTEM

Common to all B. E. / B. Tech. Full-Time Programmes

(For the students admitted to B. E./B. Tech. Programme at various Non-Autonomous Affiliated Institutions)

DEGREE OF BACHELOR OF ENGINEERING / BACHELOR OF TECHNOLOGY

This Regulation is applicable to the students admitted to B.E/B.Tech. Programmes at all Engineering Colleges affiliated to Anna University, Chennai (other than Autonomous Colleges) and to all the University Colleges of Engineering of Anna University, Chennai from the academic year 2021-2022 onwards.

1 PRELIMINARY DEFINITIONS AND NOMENCLATURE

In this Regulation, unless the context otherwise specifies:

I. "**Programme**" means Degree Programme, that is B.E./B.Tech. Degree Programme.

II. "**Discipline**" means specialization or branch of B.E./B.Tech. Degree Programme, like Civil Engineering, Textile Technology, etc.

III. "**Course**" means a theory or practical subject that is normally studied in a semester, like Mathematics, Physics, etc.

IV. **"Director, Centre for Academic Courses"** means the authority of the University who is responsible for all academic activities of the Academic Programmes for implementation of relevant rules of this Regulations pertaining to the Academic Programmes.

V. **"Chairperson"** means the Head of the Faculty.

VI. **"Head of the Institution"** means the Principal of the College.

VII. **"Head of the Department (HOD)"** means the Head of the Department concerned.

VIII. **"Controller of Examinations (COE)"** means the authority of the University who is responsible for all activities of the University Examinations.

IX. **"University"** means ANNA UNIVERSITY, CHENNAI.

2 ADMISSION

2.1 Candidates seeking admission to the first semester of the eight semesters

B.E./ B.Tech. Degree Programme:

Should have passed the Higher Secondary Examinations of (10+2) Curriculum (Academic Stream) prescribed by the Government of Tamil Nadu with Mathematics, Physics and Chemistry as three of the four subjects of study under Part-III or any examination of any other University or authority accepted by the Syndicate of Anna University as equivalent thereto.

(OR)

Should have passed the Higher Secondary Examination of Vocational stream (Vocational groups in Engineering / Technology) as prescribed by the Government of Tamil Nadu.

2.2 Lateral entry admission

(i) The candidates who possess the Diploma in Engineering / Technology awarded by the State Board of Technical Education, Tamil Nadu or its equivalent are eligible to apply for Lateral entry admission to the third semester of B.E. / B.Tech., as per the rules fixed by Government of Tamil Nadu.

(OR)

(ii) The candidates who possess the Degree in Science (B.Sc.) (10+2+3 stream) with Mathematics as a subject at the B.Sc. Level are eligible to apply for Lateral entry admission to the third semester of B.E. / B.Tech.

Such candidates shall undergo two additional Engineering subject(s) in the **third and fourth semesters** as prescribed by the University.

3 PROGRAMMES OFFERED

B.E. / B.Tech. Programmes under the Faculty of Civil Engineering, Faculty of Mechanical Engineering, Faculty of Electrical Engineering, Faculty of Information and Communication Engineering and Faculty of Technology.

4 STRUCTURE OF THE PROGRAMMES

4.1 Categorization of Courses

Every B.E. / B. Tech. Programme will have a curriculum with syllabi consisting of theory and practical courses that shall be categorized as follows:

i. **Humanities, Social Sciences and Management Courses (HSMC)** include Professional English, Communication skills etc.

ii. **Basic Sciences Courses (BSC)** include Mathematics, Physics, Chemistry, Biology, Environmental Science etc.

iii. **Engineering Sciences Courses (ESC)** include Engineering Practices, Engineering Graphics, Basics of Civil / Mechanical / Electrical / Electronics /

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

Instrumentation, Computer Engineering, etc.

iv. **Professional Core Courses (PCC)** include the core courses relevant to the chosen specialization/branch.

v. **Professional Elective Courses (PEC)** include the elective courses relevant to the chosen specialization/ branch. Professional Elective courses are offered under verticals (specialisation groups).

Amendment of Clause 4.1 (v)

vi. **Open Elective Courses (OEC)** include the courses offered by a branch to other branches, from the list specified in the respective curriculum of the B.E. / B. Tech. / B. Arch. Programmes.

vii. **Employability Enhancement Courses (EEC)** include Project Work, Internship, Seminar, Professional Practices, Case Study and Industrial/Practical Training etc.

viii. **Mandatory courses (MC)** include the courses such as Languages, Well being etc.

Amendment of Clause 4.1.viii

ix. **Employability Enhancement Skill Based Courses**

Skill based experiential learning courses will be offered in two categories as purely Laboratory Based Courses and Theory Integrated Laboratory Courses.

Insertion of New Clause 4.1. ix

4.2 **Personality and Character Development**

All students shall enroll, on admission, in any one of the personality and character development programmes NCC/NSS/NSO/YRC and undergo training / conduct activities for about 80 hours and attend a camp of about seven days. The training shall include classes on hygiene and health awareness and also training in first-aid. Alternately, activities of science, literature and arts also help for personality and character development. So, students shall conduct and participate actively in Science club/Literary Forum/Fine Arts activities for 80 hours and participate in at least ONE event.

National Cadet Corps (NCC) will have about 20 parades.

National Service Scheme (NSS) will have social service activities in and around the College / Institution.

National Sports Organization (NSO) will have Sports, Games, Drills and Physical exercises.

Youth Red Cross (YRC) will have activities related to social services in and around College/Institution.

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

While the training activities will normally be during weekends, the camp will normally be during vacation period.

Science club shall organise activities of popularisation of science and scientific temper through activities related to astronomy, works of great scientists from India and abroad, observing National Science Day, etc.

Literary Club like 'Tamil Ilakkiya Mandram' shall be formed, which shall organise colourful literary events to propagate good humanist values, morals and ethics reflected in the literature.

Fine Arts Club like music, painting and documentary films with social themes shall be encouraged.

Students who enroll and take active participation in anyone of the above activities for 80 hours and participate at least one event/programme will be given a certificate by the Head of the Institution and the copy of the same shall be forwarded to the Controller of Examinations for the purpose of record and scrutiny.

No fee shall be charged for all these activities.

4.2 A Induction Programme

Insertion of New Clause 4.2 A

- Induction Programme is mandatory for the students pursuing the Undergraduate Programme.
- List of students who have successfully completed the Induction Programme shall be certified by the Head of the Institution.
- The completion of the Induction Programme shall be printed in the Grade Sheet as "**COMPLETED**".
- In the case of students who have got admitted later and those who have not attended the Induction Programme at the time of joining the degree programme, it shall be conducted later and on completion, it shall be recorded in the grade sheet.
- No fee will be charged towards the conduct of the Induction Programme and for including in the STATEMENT OF GRADES for the successful completion of the Induction Programme.

4.3 **Number of courses per semester**

Each semester curriculum shall normally have a blend of lecture courses not exceeding **7** Theory courses and Laboratory integrated theory courses and **4** Employability Enhancement Course(s) and Laboratory Courses. However, the total number of courses per semester shall not exceed 10. Each Course shall have credits assigned as per clause 4.4.

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

4.4 **Credit Assignment**

Each course is assigned certain number of credits based on the following:

Contact period per week	CREDITS
1 Lecture Period	1
1 Tutorial Period	1
1 Laboratory Period (also for EEC courses like Seminar / Project Work /Case study / etc.)	0.5

4.5. Industrial Training/ Internship

4.5.1 The students may undergo Industrial training for a period as specified in the Curriculum during the summer / winter vacation. In this case, the training has to be undergone continuously for a period of at least two weeks in an organization.

The students may undergo Internship at a Research organization / University/ Industry (after due approval from the Head of the Institution) for the period prescribed in the curriculum during the summer / winter vacation, in lieu of Industrial training. Attendance Certificate mentioning the period of Industrial Training / Internship and signed by the competent authority of the industry, as per the format provided by the Centre for Academic Courses shall be submitted to the Head of the Institution. The attendance certificate shall be forwarded to the COE, Anna University by the Head of the Institution for processing results.

4.5.2 If Industrial Training/ Internship is not prescribed in the curriculum, the student may undergo Industrial Training/ Internship optionally and the credits earned will be indicated in the Grade Sheet. If the student earns three credits in Industrial Training/ Internship, the student may drop one Professional Elective (only one professional elective can be dropped). In such cases, Industrial Training / Internship need to be undergone continuously from one organization or with a combination one two week and one four week from one/two organizations. However, if the number of credits earned is 1 or 2, then these credits shall not be considered for classification of the degree. Students shall get permission from the Head of the Institution for taking Industrial Training/Internship and the Certificate of completion of Industrial Training / Internship shall be forwarded to the COE.

DURATION OF TRAINING / INTERNSHIP	CREDITS
2 Weeks*	1
4 Weeks	2
6 Weeks	3

***1 Week = 40 Internship Hours**

Dr.K.MANAVEVAN, B.E., M.E., Ph.D
PRINCIPAL
GMS COLLEGE OF ENGINEERING,

4.6 Industrial Visit

Every student is required to go for at least one Industrial Visit every semester starting from the second year of the Programme. The Heads of Departments shall ensure that necessary arrangements are made in this regard.

4.7 Value Added Courses

Amendment of Clause 4.7

- Students may optionally undergo Value Added Courses and the credits earned through the Value Added Courses shall be over and above the total credit requirement prescribed in the curriculum for the award of the degree. Courses with two/ three credits shall be offered by a Department of an institution with the prior approval from the Director, Academic Courses.
- The details of the syllabus, timetable and faculty may be sent to the Centre for Academic Courses after approval from the Head of the Institution.
- Students shall be allowed to take these courses offered in other Departments also, but with the permission of the Head of the Institution of student and Head of the institution offering the course.
- The courses once approved by the University represented by any Department shall be made available in the University website and these courses can be offered by the University Departments / Constituent colleges / affiliated colleges (Non-Autonomous with information to Director Academic Courses.

4.8 Off campus courses and Transfer of Credits

Amendment of Clause 4.8

Students are permitted to optionally enroll and study a maximum of three off campus courses in physical/online/hybrid mode under each UG programme with the approval of Director, Centre for Academic courses as per the Regulations. The successful completion of these courses through any of the following modes shall be considered in lieu of professional elective / open elective courses of curriculum as approved by the Head of the Institution.

4.8.1 Students are permitted to optionally enroll and study these courses through SWAYAM - NPTEL platforms and credit transfer is to be done based on the marks and certificate provided by the NPTEL. The number of credits and transfer of credits are based on the procedure explained in Table 3 and the Mapping of the marks with the grades is explained in Table 4. The mapping of marks with grades is applicable, only if the student passes the course as per the guidelines of NPTEL.

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

Table 3: Duration of the course and Number of credits

Sl. No.	No. of Weeks	No. of Credits
4	4	1
5	8	2
6	12	3
7	16	4

Table 4: Mapping of Marks scored in NPTEL course and Credits earned

Letter Grade	Marks
O	90-100
A+	80-89
A	70-79
B+	60-69
B	50-59
C	40-49

4.8.2. Students are permitted to optionally enroll and study the courses in physical / hybrid / online modes offered by reputed Central / State funded Universities / Institutions which are in the top 20 positions in the latest NIRF ranking and also conducting examination towards award of marks and grades. (NIRF Ranking of any of the last three years with respect to the year in which course is to be registered; NIRF ranking is based on respective stream for professional elective courses and based on any stream for open elective courses).

Students are also permitted to enroll and undergo such courses in Online mode at Universities abroad in top 500 in QS ranking in the last three years.

Students are also permitted to study courses of a particular semester in a University / Institution abroad based on MoU. A learning agreement shall be evolved to map all the courses offered in the programme and the courses offered in University abroad as per the procedure outlined by the Centre for Academic Courses The credits earned by the students in the University abroad shall be transferred as per the learning agreement.

In the case of 4.8.2, the students can enroll for the courses with the approval of the Head of the institution only if the course is offered directly by Institution/University and not with the edutech platforms.

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

The marks/credits earned by the student shall be transferred based on the decision of a committee constituted by Director, Centre for Academic courses and approved by the University.

4.8.3 Students are also permitted to enroll and study the courses in physical/hybrid mode (not less than 50% in physical mode) that are offered by (i) National/State funded research institutions/laboratories and (ii) reputed companies (manufacturing or software) related to the programme, and (b) reputed companies involved in transfer of knowledge provided the knowledge transferring company is a spinoff from an Engineering/Technology practicing Industry and sharing the work experience of the respective industry. The companies mentioned in 4.8.3 (ii) (a) and the company with which the knowledge transfer company associated in the case of 4.8.3 (ii) (b) should have average annual turnover of more than 200 crores over a period of 5 years. However, the academic content and delivery shall be in consonance with the University academic standards and norms.

The minimum qualification of the course instructor from the company as mentioned in 4.8.3. (ii) shall be B.E./B.Tech with 10 years of research / industrial experience . Such courses shall be offered through MOU / MOA between Anna University and such institutions/organizations/ companies. The design of the courses with regard to the syllabus content, duration of each course and number of credits offered for each course shall be discussed and recommended by the Head of the Institution and approved by Director, Centre for Academic Courses as per the Regulations.

For the offer of each course under 4.8.3, a course coordinator shall be nominated from the Department who shall also attend such course and shall coordinate the question paper setting and answer script evaluation with the course instructor from research institution /laboratories /industry/ company for the continuous assessment and end semester examination conducted by the University. The passing requirements are as per regulations.

4.9 Mandatory courses

Amendment of Clause 4.9

The student shall study the mandatory courses prescribed by the University and it will be mentioned in the Grade Sheet. However, it will not be considered for computation of CGPA.

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

Dr.K.MANADEVAN,B.E.,M.E.,Ph.D
PRINCIPAL
CMS COLLEGE OF ENGINEERING,

4.10 B.E. / B. Tech. (Hons) and B.E. / B. Tech. minor with specialisation in another discipline.

Amendment of Clause 4.10

(i) B.E / B.Tech. (Hons.)

a. The students should have taken additional courses from a specified group of Professional Electives (vertical) or from any of the verticals of the same programme and earned a minimum of 18 credits.

b. Should have passed all the courses prescribed in the curriculum and additional courses in the first attempt.

c. Should have earned a minimum of 7.50 CGPA taking into account of all the courses prescribed in the curriculum and additional courses.

(ii) B.E./B.Tech. Minor with specialisation in another discipline

The student should have earned additionally a minimum of 18 credits in any one of the verticals offered from Engineering Disciplines / Science and Humanities / Management

1. For these 18 credits students can optionally enroll and study a maximum of 6 credits in online mode from SWAYAM-NPTEL platform (in addition to the three online courses permitted for courses of curriculum), as approved by the Centre for Academic Courses.

2. B.E / B.Tech. (Hons.) and B.E./B.Tech. minor with specialisation in another discipline will be optional for students and the students shall be permitted to select any one of them only.

3. For the categories 4.10 (i), the students, including Lateral Entry, shall be permitted to register for the courses from Semester V onwards provided the students have earned a minimum CGPA of 7.50 until Semester III and have cleared all the courses in the first attempt.

4. For the category 4.10 (ii), the students, including Lateral Entry, will be permitted to register the courses from Semester V onwards provided the marks earned by the students until Semester III is CGPA 7.50 and above.

5. B.E/B.Tech. (Hons.) or B.E./ B.Tech. Minor shall be offered by the Department irrespective of the number of students enrolled.

6. If a student decides not to opt for Honours, after completing certain number of additional courses, such additional courses studied shall be considered instead of the Professional Elective courses which are part of the curriculum.

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

If the student has studied more number of such courses than the number of Professional Elective courses required as per the curriculum, the courses with higher grades shall be considered for the calculation of CGPA. Remaining courses shall be printed in the grade sheet however, they will not be considered for calculation of CGPA and the same shall be indicated in a foot note appropriately.

If the student has failed in the additional courses or faced shortage of attendance, they will not be printed in the grade sheet and will not be considered for CGPA calculation and classification of degree.

7. If a student decides not to opt for Minor, after completing certain number of courses, the additional courses studied shall be considered instead of Open Elective courses which are part of the curriculum.

If the student has studied more number of such courses than the number of open electives required as per the curriculum, the courses with higher grades shall be considered for calculation of CGPA. Remaining courses shall be printed in the grade sheet, however, they will not be considered for calculation of CGPA and the same shall be indicated in a foot note appropriately.

If the student has failed in the additional courses or faced shortage of attendance, they will not be printed in the grade sheet and will not be considered for CGPA calculation and classification of degree.

The student has to enroll for these additional courses separately and pay a tuition fee for studying these six additional courses and pay additional exam fee.

For the students who have joined the programme in the year 2020 are also permitted to Register for B.E./B.Tech. Hons. and minor with the condition that the student should have earned 7.50 CGPA till V semester. For Hons. the student should have passed all the courses in the first attempt. The student should complete the additional 18 credits within 4 ½ years.

4.11 Medium of Instruction

The medium of instruction is English for all courses, examinations, Seminar presentations and Project Work reports except for the programmes offered in Tamil Medium.

4.12 Employability Enhancement Skill Based Courses

Insertion of New Clause 4.12

Skill based experiential learning courses will be offered in two categories as purely Laboratory Based Courses and Theory Integrated Laboratory Courses with the following credits. One such course will be offered in every semester from V to VII.

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

Category	L	T	P	C
Laboratory Courses	0	0	4	2
	0	0	2	1
Theory integrated Laboratory Course	1	0	2	2

A student may accumulate upto 6 credits through such courses, and such credits will be considered in lieu of the Professional Elective and/or Open Elective courses.

These courses may be offered with the support of the identified firms/companies and with one course coordinator per course and a mentor from the firm.

Evaluation Procedure:

The evaluation of the above mentioned courses are fully internal and shall be jointly done by the course coordinator from the institution and the mentor from the firm.

(a) If the course involves certification from an identified firm/company, then 20% of the total marks will be included in the internal assessment marks, 30% will be included from the marks provided by the firm and 50% shall be evaluated by the respective Course Coordinators of the college by conducting appropriate theory and / or laboratory tests.

(b) If there is no certification from the firm/company, then 50% will be included from the marks provided by the firm and 50% shall be evaluated by the respective Course Coordinators of the college by conducting appropriate theory and / or laboratory tests.

Procedure to drop Professional Elective / Open Elective course(s) and computation of Grade point

A student may accumulate up to 6 credits through such courses, and such credits will be considered in lieu of the Professional Elective and/or Open Elective courses. In this regard, a student is permitted to drop either 1 or 2 Professional Elective / Open Elective course(s) as per the procedure given below.

Table: Procedure to drop Professional Elective / Open Elective course(s)

No. of courses	Total No. of credits earned	Courses to be printed in the grade sheet	No. of Professional elective/ open elective can be dropped	No. of credits considered for GPA/CGPA calculation
1	2	1	-	-
2	4	2	1	3
3	6	3	2	6

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

- The credits earned by the student of the successfully completed Skill Based Courses shall be recorded in the grade sheet.
- If a student has not successfully completed the skill based courses during the semesters V, VI and VII, then the same shall not be recorded in the grade sheet.
- If a student earns 2 credits in Semester V and then enrolls for another 2 credits in Semester VI, then he / she is permitted to drop one Professional elective/ open elective course in Semester VI. Further, if the student earns 4 credits upto Semester VI and enrols for another 2 credits in Semester VII, then he/she is permitted to drop an additional professional elective/open elective course in the VII semester.

If the student has enrolled for skill based courses but has not successfully earned 4 or 6 credits and also dropped 1 or 2 PE/OE courses in anticipation of pass, then he/she has to enroll the PE/OE (as the case may be) to meet the total credit requirements to earn the degree.

Method for computation of Grade point of dropped PE / OE courses

The method of Computation of Grade point for the dropped PE/OE courses is given below:

1. If a student has successfully completed two Skill Based Courses, then the computation of Grade point for one PE/OE course dropped in lieu of those two skill based courses is as follows.

   Grade point = (2 credits * higher grade point obtained + 1 credit * lower grade point obtained) / 3 credits.

   For example, for two courses of two credit each, if the grades obtained are,
   Course 1– C grade – 5 points
   Course 2– O grade – 10 points

   Then, the grade point of the dropped course for the calculation of CGPA is obtained as: (1x5 + 2x10)/3 = 8.33.

   One PE/OE course shall be dropped for 3 credits with grade point computed as above.

2. If a student has successfully completed three Skill Based Courses, then the computation of Grade point for dropping two PE/OE in lieu of those three skill based courses is as follows.

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

For three courses of two credit each

Computation of Grade point of each of the two dropped PE/OE courses for the calculation of CGPA = Average grade point of three skill based courses.

Two PE/OE courses shall be dropped of 3 credits each, with grade point computed as above.

5 DURATION OF THE PROGRAMME

5.1 A student is ordinarily expected to complete the B.E. / B.Tech. Programme in 8 semesters (for HSC students) and six semesters (for Lateral Entry students) but in any case not more than 14 Semesters for HSC (or equivalent) students and not more than 12 semesters for Lateral Entry students.

5.1.1 A student is ordinarily expected to complete the B.E. Mechanical Engineering (Sandwich) Programme in 10 semesters (five academic years) but in any case not more than 18 Semesters for HSC (or equivalent) students.

5.2 Each semester shall normally consist of 75 working days or 540 periods of 50 minutes each. The Head of the Institution shall ensure that every teacher imparts instruction as per the number of periods specified in the syllabus and that the teacher teaches the full content of the specified syllabus for the course being taught.

5.3 The Head of the Institution may conduct additional classes for improvement, special coaching, conduct of model test etc., over and above the specified periods. But for the purpose of calculation of attendance requirement for writing the end semester examinations (as per clause 6) by the students, following method shall be used.

$$\text{Percentage of Attendance} = \frac{\text{Total no. of periods attended in all the courses per semester}}{\text{(No. of periods / week as prescribed in the curriculum) taken together for all courses of the semester} \times 15} \times 100$$

The University Examination will normally follow immediately after the last working day of the semester as per the academic schedule prescribed from time to time.

5.4 The total period for completion of the programme reckoned from the commencement of the first semester to which the student was admitted shall not exceed the maximum period specified in clause 5.1 irrespective of the period of break of study (vide clause 18) in order that he/she may be eligible for the award of the degree (vide clause 16).

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

6. COURSE REGISTRATION

6.1 The institution is responsible for registration of the courses that each student is proposing to undergo in the ensuing semester. Each student has to register for all courses to be undergone in the curriculum of a particular semester (with the facility to drop courses to a maximum of 6 credits (vide clause 6.2)). The courses dropped in earlier semesters can be registered in the subsequent semesters when offered.

Amendment of Clause 6.1

The registration details of the student shall be approved by the Head of the Institution and forwarded to the Controller of Examinations. This registration is for undergoing the course as well as for writing the End Semester Examinations.

The courses that a student registers in a particular semester may include

i. Courses of the current semester.

ii. Courses dropped in the lower semesters

The maximum number of credits that can be registered in a semester is 36. However, this does not include the number of Re-appearance (U) and Withdrawal (WD) courses registered by the student for the appearance of Examination.

6.2 Flexibility to Add or Drop courses

6.2.1 A student has to earn the total number of credits specified in the curriculum of the respective Programme of study in order to be eligible to obtain the degree.

6.2.2 From the second to final semesters, the student has the option of dropping existing courses in a semester during registration. Total number of credits of such courses shall not exceed 6 per semester. The student is permitted to drop the course(s) within 30 days of the commencement of the academic schedule.

6.2.3 From the V to VIII semesters, the student has the option of registering for additional courses in a semester. With regard to enrolling for B.E. / B. Tech. (Hons) or B.E. / B. Tech. Minor

Insertion of New Clause 6.2.3

The total number of credits that a student can add in a semester is limited to 6, subject to a maximum of 2 courses. Maximum number of credits enrolled in a semester (Honours and Minor) shall not exceed 36. The online courses registered for B.E. / B. Tech. (Hons.) and B.E. / B. Tech. minor shall be over and above this 36 credits.

6.3 Choice of Professional Elective Courses

Insertion of New Clause 6.3

The professional Elective Courses are listed in the Curriculum in Table format as verticals (Specialisation groups). A student can choose all the Professional Elective Courses either from one of the verticals or a combination of courses from all verticals in a semester. However, students irrespective of enrolling for additional

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

courses for B.E. / B. Tech. (Hons.) are not permitted to choose more than one course from a row. Students are permitted to enroll more than one elective course from the same vertical in a semester. In the subsequent semesters students are permitted to enroll one more course in a row, provided if he/she has cleared the earlier course of the same row. For a professional elective course and open elective course, minimum number of students enrolment permitted shall be 10. However, the minimum number is not applicable for students enrolling B.E. / B. Tech. (Hons) and B.E. / B. Tech. Minor. For the offer of each professional elective at least two choices shall be offered.

7. ATTENDANCE REQUIREMENTS FOR COMPLETION OF THE SEMESTER

7.1 A student who has fulfilled the following conditions shall be deemed to have satisfied the requirements for completion of a semester.

Ideally every student is expected to attend all classes of all the courses and secure 100% attendance. However, in order to give provision for certain unavoidable reasons such as medical / participation in sports, the student is expected to attend at least 75% of the classes.

Therefore, he/she shall **secure not less than 75%** (after rounding off to the nearest integer) of overall attendance as calculated as per clause 5.3.

7.2 However, a student who secures overall attendance between 65% and 74% in the current semester due to medical reasons (prolonged hospitalization / accident / specific illness) / participation in sports events may be permitted to appear for the current semester examinations, subject to the condition that the student shall submit the medical certificate / sports participation certificate attested by the Head of the Institution. The same shall be forwarded to the Controller of Examinations for record purposes.

7.3 Students who **secure less than 65% overall attendance** shall not be permitted to write the University examination at the end of the semester and not permitted to move to the next semester. They are required to repeat the incomplete semester in the next academic year, as per the norms prescribed.

8. CLASS ADVISOR

There shall be a class advisor for each class. The class advisor will be one among the course-instructors of the class. He / She will be appointed by the HOD of the department concerned. The class advisor is the ex-officio member and the Convener of the class committee. The responsibilities for the class advisor shall be:

- To act as the channel of communication between the HOD and the students of the respective class.

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

- To collect and maintain various statistical details of students.
- To help the chairperson of the class committee in planning and conduct of the class committee meetings.
- To monitor the academic performance of the students including attendance and to inform the class committee.
- To attend to the students' welfare activities like awards, medals, scholarships and industrial visits.

9. CLASS COMMITTEE

9.1. Every class shall have a class committee consisting of teachers of the class concerned, student representatives and a chairperson, who is not teaching the class. It is like the 'Quality Circle' (more commonly used in industries) with the overall goal of improving the teaching- learning process. The functions of the class committee include:

- Solving problems experienced by students in the class room and in the laboratories.
- Clarifying the regulations of the degree programme and the details of rules therein particularly (clause 5 and 7).
- Informing the student representatives, the academic schedule including the dates of assessments and the syllabus coverage for each assessment.
- Informing the student representatives the details of Regulations regarding weightage used for each assessment. In the case of practical courses (laboratory / drawing / project work / seminar etc.) the breakup of marks for each experiment / exercise / module of work, should be clearly discussed in the class committee meeting and informed to the students.
- Analyzing the performance of the students of the class after each test and finding the ways and means of solving problems, if any.
- Identifying the slow-learners, if any, and requesting the teachers concerned to provide some additional help or guidance or coaching to such students.

9.2 The class committee for a class under a particular branch is normally constituted by the Head of the Department. However, if the students of different branches are mixed in a class (like the first semester which is generally common to all branches), the class committee is to be constituted by the Head of the Institution.

9.3 The class committee shall be constituted within the first week of each semester.

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

9.4 At least 4 student representatives (usually 2 boys and 2 girls) shall be included in the class committee, covering all the elective courses.

9.5 The chairperson of the class committee may invite the class adviser(s) and the Head of the Department to the class committee meeting.

9.6 The Head of the Institution may participate in any class committee meeting of the institution.

9.7 The chairperson is required to prepare the minutes of every meeting, submit the same to the Head of the Institution within two days of the meeting and arrange to circulate it among the students and teachers concerned. If there are some points in the minutes requiring action by the management, the same shall be brought to the notice of the Management by the Head of the Institution.

9.8 The first meeting of the class committee shall be held within one week from the date of commencement of the semester, in order to inform the students about the nature and weightage of assessments within the framework of the Regulations. Two or three subsequent meetings may be held in a semester at suitable intervals. **The Class Committee Chairperson shall display the cumulative attendance particulars of each student on the Notice Board at the end of every such meeting to enable the students to know their attendance details to satisfy the clause 6 of this Regulation.** During these meetings the student members representing the entire class, shall meaningfully interact and express the opinions and suggestions of the other students of the class in order to improve the effectiveness of the teaching-learning process.

10. COURSE COMMITTEE FOR COMMON COURSES

Each common theory course offered to more than one discipline or group, shall have a "Course Committee" comprising all the teachers teaching the common course with one of them nominated as the course coordinator. The nomination of the course coordinator shall be made by the Head of the Department / Head of the Institution depending upon whether all the teachers teaching the common course belong to a single department or to several departments. The 'Course Committee' shall meet in order to arrive at a common scheme of evaluation for the test and shall ensure a uniform evaluation of the tests. Wherever feasible, the Course Committee may also prepare a common question paper for the internal assessment test(s).

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

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

11. SYSTEM OF EXAMINATION

11.1 Performance in each course of study shall be evaluated based on (i) continuous internal assessment throughout the semester and (ii) University examination at the end of the semester.

11.2 Each course, both theory and practical (including project work & viva voce examinations) shall be evaluated for a maximum of 100 marks.

11.2.1 For all theory courses, the continuous internal assessment will carry **40 marks** while the End Semester University examination will carry **60 marks.**

11.2.2 For all theory courses with laboratory component, the continuous internal assessment will carry **50 marks** while the End Semester University examination will carry **50 marks.**

11.2.3 For all laboratory courses, the continuous internal assessment will carry **60 marks** while the End Semester University examination will carry **40 marks.**

11.2.4 The continuous internal assessment for the project work will carry **60 marks** while the End Semester University examination will carry **40 marks.**

Amendment of Clause 11.2.4

11.3 Industrial Training and Seminar shall carry 100 marks and shall be evaluated through internal assessment only.

11.4 The University examination (theory and practical) of 3 hours duration shall ordinarily be conducted between October and December during the odd semesters and between April and June during the even semesters.

11.5 The University examination for Project Work shall consist of evaluation of the final report submitted by the student or students of the project group (of not exceeding 4 students) by an external examiner and an internal examiner, followed by a viva-voce examination conducted separately for each student by a committee consisting of the external examiner, the supervisor of the project group and an internal examiner.

11.6 For the University examination of practical courses including Project Work, the internal and external examiners shall be appointed by the Controller of Examinations.

12. PROCEDURE FOR AWARDING MARKS FOR INTERNAL ASSESSMENT

12.1 THEORY COURSES

Amendment of Clause 12.1

Two assessments each carrying 100 marks shall be conducted during the semester by the Department / College concerned. The total marks obtained in all assessments put together out of 200, shall be proportionately reduced for 40 marks and rounded to the nearest integer (This also implies equal weightage to the two assessments).

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

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

Assessment I (100 Marks)		Assessment II (100 Marks)		
Individual Assignment / Case Study/ Seminar /Mini Project / any other experiential Learning	Written Test	Individual Assignment / Case Study / Seminar /Mini Project / any other experiential Learning	Written Test	**Total** Internal Assessment
40	60	40	60	200*

*The weighted average shall be converted into 40 marks for internal Assessment.

A minimum of two internal assessments will be conducted as a part of continuous assessment. Each internal assessment is to be conducted for 100 marks and will have to be distributed in two parts viz., Individual Assignment / Case study / Seminar / Mini project / any other experiential learning and Test with each having a weightage of 40% and 60% respectively. The tests shall be in written mode. The total internal assessment marks of 200 shall be converted into a maximum of 40 marks and rounded to the nearest integer.

12.2 **LABORATORY COURSES**

The maximum marks for Internal Assessment shall be 60 marks in case of practical courses. Every practical exercise / experiment shall be evaluated based on conduct of experiment / exercise and records to be maintained. There shall be at least one test. The criteria for arriving at the Internal Assessment marks of 60 is as follows: 75 marks shall be awarded for successful completion of all the prescribed experiments done in the Laboratory and 25 marks for the test. The total mark shall be converted into a maximum of 60 marks and rounded to the nearest integer.

Internal Assessment (100 Marks)*	
Evaluation of Laboratory Observation, Record	Test
75	25

* Internal assessment marks shall be converted into 60 marks

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

12.3 **THEORY COURSES WITH LABORATORY COMPONENT / LABORATORY COURSES WITH THEORY COMPONENT**

Amendment of Clause 12.3

Weightage of internal assessment and end semester examination marks will be 50% each. The distribution of marks for the theory and laboratory components in the internal assessments and end semester examination for different types of courses are provided in the table.

L	T	P	C	Internal Assessment 1	Internal Assessment 2	End Semester Examination
1	0	4	3	Lab (25%)	Theory (25%)	Lab only (50%)
1	0	2	2	Lab (25%)	Theory (25%)	Lab only (50%)
2	0	2	3	Theory (25%)	Lab (25%)	Theory (25%) Lab (25%)
3	0	2	4	Theory (25%)	Lab (25%)	Theory (35%) Lab (15%)
2	0	4	4	Theory (25%)	Laboratory (25%)	Theory (15%) Lab(35%)

The procedure for the conduct of internal assessments for theory and laboratory components shall be as per the clause 12.1 and 12.2 respectively.

*The weighted average shall be converted into 50 marks for internal Assessment.

12.4 **PROJECT WORK / INTERNSHIP**

Amendment of Clause 12.4

The student shall register for Project Work in final semester. Project work may be allotted to a single student or to a group of students not exceeding 4 per group. The student is also permitted to undergo a semester long internship in an industry / academic / research institution.

12.4.1 Project Work shall be carried out under the supervision of a "qualified teacher" in the Department concerned. In this context "qualified teacher" means the faculty member possessing (i) PG degree or (ii) Ph.D. degree.

12.4.2 The Project Work carried out in industry / academic/research institution shall be jointly supervised. The Project Work shall be jointly supervised by a supervisor of the department and an expert from the organization as a joint supervisor and the student shall be instructed to meet the supervisor periodically and to attend the review committee meetings for evaluating the progress. The review meetings, if necessary, may also be arranged in online mode with prior approval from the Head of the Institution and suitable record of the meetings shall be maintained.

Amendment of Clause 12.4.2

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

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

12.4.3 The Head of the Institutions shall constitute a review committee for Project Work for each programme. The review committee consists of supervisor, an expert from the Department and a project coordinator from the Department. If the project coordinator/expert member happens to be the supervisor, then an alternate member shall be nominated. In the case of Industrial Project / Internship, the review committee shall consist of the supervisor, the coordinator from industry and the project coordinator from the Department.

Amendment of Clause 12.4.3

There shall be three reviews conducted by the review committee. The student shall make presentation on the progress made by him / her before the committee. The total marks obtained in the three reviews shall be **reduced for 60 marks** and rounded to the nearest integer (as per the scheme given in 12.4.4).

12.4.4 The project report shall carry a maximum of 10 marks. The project report shall be submitted as per the approved guidelines as given by the Director, Centre for Academic Courses. Same marks shall be awarded to every student within the project group for the project report. The viva-voce examination shall carry 30 marks. Marks awarded to each student of the project group is based on the individual performance in the viva-voce examination.

Amendment of Clause 12.4.4

Continuous Assessment (60 Marks)			**End Semester Examinations (40 Marks)**			
Re view I	**Re view II**	**Re view III**	**Project Report**	**Viva-Voce Examination**		
20	20	20	External	Internal	External	Supervisor
			10	10	10	10

In the case of industrial projects, the marks allotted for supervisor will be shared equally by the supervisor from the Department and coordinator from Industry.

12.4.5 The last date for submission of the project report is on the last working day of the semester. If a student fails to submit the project report on or before the specified deadline, it will be considered as fail in the Project Work and the student shall re-register for the same in the subsequent semester.

Amendment of Clause 12.4.5

12.4.6 Students shall also undertake a start-up activity for the development of products as part of project work. If the outcome of a start-up is a fully developed product and whose concept is tested and validated, then it shall be considered in lieu of the project work. Such students shall submit a start up report, which includes the concepts and process flow of the developed product, publications and patents, if any.

Insertion of New Clause 12.4.6

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

The evaluation of the start-up report is as per the clause 12.4.4.

12.5 **OTHER EMPLOYABILITY ENHANCEMENT COURSES**

(a) The Seminar / Case Study / Mini Project course is to be considered as purely INTERNAL (with 100% internal marks only). Every student is expected to present a minimum of 2 seminars per semester before the evaluation committee and for each seminar, marks can be equally apportioned. The three member committee appointed by the Head of the Institution, consisting of the course coordinator and two experts from the Department, will evaluate the seminar and at the end of the semester, the marks shall be consolidated and taken as the final mark. The evaluation shall be based on the seminar paper (40%), presentation (40%) and response to the questions asked during presentation (20%).

(b) The Industrial / Practical Training, Summer Project, Internship, shall carry 100 marks and shall be evaluated through internal assessment only. At the end of Industrial / Practical Training / Internship / Summer Project, the student shall submit an attendance certificate from the organization where he / she has undergone training and a brief report. The evaluation will be made based on this report and a viva-voce Examination, conducted internally by a three member Departmental Committee constituted by the Head of the Institution consisting of the course coordinator and two experts from the Department. The certificates (issued by the organization) submitted by the students shall be attached to the mark list sent by the Head of the Institution to the Controller of Examinations.

(c) For all the courses under Employability Enhancement Courses Category, except the Project Work, the evaluation shall be done with 100% internal marks and as per the procedure described in clause 12.5 (a) / (b).

12.6 **ASSESSMENT FOR VALUE ADDED COURSE**

Amendment of Clause 12.6

The value added course shall carry 100 marks and shall be evaluated through **continuous assessments only**. Two Assessments shall be conducted during the semester by the Department concerned. The total marks obtained in the tests shall be reduced to 100 marks and rounded to the nearest integer. A committee consisting of the Head of the Department, staff handling the course and a senior faculty member nominated by the Head of the Institution shall do the evaluation process. The list of students along with the marks and the grades earned shall be forwarded to the Controller of Examinations for appropriate action at least one month before the commencement of End Semester Examinations. The grades earned by the

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

students for Value Added Courses will be recorded in the Grade Sheet, however the same shall not be considered for the computation of CGPA.

12.7 Omitted

12.8. **Internal marks approved by the Head of the Institution shall be displayed by the respective HODs within 5 days from the last working day.**

12.9 **Attendance Record**

Every teacher is required to maintain an 'ATTENDANCE AND ASSESSMENT RECORD', which consists of attendance marked in each lecture or practical or project work class, the test marks and the record of class work (topic covered), separately for each course. This should be submitted to the Head of the Department periodically (at least three times in a semester) for checking the syllabus coverage and the records of test marks and attendance. The Head of the Department will put his/her signature and date after due verification. At the end of the semester, the record should be verified by the Head of the Institution who will keep this document in safe custody (for five years). The University or any inspection team appointed by the University may verify the records of attendance and assessment of both current and previous semesters.

12.10 **Conduct of Academic Audit by every Institution**

Every educational institution shall strive for a better performance of the students by conducting the internal assessments as mentioned in Clause 12.

In order to ensure the above, Academic Audit is to be done for every course taught during the semester. For the internal assessments conducted for each course as per details provided in Clause 12, the academic records shall be maintained in the form of documentation for the individual assignments / case study report / report of mini project submitted by each student and assessment test question paper and answer script. Report of industrial training / internship shall also be maintained, if applicable. For laboratory courses students' record shall be maintained. Further, the attendance of all students shall be maintained as a record.

The Head of the Institution shall arrange to conduct the Academic Audit for every course in a semester by forming the respective committees with an external course expert as one of the members drawn from a Technical institution of repute near the institute.

The University or any inspection team appointed by the University may verify the records of Academic Audit report of the courses of both current and previous semesters, as and when required.

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

13. REQUIREMENTS FOR APPEARING FOR UNIVERSITY EXAMINATIONS

A student shall normally be permitted to appear for the University Examinations for all the courses registered in the current semester (vide clause 6) if he/she has satisfied the semester completion requirements (as per clause 7).

Further, examination registration by a student is mandatory for all the courses in the current semester and all arrear(s) course(s) for the University examinations failing which, the student will not be permitted to move to the higher semester.

A student who has already appeared for any course in a semester and passed the examination is not entitled to reappear in the same subject for improvement of grades

14. PASSING REQUIREMENTS

14.1 A student who secures not less than 50% of total marks prescribed for the course [Internal Assessment + End semester University Examinations] with a minimum of 45% of the marks prescribed for the end-semester University Examination, shall be declared to have passed the course and acquired the relevant number of credits. This is applicable for both theory and laboratory courses (including project work).

14.2 If a student fails to secure a pass in a theory course / laboratory course (except electives), the student shall register and appear only for the end semester examination in the subsequent semester. In such case, the internal assessment marks obtained by the student in the first appearance shall be retained and considered valid for all subsequent attempts till the student secures a pass. However, from the third attempt onwards if a student fails to obtain pass marks (IA + End Semester Examination) as per clause 14.1, then the student shall be declared to have passed the examination if he/she secures a minimum of 50% marks prescribed for the University end semester examinations alone.

14.3 If the course, in which the student has failed, is a Professional Elective or an Open Elective course, the student may be permitted to complete the same course. In such case, the internal assessment marks obtained by the student in the first appearance shall be retained and considered valid for all subsequent attempts till the candidate secures a pass. However, from the third attempt onwards if a candidate fails to obtain pass marks (IA + End Semester Examination) as per clause 14.1, then the candidate shall be declared to have passed the examination if he/she secures a minimum of 50% marks prescribed for the University end semester examinations alone.

If any other Professional Elective or Open Elective course is opted by the student,

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

the previous registration is cancelled and henceforth it is to be considered as a new Professional Elective or Open Elective course. The student has to register and attend the classes, earn the continuous assessment marks, fulfil the attendance requirements as per clause 7 and appear for the end semester examination.

14.4 If a student has submitted the project report but absent in the end semester examination of project work, the student is deemed to be failed. In this case and also if a student attends and fails in the End semester examination of Project work of B.E. / B.Tech, he/she shall attend end semester examination again within 60 days from the date of declaration of the results. The subsequent viva-voce examination will be considered as reappearance with payment of exam fee. In case, the student fails in the subsequent viva-voce examination also, the student shall redo the course again, when offered next.

Amendment of Clause 14.4

14.5 The passing requirement for the courses which are assessed only through purely internal assessments (EEC courses except Project Work and laboratory), is 50% of the internal assessment (continuous assessment) marks only.

14.6 A student can apply for revaluation of the student's semester examination answer paper in a theory course, as per the guidelines of the COE on payment of a prescribed fee along with prescribed application to the COE through the Head of the Institution. The COE will arrange for the revaluation and the results will be intimated to the student concerned through the Head of the Institution. Revaluation is not permitted for laboratory course and EEC courses.

15. AWARD OF LETTER GRADES

15.1 The award of letter grades will be decided using relative grading principle except Laboratory Courses and Project Work. The performance of a student will be reported using letter grades, each carrying certain points as detailed below:

Amendment of Clause 15.1

Letter Grade	Grade Points*
O (Outstanding)	10
A + (Excellent)	9
A (Very Good)	8
B + (Good)	7
B (Average)	6
C (Satisfactory)	5
U (Re-appearance)	0
SA (Shortage of Attendance)	0
WD (Withdrawal)	0

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

A student is deemed to have passed and acquired the corresponding credits in a particular course if he/she obtains any one of the following grades: "O", "A+", "A", "B+","B", "C".

'SA' denotes shortage of attendance (as per clause 7.3) and hence prevented from writing the end semester examinations. 'SA' will appear only in the result sheet.

"U" denotes that the student has failed to pass in that course. "WD" denotes withdrawal from the exam for the particular course. The grades U and W will figure both in the Grade Sheet as well as in the Result Sheet. In both cases, the student has to appear for the End Semester Examinations as per the Regulations.

If the grade U is given to Theory Courses/ Laboratory Courses it is not required to satisfy the attendance requirements (vide clause 7), but has to appear for the end semester examination and fulfil the norms specified in clause 14 to earn a pass in the respective courses.

If the grade U is given to EEC course (except Project Work), which are evaluated only through internal assessment, the student shall register for the course again in the subsequent semester, fulfil the norms as specified in clause 14 to earn pass in the course. However, attendance requirement need not be satisfied.

15.1.1 **Relative Grading**

Insertion of New Clause 15.1.1

For those students who have passed the course (theory course / laboratory integrated courses / theory integrated courses / all other EEC except laboratory course / Project Work Courses), the relative grading shall be done. The marks of those students who have passed only shall be inputted in the software developed for relative grading. The evolved relative grading method normalizes the results data using the BOX-COX transformation method and computes the grade range for each course separately and awards the grade to each student. (theory course / laboratory integrated courses / theory integrated courses and all other EEC Courses). If the students' strength is greater than 30, the relative grading method shall be adopted.

15.1.2 **Absolute Grading**

Insertion of New Clause 15.1.2

- In all the courses, if the number of students who have passed the course is less than or equal to 30 then absolute grading shall be followed with the grade range as specified in the Table.
- For the Project Work / Internship and Laboratory Courses, absolute grading procedure shall be followed as given in the Table below irrespective of the number of students who have passed the course.

GMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

Table – Grade range for absolute grading

O	A+	A	B+	B	C	*U*
91 - 100	81 - 90	71 - 80	61 - 70	56 - 60	50 – 55	< 50

15.2 For the Co-curricular activities such as National Cadet Corps (NCC)/ National Service Scheme (NSS) / NSO / YRC / Science club / Literary Club/ Fine Arts Club, a 'completed' remark will appear in the Grade Sheet on successful completion of the same. Every student shall put in a minimum of 75% attendance in the training and attend the camp or events of the clubs compulsorily. The training and camp or club events shall be completed during the first year of the programme. However, for valid reasons, the Head of the Institution may permit a student to complete this requirement in the subsequent years.

Successful completion of any one of the above co-curricular activities is compulsory for the award of degree.

15.3 The grades O, A+, A, B+, B, C obtained for the one/two credit course (not the part of curriculum) shall figure in the Grade Sheet under the title **'Value Added Courses/Internship/Industrial training'**. The courses for which the grades obtained are RA, SA **will not figure in the Grade Sheet.**

15.4 For the students who complete the Mandatory Course satisfying attendance requirement, the title of the Mandatory Course will be mentioned in the Grade Sheet.

Amendment of Clause 15.4

15.5 **GRADE SHEET**

Amendment of Clause 15.5

After results are declared, Grade Sheets will be issued to each student which will contain the following details:

- The college in which the student has studied
- List of courses studied for Hons., minor and any other additional courses in which the student has passed with the grades under the title additional courses.
- The Grade Point Average (GPA) for the semester considering only the courses of curriculum (not the additional courses) and
- The Cumulative Grade Point Average (CGPA) of all courses registered from first semester onwards considering only the courses of curriculum (not the additional courses). However, for the students who have successfully completed the requirements of B.E. / B. Tech. (Hons) and B.E. / B.Tech. Minor vide Clause 4.10, grades scored in the six additional courses shall be taken into account for the computation of CGPA.

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

During each semester, the list of curricular courses (not the additional courses) registered and the grades scored in each course are used to compute the Grade Point Average (GPA). GPA is the ratio of the sum of the products of the number of credits of curricular courses (not the additional courses) registered and the grade points corresponding to the grades scored in those courses, taken for all the courses, to the sum of the number of credits of all the courses in the semester. U grades will be excluded for calculating GPA and CGPA.

$$\text{GPA / CGPA} = \frac{\sum_{i=1}^{n} C_i \, GP_i}{\sum_{i=1}^{n} C_i}$$

where C_i is the number of Credits assigned to the course

GP_i is the point corresponding to the grade obtained for each course

n is number of all courses successfully cleared during the particular semester in the case of GPA and during all the semesters in the case of CGPA.

15.5.1 If a student studies more number of professional and open electives than required as per the student's programme curriculum, the calculation of final CGPA shall be as per 4.10.6 and 4.10.7. **Insertion of New Clause 15.5.1**

15.5.2 If a student successfully completes all the requirements of the programme and also meets the requirements of B.E. / B. Tech. (Hons) or B.E. / B. Tech. Minor but desires not to opt for the additional qualification, then he/she has to submit a declaration with regard to the same 30 days before the completion of VIII semester. **Insertion of New Claus 15.5.2**

15.5.3 In the consolidated grade sheet the CGPA earned shall be converted into percentage of marks as follows: **Insertion of New Clause 15.5.3**

Percentage of Marks = CGPA × 10.

16 ELIGIBILITY FOR THE AWARD OF THE DEGREE

16.1 A student shall be declared to be eligible for the award of the B.E. / B.Tech. Degree provided the student has

i. Successfully gained the required number of total credits as specified in the curriculum corresponding to the student's programme within the stipulated time.

ii. Successfully completed the course requirements, appeared for the End -

Dr. K. MANADEVAN, B.E., M.E., Ph.D.
PRINCIPAL
GMS COLLEGE OF ENGINEERING,

Semester examinations and passed all the subjects within the period as prescribed in clause 5.1 and 5.1.1.

iii. Successfully passed any additional courses prescribed by the Director, Centre for Academic Courses whenever the student is readmitted under Regulations R-2021 from the earlier Regulations.

iv. Successfully completed the NCC / NSS / NSO / YRC / Science Club / Literature Club / Fine Arts Club requirements.

v. No disciplinary action pending against the student.

vi. The award of Degree must have been approved by the Syndicate of the University.

16.2 CLASSIFICATION OF THE DEGREE AWARDED

16.2.1 FIRST CLASS WITH DISTINCTION:

Amendment of Clause 16.2.1

A student who satisfies the following conditions shall be declared to have passed the examination in **First class with Distinction:**

- Should have passed the examination in all the courses of all the eight semesters (10 Semesters in case of Mechanical (Sandwich) and 6 semesters in the case of Lateral Entry) in the student's First Appearance within **five** years (Six years in the case of Mechanical (Sandwich) and Four years in the case of Lateral Entry). Withdrawal from examination (vide Clause 17) will not be considered as an appearance.
- Should have secured a CGPA of not less than **8.50**.
- One year authorized break of study (if availed of) is included in the five years (Six years in the case of Mechanical (Sandwich) and four years in the case of lateral entry) for award of First class with Distinction.
- Should not have been prevented from writing end semester examination in any of the courses of the Curriculum making up the total credit requirement.
- A student who satisfies norms given in clause 4.10 becomes eligible for classification of the degree with B.E./B.Tech. (Hons) and B.E./B.Tech. minor.

Details are provided in Table

Degree (i)	Duration of programme (ii)	Duration permitted (iii)	Additional credits above the requirement of curriculum (iv)	CGPA (v)	Pass in (vi)	Break of study (vii)	Prevention to write end semester examination	Withdrawal from writing end semester examination (viii)

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

B.E./ B.Tech. (Regular)	4 years	5 years	-	8.50	First attempt	One year authorised break of study included in the Duration permitted (iii)	Not permitted	Will not be considered as an attempt
B.E./ B.Tech. (sandwich)	5 years	6 years	-	8.50	First attempt	One year authorised break of study included in the Duration permitted (iii)	Not permitted	Will not be considered as an attempt
B.E./ B.Tech. Lateral Entry	3 years	4 years	-	8.50	First attempt	One year authorised break of study included in the Duration permitted (iii)	Not permitted	Will not be considered as an attempt
B.E./ B.Tech. (Hons)	3/4/5 years (Lateral entry, Regular, Sandwich respectively)	4/5/6 years (Lateral entry, Regular, Sandwich respectively)	18 credits from more than one verticals of the same programme	8.50	First attempt	One year authorised break of study included in the Duration permitted (iii)	Not permitted	Will not be considered as an attempt
B.E./ B.Tech. minor	3/4/5 years (Lateral entry, Regular, Sandwich	4/5/6 years (Lateral entry, Regular,	18 credits from any one vertical of the	8.50	First attempt	One year authorised break of study included	Not permitted	Will not be considered as an attempt

Dr.K.MANADEVAN,B.E.,M.E.,Ph.D.
PRINCIPAL
CMS COLLEGE OF ENGINEERING,

	respectiv ely)	Sand wich respe ctively)	other progra mme			in the Duration permitte d (iii)		

16.2.2 **FIRST CLASS:**

Amendment of Clause 16.2.2

A student who satisfies the following conditions shall be declared to have passed the examination in **First class:**

- Should have passed the examination in all the courses of all eight semesters (10 Semesters in case of Mechanical (Sandwich) and 6 semesters in the case of Lateral Entry) **within five years**. (Six years in case of Mechanical (Sandwich) and Four years in the case of Lateral Entry).
- One year authorized break of study (if availed of) or prevention from writing the End Semester examination due to lack of attendance (if applicable) is included in the duration of five years (Six years in case of Mechanical (Sandwich) and four years in the case of lateral entry) for award of First class.
- Should have secured a CGPA of not less than **6.50.**
- A student who satisfies norms given in clause 4.10 becomes eligible for classification of the degree with B.E./B.Tech. (Honours) and B.E./B.Tech. minor.

Details are provided in Table

Degree (i)	**Duration of programme (ii)**	**Duration permitted (iii)**	**Additional credits (iv)**	**CGPA (v)**	**Pass in (vi)**	**Break of study (vii)**	**Prevention to write end semester examination**	**Withdrawal from writing end semester examination (viii)**
B.E./ B.Tech. (Regular)	4 years	5 years	-	6.50	-	One year authorised break of study included in the Duration permitted (iii)	Included in the Duration permitted (iii)	-

Dr.K.MANADEVAN,B.E.,M.E.,Ph.D.
PRINCIPAL
CMS COLLEGE OF ENGINEERING,

B.E./ B.Tech. (sandwich)	5 years	6 years	-	6.50	-	One year authorised break of study included in the Duration permitted (iii)	Included in the Duration permitted (iii)	-
B.E./ B.Tech. Lateral Entry	3 years	4 years	-	6.50	-	One year authorised break of study included in the Duration permitted (iii)	Included in the Duration permitted (iii)	-
B.E./ B.Tech. (Hons)	3/4/5 years (Lateral entry, Regular, Sandwich respectively)	4/5/6 years (Lateral entry, Regular, Sandwich respectively)	18 credits from more than one verticals of the same programme	7.50	First attempt	One year authorised break of study included in the Duration permitted (iii)	Not permitted	Will not be considered as an attempt
B.E./ B.Tech. minor	3/4/5 years (Lateral entry, Regular, Sandwich respectively)	4/5/6 years (Lateral entry, Regular, Sandwich respectively)	18 credits from any one vertical of the other programme	6.50	-	One year authorised break of study included in the Duration permitted (iii)	Included in the Duration permitted (iii)	-

16.2.3 Students who pursue B.E./B.Tech. in Regular mode or lateral entry mode or B.E./B.Tech. minor in specialisation of another discipline and who are not covered in clauses 16.2.1 and 16.2.2 and who qualify for the award of the degree (vide Clause 16.1) shall be declared to have passed the examination in **Second Class**.

Amendment of Clause 16.2.3

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

16.2.4 A student who is absent in the End Semester Examination in a course / project work after having registered for the same shall be considered to have appeared in that examination (except approved withdrawal from end semester examinations as per clause 15) for the purpose of classification.

Insertion of New Clause 16.2.4

16.2.5 Student earned additional 18 credits as per Clause 4.10 (i) and (ii) but does not satisfy the conditions mentioned in 16.2.1 or 16.2.2 shall not be awarded B.E./B.Tech.(Hons.) In such case if the student becomes eligible for First Class, while computing CGPA with the Professional Elective / Open Elective courses with higher grades the student shall be awarded B.E. / B.Tech. in First Class only.

Amendment of Clause 16.2.4

16.3 A student who is absent in end semester examination in a course / project work after having registered for the same shall be considered to have appeared in that examination for the purpose of classification. (subject to clause 17).

16.4 **Photocopy / Revaluation**

A student can apply for photocopy of his/her semester examination answer paper in a theory course, as per the guidelines of the COE, on payment of a prescribed fee through proper application to the Controller of Examinations through the Head of the Institutions. The answer script is to be valued and justified by a faculty member, who has handled the subject and recommend for revaluation with the breakup of marks for each question. Based on the recommendation, the student can register for the revaluation through proper application to the Controller of Examinations. The Controller of Examinations will arrange for the revaluation and the results will be intimated to the student concerned through the Head of the Institutions. Revaluation is not permitted for practical courses and EEC courses.

A student can apply for revaluation of answer scripts for not exceeding 5 subjects at a time.

16.5 **Review**

Students not satisfied with Revaluation can apply for Review of his/ her examination answer paper in a theory course, within the prescribed date on payment of a prescribed fee through proper application to the Controller of Examinations through the Head of the Institution.

Students applying for Revaluation only are eligible to apply for Review.

17. PROVISION FOR WITHDRAWAL FROM END-SEMESTER EXAMINATION

17.1 A student may, for valid reasons, (medically unfit / unexpected family situations / sports approved by the Chairman, Sports Board and the HOD) be granted permission to withdraw from appearing for the end semester examination

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

in any course or courses in **ANY ONE** of the semester examinations during the entire duration of the degree programme. The application shall be sent to the COE through the Head of the Institutions with required documents.

17.2 Withdrawal application is valid if the student is otherwise eligible to write the examination (Clause 7) and if it is made within TEN days after the date of the examination(s) in that course or courses and recommended by the Head of the Institution and approved by the Controller of Examinations. For a student to withdraw from a course / courses, he/she should have registered for the course, fulfilled the attendance requirements (vide clause 7) and earned continuous assessment marks.

17.2.1 Notwithstanding the requirement of mandatory 10 days, applications for withdrawal for special cases under extraordinary conditions will be considered on the merit of the case.

17.3 In case of withdrawal from a course / courses, the courses will figure both in the Grade Sheet as well as in the Result Sheet. However, withdrawal shall not be considered as an appearance for the eligibility of a student for First Class with Distinction.

17.4 If a student withdraws from writing end semester examinations for a course or courses, he/she shall register for the same in the subsequent semester and write the end semester examination(s).

17.5 If a student applies for withdrawal from Project Work, he/she will be permitted for the withdrawal only if the student has submitted the project report before the deadline. However, the student may appear for the viva-voce examination within 60 days after the declaration of results for Project Work and the same shall not be considered as reappearance.

Amendment of Clause 17.5

17.6 Withdrawal is permitted for the end semester examinations in the final semester, as per clause 16.2.1.

18. PROVISION FOR AUTHORISED BREAK OF STUDY

18.1 A student is permitted to go on authorised break of study for a maximum period of one year as a single spell.

18.2 Break of Study shall be granted only once for valid reasons for a maximum of one year during the entire period of study of the degree programme. However, in extraordinary situation the student may apply for additional break of study not exceeding another one year. If a student intends to temporarily discontinue the

Dr.K.MANADEVAN,B.E.,M.E.,Ph.D.
PRINCIPAL
GMS COLLEGE OF ENGINEERING,

programme in the middle of the semester for valid reasons, and to re-join the programme in a subsequent year, permission may be granted based on the merits of the case provided he / she applies to the Director, Student Affairs in advance, but not later than the last date for registering for the end semester examination of the semester in question, through the Head of the Institution stating the reasons therefore and the probable date of re-joining the programme.

18.3 The candidates permitted to rejoin the programme after break of study / prevention due to lack of attendance, shall be governed by the Curriculum and Regulations in force at the time of rejoining. The students rejoining in new Regulations shall apply to the Director, Academic Courses in the prescribed format through Head of the Institution at the beginning of the readmitted semester itself for prescribing additional courses, if any, from any semester of the regulations in-force, so as to bridge the curriculum in-force and the old curriculum.

18.3.1 Total number of credits to be earned by the student shall be more than or equal to the total number of credits prescribed in the curriculum in force. If the credit assigned for L T P of the courses are not same in two Regulations under consideration, then equivalence shall be arrived as per the credit assignment followed in the Regulations in force.

Insertion of New Clause 18.3.1

18.4 The authorized break of study is included in the duration specified for passing all the courses for the purpose of classification (vide Clause 16.2).

18.5 The total period for completion of the Programme reckoned from, the commencement of the first semester to which the candidate was admitted shall not exceed the maximum period specified in clause 5.1 irrespective of the period of break of study in order that he/she may be eligible for the award of the degree.

18.6 If any student is prevented for want of required attendance, the period of prevention shall not be considered as authorized 'Break of Study' (Clause 18.1).

18.7 If a student in Full Time mode wants to take up a job / start-up / entrepreneurship during the period of study he/she shall apply for authorised break of study for one year. The student shall join the job / start-up / entrepreneurship only after getting approval of the same by the Director, Centre for Academic Courses with due proof to that effect.

18.8 No fee is applicable to students during the Break of Study period.

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

ANNA UNIVERSITY, CHENNAI
NON-AUTONOMOUS AFFILIATED COLLEGES
REGULATIONS 2021
CHOICE BASED CREDIT SYSTEM

B. E. MECHANICAL ENGINEERING

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

I. Effectuating success in careers by exploring with the design, digital and computational analysis of engineering systems, experimentation and teCsting, smart manufacturing, technical services, and research.

II. Amalgamating effectively with stakeholders to update and improve their core competencies and abilities to ethically compete in the ever-changing multicultural global enterprise.

III. To encourage multi-disciplinary research and development to foster advanced technology, and to nurture innovation and entrepreneurship in order to compete successfully in the global economy.

IV. To globally share and apply technical knowledge to create new opportunities that proactively advances our society through team efforts and to solve various challenging technical, environmental and societal problems.

V. To create world class mechanical engineers capable of practice engineering ethically with a solid vision to become great leaders in academia, industries and society.

PROGRAM OUTCOMES (POs)

PO	GRADUATE ATTRIBUTE
1	**Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2	**Problem analysis**: Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3	**Design/development of solutions**: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4	**Conduct investigations of complex problems**: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5	**Modern tool usage**: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
6	**The engineer and society**: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

7 **Environment and sustainability**: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

8 **Ethics**: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9 **Individual and team work**: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10 **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11 **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

12 **Life-long learning**: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOMES (PSOs)

On successful completion of the Mechanical Engineering Degree programme, the Graduates shall exhibit the following:

1. Apply the knowledge gained in Mechanical Engineering for design and development and manufacture of engineering systems.
2. Apply the knowledge acquired to investigate research-oriented problems in mechanical engineering with due consideration for environmental and social impacts.
3. Use the engineering analysis and data management tools for effective management of multidisciplinary projects.

PEO / PO MAPPING:

	POs												PSOs		
PEOs	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**1**	**2**	**3**
I.	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
II.	3	2	2	2	2	1	1	1	3		2	1	2	3	3
III.	3	1	2	1	2	2	1		1	2		3	3	2	2
IV.	2	2	2	2	2		2				1	2	2	3	3
V.	3	2	2	2	1	3	2	2	2	1	1	3	3	2	2

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

Mapping of Course Outcome and Programme Outcome

Year	Semester	Course name	PO												PSO	
			1	2	3	4	5	6	7	8	9	10	11	12	1	2
I	I	Professional English- I	1.6	2.2	1.8	2.2	1.5	3	3	3	1.6	3	3	3		
		Matrices and Calculus	3	3	1	1	0	0	0	0	2	0	2	3	-	-
		Engineering Physics	3	3	1.6	1.2	1.8	1	-	-	-	-	-	1	-	-
		Engineering Chemistry	2.8	1.3	1.6	1	-	1.5	1.8	-		-	-	1.5	-	-
		Problem Solving and Python Programming	2	3	3	3	2	-	-	-	-	-	2	2	3	3
		தமிழர் மரபு /Heritage of Tamils	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Problem Solving and Python Programming Laboratory	2	3	3	3	2	-	-	-	-	-	2	2	3	3
		Physics and Chemistry Laboratory	3	2.4	2.6	1	1	-	-	-	-	-	-	-	-	-
			2.6	1.3	1.6	1	1	1.4	1.8	-	-	-	-	1.3	-	-
		English Laboratory[$]	3	3	3	3	1	3	3	3	3	3	3	3	-	-
	II	Professional English- II	3	3	3	3	2.75	3	3	3	2.2	3	3	3	-	-
		Statistics and Numerical Methods	3	3	1	1	1	0	0	0	2	0	2	3	-	-
		Materials Science	3	2	1.6	1.4	1.8	1.2	1	-	-	-	-	1	-	-
		Basic Electrical and Electronics Engineering	2	1.8	1					1				2		
		Engineering Graphics	3	1	2	-	2	-	-	-	-	3	-	2	2	2
		தமிழரும் தொழில்நுட்பமும் / Tamils and Technology	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Engineering Practices Laboratory	3	2	-		1	1	1	-	-	-	-	2	2	1
		Basic Electrical and Electronics Engineering Laboratory	3	3	2	1	1	-	-	1.5	2	-	-	-	-	-
		Communication Laboratory / Foreign Language [$]	2.4	2.8	3	3	1.8	3	3	3	3	3	3	3	-	-
II	III	Transforms and Partial Differential Equations	3	3	2	2	1	-	-	-	1	-	-	1	3	3
		Engineering Mechanics	3	2	3	1	2	-	-	-	-	-	-	2	3	1
		Engineering Thermodynamics	3	3	2			1			1		1	2	3	2
		Fluid Mechanics and Machinery	3	2	3	2	2	2	2	1	-	-	-	2	2	2
		Engineering Materials and Metallurgy	3	1	3	2	2	2	2	1	-	-	-	2	2	1
		Manufacturing Processes	3		2		2	2	2	1	1	-	-	1	3	1
		Professional Development	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	IV	Theory of Machines	3	2	2		2	-	-	1		-	-	1	3	
		Thermal Engineering	3	2	1	1	-	-	-	-	-	-	-	1	2	1
		Hydraulics and Pneumatics	2	1	1	1	-	-	-	-	-	-	-	1	2	1
		Manufacturing Technology	3	3	3	1	1	1	3	-	-	3	-	-	3	2
		Strength of Materials	3	3	3	3	2	3	1	3	2	3	1	3	2	1
		Environmental Sciences and Sustainability	1	1	1	-	-	3	-	1	-	2	1	2	2	1
III	V	Design of Machine Elements	2	2	3	-	-	-	-	1	1	-	-	2	3	2
		Metrology and Measurements	3	2	2	2	-	-	-	-	1	-	-	1	3	2

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

	VI	Heat and Mass Transfer	3	3	3	2	-	-	-	-	1	-	-	1	3	2	
IV	VII	Mechatronics and IoT	3	2	2	2	2.		1		1	-	-	2	1	2	
		Computer Integrated Manufacturing	3	2	2	1	2	-	-	-	1	-	-	1	2	1	
		Human Values and Ethics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		Industrial Management	-	-	1	1	-	3	2	3	2	3	2	3	1	1	

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

ANNA UNIVERSITY, CHENNAI
NON-AUTONOMOUS AFFILIATED COLLEGES
REGULATIONS 2021
CHOICE BASED CREDIT SYSTEM
B. E. MECHANICAL ENGINEERING
CURRICULUM AND SYLLABI FOR I TO VIII SEMESTERS

SEMESTER I

SL. NO.	COURSE CODE	COURSE TITLE	CATE - GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	IP3151	Induction Programme	-	-	-	-	-	0
THEORY								
2.	HS3152	Professional English - I	HSMC	3	0	0	3	3
3.	MA3151	Matrices and Calculus	BSC	3	1	0	4	4
4.	PH3151	Engineering Physics	BSC	3	0	0	3	3
5.	CY3151	Engineering Chemistry	BSC	3	0	0	3	3
6.	GE3151	Problem Solving and Python Programming	ESC	3	0	0	3	3
7.	GE3152	தமிழர் மரபு/Heritage of Tamils	HSMC	1	0	0	1	1
PRACTICAL								
7	GE3171	Problem Solving and Python Programming Laboratory	ESC	0	0	4	4	2
8	BS3171	Physics and Chemistry Laboratory	BSC	0	0	4	4	2
9	GE3172	English Laboratory $	EEC	0	0	2	2	1
			TOTAL	**16**	**1**	**10**	**27**	**22**

$ Skill Based Course

SEMESTER II

SL. NO.	COURSE CODE	COURSE TITLE	CATE - GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	HS3252	Professional English - II	HSMC	2	0	0	2	2
2.	MA3251	Statistics and Numerical Methods	BSC	3	1	0	4	4
3.	PH3251	Materials Science	BSC	3	0	0	3	3
4.	BE3251	Basic Electrical and Electronics Engineering	ESC	3	0	0	3	3
5.	GE3251	Engineering Graphics	ESC	2	0	4	6	4
6.	GE3252	தமிழரும் தொழில்நுட்பமும் / Tamils and Technology	HSMC	1	0	0	1	1
7.		NCC Credit Course Level 1#	-	2	0	0	2	2
PRACTICAL								
8.	GE3271	Engineering Practices Laboratory	ESC	0	0	4	4	2
9.	BE3271	Basic Electrical and Electronics Engineering Laboratory	ESC	0	0	4	4	2
10.	GE3272	Communication Laboratory / Foreign Language $	EEC	0	0	4	4	2
			TOTAL	**14**	**1**	**16**	**31**	**23**

 # NCC Credit Course level 1 is offered for NCC students only. The grades earned by the students will be recorded in the Mark Sheet, however the same shall not be considered for the computation of CGPA.

$ Skill Based Course

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

SEMESTER III

SL. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	MA3351	Transforms and Partial Differential Equations	BSC	3	1	0	4	4
2.	ME3351	Engineering Mechanics	ESC	3	0	0	3	3
3.	ME3391	Engineering Thermodynamics	PCC	3	0	0	3	3
4.	CE3391	Fluid Mechanics and Machinery	ESC	3	1	0	4	4
5.	ME3392	Engineering Materials and Metallurgy	PCC	3	0	0	3	3
6.	ME3393	Manufacturing Processes	PCC	3	0	0	3	3
PRACTICALS								
7.	ME3381	Computer Aided Machine Drawing	ESC	0	0	4	4	2
8.	ME3382	Manufacturing Technology Laboratory	PCC	0	0	4	4	2
9.	GE3361	Professional Development[$]	EEC	0	0	2	2	1
			TOTAL	**18**	**2**	**10**	**30**	**25**

$ Skill Based Course

SEMESTER IV

SL. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	ME3491	Theory of Machines	PCC	3	0	0	3	3
2.	ME3451	Thermal Engineering	PCC	4	0	0	4	4
3.	ME3492	Hydraulics and Pneumatics	PCC	3	0	0	3	3
4.	ME3493	Manufacturing Technology	PCC	3	0	0	3	3
5.	CE3491	Strength of Materials	PCC	3	0	0	3	3
6.	GE3451	Environmental Sciences and Sustainability	BSC	2	0	0	2	2
7.		NCC Credit Course Level 2[#]		3	0	0	3	3#
PRACTICALS								
8.	CE3481	Strength of Materials and Fluid Machinery Laboratory	PCC	0	0	4	4	2
9.	ME3461	Thermal Engineering Laboratory	PCC	0	0	4	4	2
			TOTAL	**18**	**0**	**8**	**26**	**22**

 # NCC Credit Course level 2 is offered for NCC students only. The grades earned by the students will be recorded in the Mark Sheet, however the same shall not be considered for the computation of CGPA.

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

SEMESTER V

S. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	ME3591	Design of Machine Elements	PCC	4	0	0	4	4
2.	ME3592	Metrology and Measurements	PCC	3	0	0	3	3
3.		Professional Elective I	PEC	-	-	-	-	3
4.		Professional Elective II	PEC	-	-	-	-	3
5.		Professional Elective III	PEC	-	-	-	-	3
6.		Mandatory Course-I[&]	MC	3	0	0	3	Non-Credit Course
PRACTICALS								
7.	ME3511	Summer Internship*	EEC	0	0	0	0	1
8.	ME3581	Metrology and Dynamics Laboratory	PCC	0	0	4	4	2
			TOTAL	-	-	-	-	**19**

***Two weeks Summer Internship carries one credit and it will be done during IV semester summer vacation and same will be evaluated in V semester.**

[&] Mandatory Course-I is a Non-credit Course (Student shall select one course from the list given under MC- I)

SEMESTER VI

S. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	ME3691	Heat and Mass Transfer	PCC	3	1	0	4	4
2.		Professional Elective IV	PEC	-	-	-	-	3
3.		Professional Elective V	PEC	-	-	-	-	3
4.		Professional Elective VI	PEC	-	-	-	-	3
5.		Professional Elective VII	PEC	-	-	-	-	3
6.		Open Elective – I*	OEC	3	0	0	3	3
7.		Mandatory Course-II[&]	MC	3	0	0	3	Non-Credit Course
8.		NCC Credit Couse Level 3[#]		3	0	0	3	3#
PRACTICALS								
9.	ME3681	CAD/CAM Laboratory	PCC	0	0	4	4	2
10.	ME3682	Heat Transfer Laboratory	PCC	0	0	4	4	2
			TOTAL	-	-	-	-	**23**

***Open Elective – I shall be chosen from the emerging technologies.**

[&] Mandatory Course-II is a Non-credit Course (Student shall select one course from the list given under MC- II)

[#] NCC Credit Course level 3 is offered for NCC students only. The grades earned by the students will be recorded in the Mark Sheet, however the same shall not be considered for the computation of CGPA

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

SEMESTER VII / VIII*

S. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	ME3791	Mechatronics and IoT	PCC	3	0	0	3	3
2.	ME3792	Computer Integrated Manufacturing	PCC	3	0	0	3	3
3.	GE3791	Human Values and Ethics	HSMC	2	0	0	2	2
4.	GE3792	Industrial Management	HSMC	3	0	0	3	3
5.		Open Elective – II**	OEC	3	0	0	3	3
6.		Open Elective – III***	OEC	3	0	0	3	3
7.		Open Elective – IV***	OEC	3	0	0	3	3
PRACTICALS								
8.	ME3781	Mechatronics and IoT Laboratory	PCC	0	0	4	4	2
9.	ME3711	Summer Internship#	EEC	0	0	0	0	1
			TOTAL	**20**	**0**	**4**	**24**	**23**

#Two weeks Summer Internship carries one credit and it will be done during VI semester summer vacation and same will be evaluated in VII semester.

***If students undergo internship in Semester VII, then the courses offered during semester VII will be offered during semester VIII.**

****Open Elective – II shall be chosen from the emerging technologies.**

*****Open Elective III and IV (Shall be chosen from the list of open electives offered by other Programmes).**

SEMESTER VIII /VII*

S. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
PRACTICALS								
1.	ME3811	Project Work / Internship	EEC	0	0	20	20	10
			TOTAL	**0**	**0**	**20**	**20**	**10**

***If students undergo internship in Semester VII, then the courses offered during semester VII will be offered during semester VIII.**

TOTAL CREDITS:167

CMS COLLEGE OF ENGINEERING NAMAKKAL

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

MANDATORY COURSES I*

S. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS
				L	T	P	
1.	MX3081	Introduction to Women and Gender Studies	MC	3	0	0	3
2.	MX3082	Elements of Literature	MC	3	0	0	3
3.	MX3083	Film Appreciation	MC	3	0	0	3
4.	MX3084	Disaster Risk Reduction and Management	MC	3	0	0	3

***Mandatory Courses are offered as Non-Credit courses**

MANDATORY COURSES II*

S. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS
				L	T	P	
1.	MX3085	Well Being with Traditional Practices - Yoga, Ayurveda and Siddha	MC	3	0	0	3
2.	MX3086	History of Science and Technology in India	MC	3	0	0	3
3.	MX3087	Political and Economic Thought for a Humane Society	MC	3	0	0	3
4.	MX3088	State, Nation Building and Politics in India	MC	3	0	0	3
5.	MX3089	Industrial Safety	MC	3	0	0	3

***Mandatory Courses are offered as Non-Credit courses**

CMS COLLEGE OF ENGINEERING NAMAKKAL

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

PROFESSIONAL ELECTIVE COURSES: VERTICALS

VERTICAL 1	VERTICAL 2	VERTICAL 3	VERTICAL 4	VERTICAL 5	VERTICAL 6	VERTICAL 7	VERTICAL 8	VERTICAL 9	VERTICAL 10
MODERN MOBILITY SYSTEMS	**PRODUCT AND PROCESS DEVELOPMENT**	**ROBOTICS AND AUTOMATION**	**DIGITAL AND GREEN MANUFACTURING**	**PROCESS EQUIPMENT AND PIPING DESIGN**	**CLEAN AND GREEN ENERGY TECHNOLOGIES**	**COMPUTATIONAL ENGINEERING**	**DIVERSIFIED COURSES GROUP 1**	**DIVERSIFIED COURSES GROUP 2**	**DIVERSIFIED COURSES GROUP 3**
Automotive Materials, Components, Design & Testing	Value Engineering	Sensors and Instrumentation	Digital Manufacturing and IoT	Design of Pressure Vessels	Bioenergy Conversion Technologies	Computational Solid Mechanics	Automobile Engineering	Turbo Machines	Advanced Vehicle Engineering
Conventional and Futuristic Vehicle Technology	Additive Manufacturing	Electrical Drives and Actuators	Lean Manufacturing	Failure Analysis and NDT Techniques	Carbon Footprint estimation and reduction techniques	Computational Fluid Dynamics and Heat transfer	Measurements and Controls	Non-traditional Machining Processes	Advanced Internal Combustion Engineering
Renewable Powered Off Highway Vehicles and Emission Control Technology	CAD/CAM	Embedded Systems and Programming	Modern Robotics	Material Handling and solid processing Equipment	Energy Conservation in Industries	Theory on Computation and Visualization	Design Concepts in Engineering	Industrial safety	Casting and Welding Processes
Vehicle Health Monitoring, Maintenance and Safety	Design For X	Robotics	Green Manufacturing Design and Practices	Rotating Machinery Design	Energy Efficient Buildings	Computational Bio-Mechanics	Composite Materials and Mechanics	Design of Transmission System	Process Planning and Cost Estimation
CAE and CFD Approach in Future Mobility	Ergonomics in Design	Smart Mobility and Intelligent Vehicles	Environment Sustainability and Impact Assessment	Thermal and Fired Equipment design	Energy Storage Devices	Advanced Statistics and Data Analytics	Electrical Drives and Control	Thermal Power Engineering	Surface Engineering
Hybrid and Electric Vehicle Technology	New Product Development	Haptics and Immersive Technologies	Energy Saving Machinery and Components	Industrial Layout Design and Safety	Renewable Energy Technologies	CAD and CAE	Power Plant Engineering	Design for Manufacturing	Precision Manufacturing
Thermal Management of Batteries and Fuel Cells	Product Life Cycle Management	Drone Technologies	Green Supply Chain Management	Design Codes and Standards	Equipment for Pollution Control	Machine Learning for Intelligent Systems	Refrigeration and Air Conditioning	Power Generation Equipment Design	Gas Dynamics and Jet Propulsion
-	-	-	-	-	-	-	Dynamics of Ground Vehicles	-	Operational Research

Registration of Professional Elective Courses from Verticals:

Refer to the Regulations 2021, Clause 6.3. (Amended on 27.07.2023)

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

PROFESSIONAL ELECTIVE COURSES : VERTICALS

VERTICAL 1 : MODERN MOBILITY SYSTEMS

Sl. No.	Course Code	Course Title	Category	Periods Per week			Total Contact period	Credits
				L	T	P		
1.	CME331	Automotive Materials, Components, Design and Testing	PEC	2	0	2	4	3
2.	CME332	Conventional and Futuristic Vehicle Technology	PEC	3	0	0	3	3
3.	CME333	Renewable Powered Off Highway Vehicles and Emission Control Technology	PEC	3	0	0	3	3
4.	CME334	Vehicle Health Monitoring, Maintenance and Safety	PEC	3	0	0	3	3
5.	CME335	CAE and CFD Approach in Future Mobility	PEC	2	0	2	4	3
6.	CME336	Hybrid and Electric Vehicle Technology	PEC	3	0	0	3	3
7.	CME337	Thermal Management of Batteries and Fuel Cells	PEC	3	0	0	3	3

VERTICAL 2 : PRODUCT AND PROCESS DEVELOPMENT

Sl. No.	Course Code	Course Title	Category	Periods Per week			Total Contact period	Credits
				L	T	P		
1.	CME338	Value Engineering	PEC	3	0	0	3	3
2.	CME339	Additive Manufacturing	PEC	2	0	2	4	3
3.	CME340	CAD/CAM	PEC	3	0	0	3	3
4.	CME341	Design For X	PEC	3	0	0	3	3
5.	CME342	Ergonomics in Design	PEC	3	0	0	3	3
6.	CME343	New Product Development	PEC	3	0	0	3	3
7.	CME344	Product Life Cycle Management	PEC	3	0	0	3	3

VERTICAL 3: ROBOTICS AND AUTOMATION

Sl. No.	Course Code	Course Title	Category	Periods Per week			Total Contact Period	Credits
				L	T	P		
1.	MR3491	Sensors and Instrumentation	PEC	3	0	0	3	3
2.	MR3392	Electrical Drives and Actuators	PEC	3	0	0	3	3
3.	MR3492	Embedded Systems and Programming	PEC	2	0	2	4	3
4.	MR3691	Robotics	PEC	3	0	0	3	3
5.	CMR338	Smart Mobility and Intelligent Vehicles	PEC	3	0	0	3	3
6.	CME345	Haptics and Immersive Technologies	PEC	3	0	0	3	3
7.	CRA332	Drone Technologies	PEC	3	0	0	3	3

CMS COLLEGE OF ENGINEERING NAMAKKAL

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

VERTICAL 4: DIGITAL AND GREEN MANUFACTURING

Sl. No.	Course Code	Course Title	Category	Periods Per week			Total Contact Period	Credits
				L	T	P		
1.	CME346	Digital Manufacturing and IoT	PEC	2	0	2	4	3
2.	CME347	Lean Manufacturing	PEC	3	0	0	3	3
3.	CME348	Modern Robotics	PEC	2	0	2	4	3
4.	CME349	Green Manufacturing Design and Practices	PEC	3	0	0	3	3
5.	CME350	Environment Sustainability and Impact Assessment	PEC	3	0	0	3	3
6.	CME351	Energy Saving Machinery and Components	PEC	3	0	0	3	3
7.	CME352	Green Supply Chain Management	PEC	3	0	0	3	3

VERTICAL 5: PROCESS EQUIPMENT AND PIPING DESIGN

Sl. No.	Course Code	Course Title	Category	Periods Per week			Total Contact Period	Credits
				L	T	P		
1.	CME353	Design of Pressure Vessels	PEC	3	0	0	3	3
2.	CME354	Failure Analysis and NDT Techniques	PEC	2	0	2	4	3
3.	CME355	Material Handling and Solid Processing Equipment	PEC	3	0	0	3	3
4.	CME356	Rotating Machinery Design	PEC	3	0	0	3	3
5.	CME357	Thermal and Fired Equipment Design	PEC	3	0	0	3	3
6.	CME358	Industrial Layout Design and Safety	PEC	2	0	2	4	3
7.	CME359	Design Codes and Standards	PEC	3	0	0	3	3

VERTICAL 6: CLEAN AND GREEN ENERGY TECHNOLOGIES

Sl. No.	Course Code	Course Title	Category	Periods Per week			Total contact Periods	Credits
				L	T	P		
1.	CME360	Bioenergy Conversion Technologies	PEC	3	0	0	3	3
2.	CME361	Carbon Footprint Estimation and Reduction Techniques	PEC	3	0	0	3	3
3.	CME362	Energy Conservation in Industries	PEC	3	0	0	3	3
4.	CME363	Energy Efficient Buildings	PEC	3	0	0	3	3
5.	CME364	Energy Storage Devices	PEC	3	0	0	3	3
6.	CME365	Renewable Energy Technologies	PEC	3	0	0	3	3
7.	CME366	Equipment for Pollution Control	PEC	3	0	0	3	3

CMS COLLEGE OF ENGINEERING NAMAKKAL

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

VERTICAL 7: COMPUTATIONAL ENGINEERING

Sl. No.	Course Code	Course Title	Category	Periods Per week			Total contact periods	Credits
				L	T	P		
1.	CME367	Computational Solid Mechanics	PEC	3	0	0	3	3
2.	CME368	Computational Fluid Dynamics and Heat transfer	PEC	3	0	0	3	3
3.	CME369	Theory on Computation and Visualization	PEC	3	0	0	3	3
4.	CME370	Computational Bio-Mechanics	PEC	3	0	0	3	3
5.	CME371	Advanced Statistics and Data Analytics	PEC	3	0	0	3	3
6.	CME372	CAD and CAE	PEC	2	0	2	4	3
7.	CRA342	Machine Learning for Intelligent Systems	PEC	3	0	0	3	3

VERTICAL 8: DIVERSIFIED COURSES GROUP 1

Sl. No.	Course Code	Course Title	Category	Periods Per week			Total Contact Periods	Credits
				L	T	P		
1.	CME380	Automobile Engineering	PEC	3	0	0	3	3
2.	ME3001	Measurements and Controls	PEC	3	0	0	3	3
3.	CME381	Design Concepts in Engineering	PEC	3	0	0	3	3
4.	CME382	Composite Materials and Mechanics	PEC	3	0	0	3	3
5.	CME383	Electrical Drives and Control	PEC	3	0	0	3	3
6.	CME384	Power Plant Engineering	PEC	3	0	0	3	3
7.	CME385	Refrigeration and Air Conditioning	PEC	3	0	0	3	3
8.	CAU332	Dynamics of Ground Vehicles	PEC	3	0	0	3	3

VERTICAL 9: DIVERSIFIED COURSES GROUP 2

Sl. No.	Course Code	Course Title	Category	Periods Per week			Total Contact Periods	Credits
				L	T	P		
1.	CAE353	Turbo Machines	PEC	3	0	0	3	3
2.	CME387	Non-traditional Machining Processes	PEC	3	0	0	3	3
3.	CME388	Industrial safety	PEC	3	0	0	3	3
4.	CME389	Design of Transmission System	PEC	3	0	0	3	3
5.	CME390	Thermal Power Engineering	PEC	3	0	0	3	3
6.	CME391	Design for Manufacturing	PEC	3	0	0	3	3
7.	CME392	Power Generation Equipment Design	PEC	3	0	0	3	3

CMS COLLEGE OF ENGINEERING NAMAKKAL

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

VERTICAL 10: DIVERSIFIED COURSES GROUP 3

Sl. No.	Course Code	Course Title	Category	Periods Per week			Total Contact periods	Credits
				L	T	P		
1.	CME393	Advanced Vehicle Engineering	PEC	3	0	0	3	3
2.	CME394	Advanced Internal Combustion Engineering	PEC	3	0	0	3	3
3.	CME395	Casting and Welding Processes	PEC	3	0	0	3	3
4.	CME396	Process Planning and Cost Estimation	PEC	3	0	0	3	3
5.	CME397	Surface Engineering	PEC	3	0	0	3	3
6.	CME398	Precision Manufacturing	PEC	3	0	0	3	3
7.	CME386	Gas Dynamics and Jet Propulsion	PEC	3	0	0	3	3
8.	CME399	Operational Research	PEC	3	0	0	3	3

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

OPEN ELECTIVES

(Students shall choose the open elective courses, such that the course contents are not similar to any other course contents/title under other course categories)

OPEN ELECTIVE I AND II
(EMERGING TECHNOLOGIES)

To be offered other than Faculty of Information and Communication Engineering

SL. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	OCS351	Artificial Intelligence and Machine Learning Fundamentals	OEC	2	0	2	4	3
2.	OCS352	IoT Concepts and Applications	OEC	2	0	2	4	3
3.	OCS353	Data Science Fundamentals	OEC	2	0	2	4	3
4.	CCS333	Augmented Reality / Virtual Reality	OEC	2	0	2	4	3

OPEN ELECTIVES – III

SL. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	OCE353	Lean Concepts, Tools And Practices	OEC	3	0	0	3	3
2.	OHS351	English for Competitive Examinations	OEC	3	0	0	3	3
3.	OMG352	NGOs and Sustainable Development	OEC	3	0	0	3	3
4.	OMG353	Democracy and Good Governance	OEC	3	0	0	3	3
5.	OME354	Applied Design Thinking	OEC	3	0	0	3	3
6.	MF3003	Reverse Engineering	OEC	3	0	0	3	3
7.	OPR351	Sustainable Manufacturing	OEC	3	0	0	3	3
8.	AU3791	Electric and Hybrid Vehicles	OEC	3	0	0	3	3
9.	OAS352	Space Engineering	OEC	3	0	0	3	3
10.	OIM351	Industrial Management	OEC	3	0	0	3	3
11.	OIE354	Quality Engineering	OEC	3	0	0	3	3
12.	OSF351	Fire Safety Engineering	OEC	3	0	0	3	3
13.	OAE352	Fundamentals of Aeronautical engineering	OEC	3	0	0	3	3
14.	OML351	Introduction to non-destructive testing	OEC	3	0	0	3	3
15.	OMR351	Mechatronics	OEC	3	0	0	3	3
16.	ORA351	Foundation of Robotics	OEC	3	0	0	3	3

CMS COLLEGE OF ENGINEERING NAMAKKAL

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

17.	OGI351	Remote Sensing Concepts	OEC	3	0	0	3	3
18.	OAI351	Urban Agriculture	OEC	3	0	0	3	3
19.	OEN351	Drinking Water Supply and Treatment	OEC	3	0	0	3	3
20.	OEE352	Electric Vehicle Technology	OEC	3	0	0	3	3
21.	OEI353	Introduction to PLC Programming	OEC	3	0	0	3	3
22.	OCH351	Nano Technology	OEC	3	0	0	3	3
23.	OCH352	Functional Materials	OEC	3	0	0	3	3
25.	OFD352	Traditional Indian Foods	OEC	3	0	0	3	3
26.	OFD353	Introduction to food processing	OEC	3	0	0	3	3
27.	OPY352	IPR for Pharma Industry	OEC	3	0	0	3	3
28.	OTT351	Basics of Textile Finishing	OEC	3	0	0	3	3
29.	OTT352	Industrial Engineering for Garment Industry	OEC	3	0	0	3	3
30.	OTT353	Basics of Textile Manufacture	OEC	3	0	0	3	3
31.	OPE351	Introduction to Petroleum Refining and Petrochemicals	OEC	3	0	0	3	3
32.	OPE334	Energy Conservation and Management	OEC	3	0	0	3	3
33.	OPT351	Basics of Plastics Processing	OEC	3	0	0	3	3
34.	OEC351	Signals and Systems	OEC	3	0	0	3	3
35.	OEC352	Fundamentals of Electronic Devices and Circuits	OEC	3	0	0	3	3
36.	CBM348	Foundation Skills in integrated product Development	OEC	3	0	0	3	3
37.	CBM333	Assistive Technology	OEC	3	0	0	3	3
38.	OMA352	Operations Research	OEC	3	0	0	3	3
39.	OMA353	Algebra and Number Theory	OEC	3	0	0	3	3
40.	OMA354	Linear Algebra	OEC	3	0	0	3	3
41.	OBT352	Basics of Microbial Technology	OEC	3	0	0	3	3
42.	OBT353	Basics of Biomolecules	OEC	3	0	0	3	3
43.	OBT354	Fundamentals of Cell and Molecular Biology	OEC	3	0	0	3	3

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

OPEN ELECTIVES – IV

SL. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	OCE354	Basics of Integrated Water Resources Management	OEC	3	0	0	3	3
2.	OHS352	Project Report Writing	OEC	3	0	0	3	3
3.	OMA355	Advanced Numerical Methods	OEC	3	0	0	3	3
4.	OMA356	Random Processes	OEC	3	0	0	3	3
5.	OMA357	Queueing and Reliability Modelling	OEC	3	0	0	3	3
6.	OMG354	Production and Operations Management for Entrepreneurs	OEC	3	0	0	3	3
7.	OMG355	Multivariate Data Analysis	OEC	3	0	0	3	3
8.	OME355	Industrial Design & Rapid Prototyping Techniques	OEC	3	0	0	3	3
9.	MF3010	Micro and Precision Engineering	OEC	3	0	0	3	3
10.	OMF354	Cost Management of Engineering Projects	OEC	3	0	0	3	3
11.	AU3002	Batteries and Management system	OEC	3	0	0	3	3
12.	AU3008	Sensors and Actuators	OEC	3	0	0	3	3
13.	OAS353	Space Vehicles	OEC	3	0	0	3	3
14.	OIM352	Management Science	OEC	3	0	0	3	3
15.	OIM353	Production Planning and Control	OEC	3	0	0	3	3
16.	OIE353	Operations Management	OEC	3	0	0	3	3
17.	OSF352	Industrial Hygiene	OEC	3	0	0	3	3
18.	OSF353	Chemical Process Safety	OEC	3	0	0	3	3
19.	OML352	Electrical, Electronic and Magnetic materials	OEC	3	0	0	3	3
20.	OML353	Nanomaterials and applications	OEC	3	0	0	3	3
21.	OMR353	Sensors	OEC	3	0	0	3	3
22.	ORA352	Concepts in Mobile Robots	OEC	3	0	0	3	3
23.	MV3501	Marine Propulsion	OEC	3	0	0	3	3
24.	OMV351	Marine Merchant Vessels	OEC	3	0	0	3	3
25.	OMV352	Elements of Marine Engineering	OEC	3	0	0	3	3
26.	CRA332	Drone Technologies	OEC	3	0	0	3	3

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

27.	OGI352	Geographical Information System	OEC	3	0	0	3	3
28.	OAI352	Agriculture Entrepreneurship Development	OEC	3	0	0	3	3
29.	OEN352	Biodiversity Conservation	OEC	3	0	0	3	3
30.	OEE353	Introduction to control systems	OEC	3	0	0	3	3
31.	OEI354	Introduction to Industrial Automation Systems	OEC	3	0	0	3	3
32.	OCH353	Energy Technology	OEC	3	0	0	3	3
33.	OCH354	Surface Science	OEC	3	0	0	3	3
34.	OFD354	Fundamentals of Food Engineering	OEC	3	0	0	3	3
35.	OFD355	Food safety and Quality Regulations	OEC	3	0	0	3	3
36.	OPY353	Nutraceuticals	OEC	3	0	0	3	3
37.	OTT354	Basics of Dyeing and Printing	OEC	3	0	0	3	3
38.	FT3201	Fibre Science	OEC	3	0	0	3	3
39.	OTT355	Garment Manufacturing Technology	OEC	3	0	0	3	3
40.	OPE353	Industrial Safety	OEC	3	0	0	3	3
41.	OPE354	Unit Operations in Petro Chemical Industries	OEC	3	0	0	3	3
42.	OPT352	Plastic Materials for Engineers	OEC	3	0	0	3	3
43.	OPT353	Properties and Testing of Plastics	OEC	3	0	0	3	3
44.	OEC353	VLSI Design	OEC	3	0	0	3	3
45.	CBM370	Wearable devices	OEC	3	0	0	3	3
46.	CBM356	Medical Informatics	OEC	3	0	0	3	3
47.	OBT355	Biotechnology for Waste Management	OEC	3	0	0	3	3
48.	OBT356	Lifestyle Diseases	OEC	3	0	0	3	3
49.	OBT357	Biotechnology in Health Care	OEC	3	0	0	3	3

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

SUMMARY

B.E. MECHANICAL ENGINEERING										
S.No	Subject Area	Credits per Semester								Total Credits
		I	II	III	IV	V	VI	VII/VIII	VIII/VII	
1	HSMC	4	3					5		13
2	BSC	12	7	4	2					25
3	ESC	5	11	9						24
4	PCC			11	20	9	8	8		56
5	PEC					9	12			21
6	OEC						3	9		12
7	EEC	1	2	1		1		1	10	13
8	Non-Credit /(Mandatory)					√	√			
Total		22	23	25	22	19	23	23	10	167

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

CMS COLLEGE OF ENGINEERING NAMAKKAL

ENROLLMENT FOR B.E. / B. TECH. (HONOURS) / MINOR DEGREE (OPTIONAL)

A student can also optionally register for additional courses (18 credits) and become eligible for the award of B.E. / B. Tech. (Honours) or Minor Degree.

For B.E. / B. Tech. (Honours), a student shall register for the additional courses (18 credits) from semester V onwards. These courses shall be from the same vertical or a combination of different verticals of the same programme of study only.

For minor degree, a student shall register for the additional courses (18 credits) from semester V onwards. All these courses have to be in a particular vertical from any one of the other programmes, Moreover, for minor degree the student can register for courses from any one of the following verticals also.

Complete details are available in clause 4.10 (Amendments) of Regulations 2021.

VERTICALS FOR MINOR DEGREE(In addition to all the verticals of other programmes)

Vertical I	Vertical II	Vertical III	Vertical IV	Vertical V
Fintech and Block Chain	**Entrepreneurship**	**Public Administration**	**Business Data Analytics**	**Environment and Sustainability**
Financial Management	Foundations of Entrepreneruship	Principles of Public Administration	Statistics for Management	Sustainable infrastructure Development
Fundamentals of Investment	Team Building and Leadership Management for Business	Constitution of India	Datamining for Business Intelligence	Sustainable Agriculture and Environmental Management
Banking, Financial Services and Insurance	Creativity and Innovation in Entrepreneurship	Public Personnel Administration	Human Resource Analytics	Sustainable Bio Materials
Introduction to Blockchain and its Applications	Principles of Marketing Management for Business	Administrative Theories	Marketing and Social Media Web Analytics	Materials for Energy Sustainability
Fintech Personal Finance and Payments	Human Resource Management for Entrepreneurs	Indian Administrative System	Operation and Supply Chain Analytics	Green Technology
Introduction to Fintech	Financing New Business Ventures	Public Policy Administration	Financial Analytics	Environmental Quality Monitoring and Analysis
-	-	-	-	Integrated Energy Planning for Sustainable Development
-	-	-	-	Energy Efficiency for Sustainable Development

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

GMS COLLEGE OF ENGINEERING NAMAKKAL-3

(Choice of courses for Minor degree is to be made from any one vertical of other programmes or from anyone of the following verticals)

VERTICAL 1: FINTECH AND BLOCK CHAIN

SL. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	CMG331	Financial Management	PEC	3	0	0	3	3
2.	CMG332	Fundamentals of Investment	PEC	3	0	0	3	3
3.	CMG333	Banking, Financial Services and Insurance	PEC	3	0	0	3	3
4.	CMG334	Introduction to Blockchain and its Applications	PEC	3	0	0	3	3
5.	CMG335	Fintech Personal Finance and Payments	PEC	3	0	0	3	3
6.	CMG336	Introduction to Fintech	PEC	3	0	0	3	3

VERTICAL 2: ENTREPRENERUSHIP

SL. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	CMG337	Foundations of Entrepreneruship	PEC	3	0	0	3	3
2.	CMG338	Team Building and Leadership Management for Business	PEC	3	0	0	3	3
3.	CMG339	Creativity and Innovation in Entrepreneurship	PEC	3	0	0	3	3
4.	CMG340	Principles of Marketing Management for Business	PEC	3	0	0	3	3
5.	CMG341	Human Resource Management for Entrepreneurs	PEC	3	0	0	3	3
6.	CMG342	Financing New Business Ventures	PEC	3	0	0	3	3

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

VERTICAL 3: PUBLIC ADMINISTRATION

SL. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	CMG343	Principles of Public Administration	PEC	3	0	0	3	3
2.	CMG344	Constitution of India	PEC	3	0	0	3	3
3.	CMG345	Public Personnel Administration	PEC	3	0	0	3	3
4.	CMG346	Administrative Theories	PEC	3	0	0	3	3
5.	CMG347	Indian Administrative System	PEC	3	0	0	3	3
6.	CMG348	Public Policy Administration	PEC	3	0	0	3	3

VERTICAL 4: BUSINESS DATA ANALYTICS

SL. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	CMG349	Statistics for Management	PEC	3	0	0	3	3
2.	CMG350	Datamining for Business Intelligence	PEC	3	0	0	3	3
3.	CMG351	Human Resource Analytics	PEC	3	0	0	3	3
4.	CMG352	Marketing and Social Media Web Analytics	PEC	3	0	0	3	3
5.	CMG353	Operation and Supply Chain Analytics	PEC	3	0	0	3	3
6.	CMG354	Financial Analytics	PEC	3	0	0	3	3

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

Dr.K.MANADEVAN,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 Electronics & Communication Engineering

Minutes of Meeting

Date :09.09.22

Departmental meeting was held on 9th Sep,2022

The following points have been discussed:

1. It was decided to conduct Graduation Day on 14th September'22
   - Ms.K.LakshmiPriya , Mrs.R.Malathi incharge for registration fees payment(incharge for Department :B.E (CSE,ECE,EEE),ME-CSE,SE)
   - Mr.S.Soundrakumar , Ms.V.Thiriburasundari incharge for registration fees payment (Incharge for Department :BE(MECH,CIVIL),ME-MT)
   - Mr.T.Maheshwaran, Mr.Saranraj incharge for graduation gowns and ropes B.E (CSE,ECE,EEE),ME-CSE,SE)
   - Mr.S.Madhukumar , Mr.M.FarhanNizrani incharge for graduation gowns and ropes BE(MECH,CIVIL),ME-MT)
   - Mrs.K.Ramya, Ms.K.Dhivyasri incharge for graduation certificates (incharge for Department :B.E (CSE,ECE,EEE,MECH,CIVIL),ME-CSE,SE,MT)
   - Mr.B.Palaniyandi, Mr.V.Vellaiyan incharge for consolidation of photos and videos. (incharge for Department :B.E (CSE,ECE,EEE,MECH,CIVIL),ME-CSE,SE,MT)

2. Planned to Organize Inaugural function 15th September' 22

   Faculties allotted to look after the overall Discipline of Students

   1) Ms.M.Dhivya incharge for CSE
   2) Mr.S.Soundrakumar incharge for ECE
   3) Mr.T.Maheshwaran incharge of EEE
   4) Mr.M.FarhanNizrani incharge of MECH
   5) Mr.B.Palaniyandi incharge for overall status

CMS COLLEGE OF ENGINEERING NAMAKKAL

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

The following members were present:

S No	STAFF NAME	DESIGNATION	SIGNATURE
1	Mr.K.Periyasamy	Assistant Professor & Head / ECE	
2	Ms.K.LakshmiPriya	Assistant Professor	
3	Mrs.R.Malathi	Assistant Professor	
4	Mr.S.Soundrakumar	Assistant Professor	
5	, Ms.V.Thiriburasundari	Assistant Professor	
6	Mr.Saranraj	Assistant Professor	
7	Mr.S.Madhukumar	Assistant Professor	
8	Mr.M.FarhanNizrani	Assistant Professor	
9	Mrs.K.Ramya	Assistant Professor	
10	Ms.K.Dhivyasri	Assistant Professor	
11	Mr.B.Palaniyandi	Assistant Professor	
12	Mr.V.Vellaiyan	Assistant Professor	

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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 Electronics & Communication Engineering

Minutes of Meeting

Dated:17/08/22

Departmental meeting was held on 17.08.2022 at 2.45PM

The following points have been discussed:

1. Students are instructed to concentrate on academics for betterment in result.
2. Students are instructed to take part in co-curricular activities and events like conference, paper presentation, code debugging, website designing etc.
3. Students are instructed to attend the class actively without taking any leave and late comers will be punishable.
4. Students are instructed that Government of Tamilnadu has given an opportunity for job offers by the scheme of NAAN MUDHALVAN, you can learn the course anywhere, anytime at student portal.
5. Student representative for class committee meeting
    i. Ms.K.Arthi
    ii. Mr.J.Arkesh
    iii. Mr.M.Belagiri
    iv. Ms.K. Raghini

Dr.K.MANADEVAN,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

The following members were present :

SI No	Staff Name	Designation	Signature
1	Dr.C.A.Sathiyamoorthy	Professor	
2	Mr.K.Periyasamy	Assistant Professor	
3	Mr.P.Prabu	Assistant Professor	
4	Mr.S.Soundrakumar	Assistant Professor	

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

DEPARTMENT OF ELECTRICAL ANDELECTRONICSENGINEERING
SUBJECT ALLOCATION - ODD SEMESTER (2022 - 23)

S.No	Name of the Staff	Subject Willingness		Lab Willingness	Subject Allotted	Lab Allotted	Staff Signature
1	SURESH G	SOLID STATE DRIVES	INTELLECTUAL PROPERTY RIGHTS,BEEE	MINI PROJECT	SOLID STATE DRIVES,INTELLECTUAL PROPERTY RIGHTS	MINI PROJECT	
2	CHANDRASEKARAN T	EMBEDDDED SYSTEMS	LINEAR INTEGRATED CIRCUITS,BEEE	LINEAR AND DIGITAL CIRCUITS LABORATORY	EMBEDDDED SYSTEMS,LINEAR INTEGRATED CIRCUITS,BEEE,MICROPROCESSOR AND MICROCONTROLLER	LINEAR AND DIGITAL CIRCUITS LABORATORY,EPLAB	
3	SURESH A	MICROPROCESSOR AND MICROCONTROLLER	PROTECTION AND SWITCH GEAR,BEEE	MICROPROCESSORS AND MICROCONTROLLERS LABORATORY	PROTECTION AND SWITCH GEAR,BEEE	MICROPROCESSORS AND MICROCONTROLLERS LABORATORY,BEEE LAB	
4	THIRIBURASUNDARI V	TRANSMISSION AND DISTRIBUTION	POWER QUALITY,BEEE	ELECTRICALMACHINES -II LABORATORY	TRANSMISSION AND DISTRIBUTION,POWER QUALITY,BEEE	ELECTRICALMACHINES -II LABORATORY,EP LAB	
5	PAULRAJU D	MEASUREMENT AND INSTRUMENTATION,	ELECTRICALMACHINES - II,BEEE	POWER ELECTRONICS AND DRIVES LABORATORY	MEASUREMENT AND INSTRUMENTATION,ELECTRICAL MACHINES -II,BEEE	POWER ELECTRONICS AND DRIVES LABORATORY,EPLAB	

TIMETABLE INCHARGE

HOD

PRINCIPAL

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

DEPARTMENT OF ELECTRICAL AND ELECTRONICSENGINEERING
SUBJECT ALLOCATION - ODD SEMESTER (2022 - 23)

S.No	Name of the Staff	Subject Willingness		Lab Willingness	Subject Allotted	Lab Allotted	Staff Signature
1	SURESH G	ELECTRICAL MACHINES - I	BASICS OF BIOMEDICAL INSTRUMENTATION	ELECTRICAL MACHINES LABORATORY – I	ELECTRICAL MACHINES - I		
2	CHANDRASEKARAN T	DIGITAL SIGNAL PROCESSING	POWER SYSTEM ANALYSIS	CONTROL AND INSTRUMENTATION LAB	DIGITAL SIGNAL PROCESSING, POWER SYSTEM ANALYSIS		
3	SURESH A	POWER ELECTRONICS	ELECTRONIC DEVICES & CIRCUITS	ELECTRONIC DEVICES AND CIRCUITS LABORATORY	POWER ELECTRONICS,ELECTRONIC DEVICES & CIRCUITS	ELECTRONIC DEVICES AND CIRCUITS LABORATORY	
4	THIRIBURASUNDARI V	DIGITAL LOGIC CIRCUITS	BASICS OF BIOMEDICAL INSTRUMENTATION	ELECTRICAL MACHINES LABORATORY – I	DIGITAL LOGIC CIRCUITS,BASICS OF BIOMEDICAL INSTRUMENTATION	ELECTRICAL MACHINES LABORATORY – I	
5	PAULRAJU D	ELECTROMAGNETIC FIELDS	MICROPROCESSOR AND MICROCONTROLLER	CONTROL AND INSTRUMENTATION LAB	ELECTROMAGNETIC FIELDS, MICROPROCESSOR AND MICROCONTROLLER	CONTROL AND INSTRUMENTATION LAB	

TIMETABLE INCHARGE

HOD

PRINCIPAL

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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 COMPUTER SCIENCE AND ENGINEERING

SUBJECT ALLOCATION - ODD SEMESTER (2022-2023)

S.NO	NAME OF THE STAFF	SUBJECT WILLINGNESS		LAB WILLINGNESS		SUBJECT ALLOTTED		LAB ALLOTTED	STAFF SIGN
1	MR.S.DHINESH	PD II-ECE	PD II-EEE	DATA SCIENCE LAB II-CSE	OOPS LAB II-CSE	PD II-ECE	PSPP SEC-A	PSPP LAB SEC A	
2	MR.S.MADHAN	PD II-CSE	PD II-ECE	OOPS LAB II-CSE	DS LAB II-CSE	PD II-CSE	PD II-EEE		
3	MS.V.RENUKA	DS II-CSE	CN III-CSE	DS LAB II-CSE	DATA SCIENCE LAB II-CSE	DS II-CSE		DS LAB II-CSE	
4	MS.M.DHIVYA	OOPS II-CSE	FDS II-CSE	OOPS LAB II-CSE	DATA SCIENCE LAB II-CSE	OOPS II-CSE		OOPS LAB II-CSE	
5	MS.P.SATHIYA PRIYA	OOPS III-EEE	OOPS II-CSE	OOPS LAB III-EEE	OOPS LAB II-EEE	OOPS III-EEE		OOPS LAB III-EEE	

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

6	MS.L.FIRMI SILVIN	FDS II-CSE	OOPS III-EEE	DATA SCIENCE LAB II-CSE	OOPS LAB III-EEE	FDS II-CSE	DATA SCIENCE LAB II-CSE	
7	MS.K.DHIVYASRI	AP&CE III-CSE	FDS II-CSE	DATA SCIENCE LAB II-CSE	OOPS LAB III-EEE	AP&CE III-CSE		
8	MR.R.GOBINATH	CP&DS II-EEE	CP&DS II-ECE	CP&DS LAB II-EEE	CP&DS LAB II-ECE	CP&DS II-EEE	CP&DS LAB II-EEE	
9	MRS.K.RAMYA	TOC III-CSE	DS II-CSE	DS LAB II-CSE	DATA SCIENCE LAB II-CSE	TOC III-CSE / PSPP SEC –C	PSPP LAB SEC-C	
10	MR.T.MAHESWARAN	CP&DS II-EEE	FDS II-CSE	CP&DS LAB II-EEE	DATA SCIENCE LAB II-CSE	TECHNICAL SEMINOR		
11	MR.K.MAHESH KUMAR AP/AI&DS	CP&DS II-ECE	AP&CE III-CSE	OOAD LAB III-CSE	CP&DS LAB II-ECE	CP&DS II-ECE / PSPP SEC-C	CP&DS LAB II-ECE / PSPP LAB SEC-C	
12	MRS.R.KAVIYA AP/AI&DS	OOAD III-CSE	AP&CE III-CSE	OOAD LAB III-CSE	DS LAB II-CSE	OOAD III-CSE	OOAD LAB III-CSE	
13	MR.S.MADHUKUMAR AP/AI&DS	CN III-CSE	FDS II-CSE	CN LAB III-CSE	DS LAB II-CSE	CN III-CSE	CN LAB III-CSE	

TIME TABLE INCHARGE

HOD

PRINCIPAL

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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 COMPUTER SCIENCE AND ENGINEERING

SUBJECT ALLOCATION - EVEN SEMESTER (2022-2023)

S.NO	NAME OF THE STAFF	SUBJECT WILLINGNESS		LAB WILLINGNESS		SUBJECT ALLOTTED	LAB ALLOTTED	STAFF SIGN
1	MR.S.DHINESH	AI&ML II-CSE	N/W&S II-ECE	AI&ML LAB II-CSE	OS LAB II-CSE	AI&ML II-CSE	AI&ML LAB II-CSE	
2	MR.S.MADHAN	AI III-CSE	ESS II-CSE	MAD III-CSE	AI&ML LAB II-CSE	AI III-CSE		
3	MS.V.RENUKA	ESS II-CSE	N/W&S II-ECE	MAD III-CSE	AI&ML LAB II-CSE	ESS II-CSE		
4	MS.M.DHIVYA	OS II-CSE	ESS II-CSE	OS LAB II-CSE	OS LAB II-CSE	OS II-CSE	OS LAB II-CSE	
5	MS.P.SATHIYA PRIYA	N/W&S II-ECE	IP III-CSE	IP LAB III-CSE	AI&ML LAB II-CSE	N/W&S II-ECE		
6	MS.L.FIRMI SILVIN	IP III-CSE	MC III-CSE	IP LAB III-CSE	MAD III-CSE	IP III-CSE	IP LAB III-CSE	

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

7	MS.K.DHIVYASRI	CD III-CSE	DBMS II-CSE	DBMS LAB II-CSE	OS LAB II-CSE	CD III-CSE			
8	MR.R.GOBINATH	MC III-CSE	DBMS II-CSE	MAD LAB III-CSE	AI&ML LAB II-CSE	MC III-CSE	MAD III-CSE		
9	MRS.K.RAMYA	DBMS II-CSE	N/W&S II-ECE	DBMS LAB II-CSE	MAD LAB III-CSE	DBMS II-CSE	DBMS LAB II-CSE	MINI PROJECT III-CSE	
10	MR.T.MAHESWARAN	DS III-CSE	ST III-CSE	MAD LAB III-CSE	DBMS LAB II-CSE	DS III-CSE			
11	MR.K.MAHESH KUMAR AP/AI&DS	AL II-CSE	ST III-CSE	AL LAB II-CSE	DBMS LAB II-CSE	AL II-CSE	AL LAB II-CSE		
12	MRS.R.KAVIYA AP/AI&DS	TOC II-CSE	ESS II-CSE	MAD LAB III-CSE	IP LAB III-CSE	TOC II-CSE			
13	MR.S.MADHUKUMAR AP/AI&DS	ST III-CSE	N/W&S II-ECE	DBMS LAB II-CSE	MAD III-CSE	ST III-CSE			

TIME TABLE INCHARGE

HOD

PRINCIPAL

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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 ELECTRICALAND ELECTRONICS ENGINEERING

TIME TABLE (REGULATION-2021)

Academic Year: 2022-2023 **Year/Sem: II / IV**

Period / Day	9.30am-10.10 am	10.10 am-10.50am	BREAK(11.10.50am – 11.05am)	11.05am–11.45am	11.45am-12.30pm	LUNCH (12.30pm – 1.30pm)	1.30pm–2.25pm	2.25pm–3.15pm	BREAK(3.15pmm – 3.30pm)	3.30pm–4.30pm
Mon	T&D	LIC		MPMC	EM-II		M&I	T&D		ESS
Tue	MPMC	←		LIC LAB →			M&I	LIC		ESS
Wed	EM-II	T&D		M&I	ESS		← EM-II LAB			→
Thu	LIC	T&D		EM-II	MPMC		← MPMC LAB			→
Fri	M&I	LIC		ESS	EM-II		T&D	LIB		PT

CLASS ADVISOR- A.SURESH AP / EEE

S. NO	SUB. CODE	SUB. NAME	STAFF NAME/ DESIGNATION	TOTAL HOURS
1	GE3451	ENVIRONMENTAL SCIENCES AND SUSTAINABILITY	Ms.P. HEMA AP / S&H	4
2	EE3401	TRANSMISSION AND DISTRIBUTION	Ms.V.THIRIBURASUNDARI AP / EEE	5
3	EE3402	LINEAR ,INTEGRATED CIRCUITS	Mr.T.CHANDRASEKARAN AP / EEE	4
4	EE3403	MEASUREMENT AND INSTRUMENTATION	Mr.D.PAULRAJU AP / EEE	4
5	EE3404	MICROPROCESSOR AND MICROCONTROLLER	Mr.T.CHANDRASEKARAN AP / EEE	4
6	EE3405	ELECTRICALMACHINES -II	Mr.D.PAULRAJU AP / EEE	4
7	EE3411	ELECTRICALMACHINES -II LABORATORY	Ms.V.THIRIBURASUNDARI AP / EEE	3
8	EE3412	LINEAR AND DIGITAL CIRCUITS LABORATORY	Mr.T.CHANDRASEKARAN AP / EEE	3
9	EE3413	MICROPROCESSORS AND MICROCONTROLLERS LABORATORY	Mr.A.SURESH AP / EEE	3

TIME TABLE INCHARGE **HOD/EEE** **PRINCIPAL**

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 ELECTRICALAND ELECTRONICS ENGINEERING

TIME TABLE (REGULATION-2017)

Academic Year: 2022-2023 **Year/Sem: III / VI**

Period / Day	9.30am-10.10 am	10.10 am-10.50am	BREAK(11.10.50am – 11.05am)	11.05am–11.45am	11.45am-12.30pm	LUNCH (12.30pm – 1.30pm)	1.30pm–2.25pm	2.25pm–3.15pm	BREAK(3.15pmm – 3.30pm)	3.30pm–4.30pm
Mon	SSD	PQ		IPR	ES		IPR	P&S		LIB
Tue	P&S	SSD		PQ	PQ		SSD	LIB		ES
Wed	P&S	SSD		IPR	ES		← MINI PROJECT			→
Thu	SSD	IPR		PQ	P&S		← MPMC LAB			→
Fri	IPR	P&S		ES	PQ		← PEDLAB			→

CLASS ADVISOR- D.PAULRAJU AP / EEE

S. NO	SUB. CODE	SUB. NAME	STAFF NAME/ DESIGNATION	TOTAL HOURS
1	EE8601	SOLID STATE DRIVES	Mr.G.SURESH ,ASP / EEE	5
2	EE8602	PROTECTION AND SWITCH GEAR	Mr.A.SURESH AP / EEE	5
3	EE8691	EMBEDDDED SYSTEMS	Mr.T.CHANDRASEKARAN AP / EEE	4
4	GE8075	INTELLECTUAL PROPERTY RIGHTS	Mr.G.SURESH ASP / EEE	5
5	EE8006	POWER QUALITY	Ms.V.THIRIBURASUNDARI AP / EEE	5
6	EE8661	POWER ELECTRONICS AND DRIVESLABORATORY	Mr.D.PAULRAJU AP / EEE	3
7	EE8681	MICROPROCESSORS AND MICROCONTROLLERS LABORATORY	Mr.A.SURESH AP / EEE	3
8	EE8611	MINI PROJECT	Mr.G.SURESH ,ASP / EEE	3

TIME TABLE INCHARGE **HOD/EEE** **PRINCIPAL**

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 ELECTRICALAND ELECTRONICS ENGINEERING

TIME TABLE (REGULATION-2021)

Academic Year: 2022-2023 **Year/Sem: II / III**

Period / Day	9.30am-10.10 am	10.10 am-10.50am	BREAK(11.10.50am – 11.05am)	11.05am–11.45am	11.45am-12.30pm	LUNCH (12.30pm – 1.30pm)	1.30pm–2.25pm	2.25pm–3.15pm	BREAK(3.15pmm – 3.30pm)	3.30pm–4.30pm
Mon	EMF	CP & DS		EMF	EDC		EM-I	PCF		PCF
Tue	CP & DS	EDC		PCF	EM-I		← CP & DS LAB			→
Wed	DLC	EM-I		PD LAB			DLC	EM-I		EMF
Thu	PCF	←		EDC LAB →			DLC	EDC		CP & DS
Fri	DLC	EMF		PCF	EDC		← EM-I LAB			→

CLASSADVISOR – CHANDRASEKARAN T ,AP/EEE

S. NO	SUB. CODE	SUB. NAME	STAFF NAME/ DESIGNATION	TOTAL HOURS
1	MA3303	Probability and Complex Functions	Mr.V.VELLAIYAN,AP / S&H	5
2	EE3301	Electromagnetic Fields	Mr.D.PAULRAJ, AP / EEE	4
3	EE3302	Digital Logic Circuits	Ms.V.THIRIBURASUNDARI AP / EEE	4
4	EC3301	Electron Devices and Circuits	Mr.A.SURESH ,AP / EEE	4
5	EE3303	Electrical Machines - I	Mr.G.SURESH ,ASP / EEE	4
6	CS3353	C Programming and Data Structures	Mr.R.GOPINATH AP / CSE	3
7	EC3311	Electronic Devices and Circuits Laboratory	Mr.A.SURESH,AP / EEE	3
8	EE3311	Electrical Machines Laboratory – I	Ms.V.THIRIBURASUNDARI AP / EEE	3
9	CS3362	C Programming and Data Structures Laboratory	Mr.R.GOPINATH AP / CSE	3
10	GE3361	Professional Development	Mr.S.MATHAN,AP/CSE	2

TIME TABLE INCHARGE **HOD/EEE** **PRINCIPAL**

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

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 ELECTRICALAND ELECTRONICS ENGINEERING

TIME TABLE (REGULATION-2017)

Academic Year: 2022-2023 **Year/Sem: III / V**

Period / Day	9.30am-10.10 am	10.10 am-10.50am	BREAK(11.10.50am – 11.05am)	11.05am–11.45am	11.45am-12.30pm	LUNCH (12.30pm – 1.30pm)	1.30pm–2.25pm	2.25pm–3.15pm	BREAK(3.15pmm – 3.30pm)	3.30pm–4.30pm
Mon	PSA	MPMC		PE	DSP		OOPS	BBI		LIB
Tue	MPMC	OOPS		PSA	PE		← C&I LAB			→
Wed	PE	DSP		BBI	MPMC		← OOPSLAB			→
Thu	PE	DSP		OOPS	PSA		← PCLAB →			BBI
Fri	OOPS	BBI		PSA	DSP		MPMC	DSP		PT

CLASS ADVISOR – PAULRAJU,AP/EEE

S. NO	SUB. CODE	SUB. NAME	STAFF NAME/ DESIGNATION	TOTAL HOURS
1	EE8501	Power System Analysis	Mr.T.CHANDRASEKARAN AP / EEE	4
2	EE8551	Microprocessor And Microcontroller	Mr.D.PAULRAJ,AP / EEE	4
3	EE8552	Power Electronics	Mr.A.SURESH, AP / EEE	4
4	EE8591	Digital Signal Processing	Mr.T.CHANDRASEKARAN AP / EEE	5
5	CS8392	Object Oriented Programming	Ms.P.SATHIYA PRIYA, AP / CSE	4
6	OMD551	Basics Of Biomedical Instrumentation	Ms.V.THIRIBURASUNDARI AP / EEE	4
7	EE8511	Control And Instrumentation Lab	Mr.D.PAULRAJ,AP / EEE	3
8	HS8581	Professional Communication Lab	Ms.MANGAYAGARASI, AP/S&H	2
9	CS8383	Object Oriented Programming Laboratory	Ms.P.SATHIYA PRIYA, AP / CSE	3

TIME TABLE INCHARGE **HOD/EEE** **PRINCIPAL**

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

CMS COLLEGE OF ENGINEERING-NAMAKKAL

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TIME TABLE

ACADEMIC 2022-2023-ODD SEM

SEM / YEAR : V / III **BATCH : 2020-2024**

DAYS	1 9.30 AM TO 10.10. AM	2 10.10 AM TO 10.50 AM	10.50 AM TO 11.05 AM	3 11.05 AM TO 11.45 AM	4 11.45 AM TO 12.30 PM	12.30 PM TO 01.30 PM	5 1.30 PM TO 02.25 PM	6 02.25 PM TO 3.15 PM	3.15 PM TO 3.30 PM	7 3.30 PM TO 4.30 PM
MONDAY	AP &CE	MPMC	Break	TOC	OOAD	Lunch Break	A&NT	OOAD	Break	A&NT
TUESDAY	A&NT	AP &CE		CN	MPMC		OOAD LAB			OOAD LAB
WEDNESDAY	CN	MPMC		OOAD	TOC		N/W LAB			N/W LAB
THURSDAY	TOC	CN		AP &CE	A&NT		MPMC LAB			MPMC LAB
FRIDAY	OOAD	MPMC		A & NT	CN		TOC			AP &CE

S.NO	Subject Name	Faculty Name	Total Hours
1	MA8551-Algebra and Number Theory	Dr.A.Ashok AP/MATHS	5
2	CS8591-Computer Networks	Mr.S.Madhukumar,AP/AI & DS	4
3	EC8691-Microprocessors and Microcontrollers	Mr.D.Paulraj, AP/EEE	4
4	CS8501-Theory of Computation	Ms.K.Ramya. AP/CSE	5
5	CS8592-Object Oriented Analysis and Design	Mrs.R.Kaviya ,AP/AIDS	4
6	OCE551-Air Pollution and Control Engineering	MS.Dhivyasri,AP/CSE	4
7	EC8681-Microprocessors and Microcontrollers Laboratory	Mr.D.Paulraj, AP/EEE	3
8	CS8582-Object Oriented Analysis and Design Laboratory	Mrs.R.KaviyaAP/AIDS	3
9	CS8581-Networks Laboratory	Mr.S.Madhukumar,AP/AI & DS	3

HOD

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

PRINCIPAL

CMS COLLEGE OF ENGINEERING-NAMAKKAL

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TIME TABLE

ACADEMIC 2022-2023-EVEN SEM

SEM / YEAR : IV / II **BATCH : 2021-2025**

DAYS	1 9.30 AM TO 10.10. AM	2 10.10 AM TO 10.50 AM	10.50 AM TO 11.05 AM	3 11.05 AM TO 11.45 AM	4 11.45 AM TO 12.30 PM	12.30 PM TO 01.30 PM	5 1.30 PM TO 02.25 PM	6 02.25 PM TO 3.15 PM	3.15 PM TO 3.30 PM	7 3.30 PM TO 4.30 PM
MONDAY	DBMS	TOC		OS	ESS		AI&ML	AL LAB		LAB
TUESDAY	AI&ML	DBMS		AL	AI&ML		ESS	OS		DBMS
WEDNESDAY	TOC	OS	Break	ESS	DBMS	Lunch Break	AL	AI&ML LAB	Break	LAB
THURSDAY	AL	TOC		ESS	OS		OS LAB			LAB
FRIDAY	TOC	AI&ML		AL	DBMS		DBMS LAB			LAB

S.NO	Subject Name	Faculty Name	Total Hours
1	CS3452-Theory of Computation	Mrs.R.KAVIYA AP/AIDS	4
2	CS3491-Artificial Intelligence and Machine Learning	Mr.S.DHINESH HOD/CSE	4
3	CS3492-Database Management Systems	Ms.K.RAMYA AP/CSE	5
4	CS3401-Algorithms	Mr.K.MAHESHKUMAR HOD/AI&DS	4
5	CS3451-Introduction to Operating Systems	Mr.M.DHIVYA AP/CSE	4
6	GE3451-Environmental Sciences and Sustainability	Ms.V.RENUKA AP/CSE	4
7	CS3461-Operating Systems Laboratory	Mr.M.DHIVYA AP/CSE	3
8	CS3481-Database Management Systems Laboratory	Ms.K.RAMYA AP/CSE	3
9	CS3491-Artificial Intelligence and Machine Learning Lab	Mr.S.DHINESH HOD/CSE	2
10	CS3401-Algorithms Lab	Mr.K.MAHESHKUMAR HOD/AI&DS	2

HOD

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

PRINCIPAL

CMS COLLEGE OF ENGINEERING-NAMAKKAL

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TIME TABLE

ACADEMIC 2022-2023-ODD SEM

SEM / YEAR : III / II **BATCH : 2021-2025**

DAYS	1	2	10.50 AM TO 11.05 AM	3	4	12.30 PM TO 01.30 PM	5	6	3.15 PM TO 3.30 PM	7
	9.30 AM TO 10.10. AM	10.10 AM TO 10.50 AM		11.05 AM TO 11.45 AM	11.45 AM TO 12.30 PM		1.30 PM TO 02.25 PM	02.25 PM TO 3.15 PM		3.30 PM TO 4.30 PM
MONDAY	DM	FDS	Break	DPCO	OOPS	Lunch Break	DS	DM	Break	LIBRARY
TUESDAY	DPCO	DS		DM	DPCO		DATA STRUCTURE LAB			DATA STRUCTURE LAB
WEDNESDAY	FDS	OOPS		PROF DEV			FDS	DM		DPCO
THURSDAY	DS	FDS		OOPS	DPCO		DATA SCIENCE LAB			DATA SCIENCE LAB
FRIDAY	OOPS	DM		DS	FDS		OOPS LAB			OOPS LAB

S.NO	Subject Name	Faculty Name	Total Hours
1	MA3354-Discrete Mathematics	Mrs.B.NIVETHA AP/MATHS	5
2	CS3351-Digital Principles and Computer Organization	Mr.P.PRABHU AP/ECE	5
3	CS3352-Foundations of Data Science	Mrs.FIRMISILVIN AP/CSE	5
4	CS3301-Data Structures	Ms.V.RENUKA AP/CSE	4
5	CS3391-Object Oriented Programming	Mr.M.DHIVYA AP/CSE	4
6	CS3311-Data Structures Laboratory	Ms.V.RENUKA AP/CSE	3
7	CS3381-Object Oriented Programming Laboratory	Mr.M.DHIVYA AP/CSE	3
8	CS3361-Data Science Laboratory	Mrs.FIRMISILVIN AP/CSE	3
9	GE3361-Professional Development	Mr.S.MADAN AP/CSE	2

HOD

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

PRINCIPAL

CMS COLLEGE OF ENGINEERING-NAMAKKAL

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TIME TABLE

ACADEMIC 2022-2023-EVEN SEM

SEM / YEAR : VI / III **BATCH : 2020-2024**

DAYS	1	2		3	4		5	6		7
	9.30 AM TO 10.10. AM	10.10 AM TO 10.50 AM	10.50 AM TO 11.05 AM	11.05 AM TO 11.45 AM	11.45 AM TO 12.30 PM	12.30 PM TO 01.30 PM	1.30 PM TO 02.25 PM	02.25 PM TO 3.15 PM	3.15 PM TO 3.30 PM	3.30 PM TO 4.30 PM
MONDAY	CD	AI		IP	ST		MC	MINI PROJECT		MINI PROJECT
TUESDAY	IP	MAD LAB		MAD LAB			DS	CD		AI
WEDNESDAY	MC	CD	Break	DS	ST	Lunch Break	IP LAB		Break	IP LAB
THURSDAY	DS	IP		MC	CD		ST	DS		LIB
FRIDAY	AI			PC(III-CSE)			IP	MC		PD

S.NO	Subject Name	Faculty Name	Total Hours
1	CS8651-Internet Programming	Mrs.FIRMISILVIN AP/CSE	4
2	CS8691-Artificial Intelligence	Mr.S.MADHAN,AP/CSE	4
3	CS8601-Mobile Computing	Mr.R.GOPINATH AP/CSE	4
4	CS8602-Compiler Design	Ms.L.DHIVYASHRI AP/CSE	4
5	CS8603-Distributed Systems	Mr.T.MAHESWARAN AP/AIDS	4
6	IT8076-Software Testing	Mrs.R.KAVIYA AP/AIDS	3
7	CS8661-Internet Programming Laboratory	Mrs.FIRMISILVIN AP/CSE	3
8	CS8662-Mobile Application Development Laboratory	Mr.R.GOPINATH AP/CSE	3
9	CS8611-Mini Project	Ms.K.RAMYA AP/CSE	2
10	HS8581-Professional Communication	Mr.G.GOWTHAMI AP/ENG	2

HOD

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

PRINCIPAL

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 SCIENCE AND HUMAITIES

ACADEMIC YEAR: 2022-2023(ODD)

INDIVUDAL TIMETABLE

Mr.V.PONNARASAN AP/PHY

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON	SEC E		BREAK	SEC A		LUNCH BREAK		SEC C LAB	BREAK	SEC C LAB
TUES		SEC A					SEC E			SEC C
WED		SEC C			SEC E		SEC A			SEC E
THUR	SEC C			SEC E	SEC A			SEC C		
FRI	SEC A			SEC C				SEC E LAB		SEC E LAB

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

Ms.K.LAKSHMI PRIYA AP/PHYSICS

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON	SEC D		BREAK	SEC B		LUNCH BREAK			BREAK	
TUES		SEC D			SEC B			SEC D LAB		SEC D LAB
WED		SEC B			SEC D			SEC B LAB		SEC B LAB
THUR				SEC B				SEC A LAB		SEC A LAB
FRI	SEC B			SEC D			SEC D			

Ms.P.HEMA AP/CHEMISTRY

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON		SEC D	BREAK	SEC E	SEC C	LUNCH BREAK		SEC C LAB	BREAK	SEC C LAB
TUES	SEC C			SEC D				SEC D LAB		SEC D LAB
WED	SEC E			SEC C			SEC E			
THUR		SEC C		SEC D	SEC E		SEC D			
FRI	SEC D				SEC E			SEC C		

CMS COLLEGE OF ENGINEERING NAMAKKAL

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

DR.M. SATHIYA SEELAN AP/CHEMISTRY

PERIOD	1	2		3	4		5	6		7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am	10.50 am to 11.05 am	11.05 am to 11.45 pm	11.45 pm to 12.30pm	12.30 pm to 01.30 pm	01.30 pm to 02.25 pm	02.25 pm to 03.15 pm	03.15 pm to 3.30 pm	03.30pm to 04.30 pm
DAYS										
MON		SEC B	BREAK			LUNCH BREAK		SEC B	BREAK	
TUES	SEC B			SEC A						SEC A
WED					SEC A			SEC B LAB		SEC B LAB
THUR	SEC A				SEC B			SEC A LAB		SEC A LAB
FRI		SEC A					SEC B	SEC E LAB		SEC E LAB

Mr.R.SASIKUMAR AP/ENGLISH

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON		SEC C	BREAK			LUNCH BREAK	SEC C		BREAK	SEC B
TUES		SEC B					SEC C LAB	SEC C LAB		
WED	SEC B				SEC C					
THUR		SEC B			SEC C		SEC B			
FRI		SEC B LAB		SEC B LAB			SEC C			

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

DR.S.RAMESH AP/ENGLISH

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON			BREAK	SEC D		LUNCH BREAK	SEC B		BREAK	
TUES				SEC C			SEC D			
WED	SEC D				SEC B		SEC D LAB	SEC D LAB		
THUR		SEC D								SEC C
FRI	SEC C				SEC D					SEC B

Mr.V.RAMKUMAR AP/TAMIL

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON		SEC A	BREAK		SEC D	LUNCH BREAK		SEC E	BREAK	
TUES					SEC A					SEC E
WED		SEC D								SEC A
THUR										SEC D
FRI							SEC E			

GMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

Mr.S.DINESH AP/CSE

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME / DAYS	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
MON			BREAK			LUNCH BREAK	SEC A		BREAK	
TUES										
WED	SEC A							SEC A		
THUR		SEC A								
FRI				SEC A				SEC A LAB		SEC A LAB

Mr.K.MAHESHKUMAR AP/CSE

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME / DAYS	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
MON			BREAK	SEC C		LUNCH BREAK			BREAK	
TUES					SEC C					
WED	SEC C							SEC C LAB		SEC C LAB
THUR							SEC C			
FRI		SEC C								

CMS COLLEGE OF ENGINEERING NAMAKKAL

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

Mrs. Ms. B.ARULGNANASELVI AP/CSE

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON	SEC B		BREAK			LUNCH BREAK		SEC D LAB	BREAK	SEC D LAB
TUES	SEC D			SEC B				SEC B LAB		SEC B LAB
WED							SEC B			SEC D
THUR					SEC D			SEC B		
FRI		SEC D			SEC B			SEC D		

Mrs.K.RAMYA AP/CSE

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON			BREAK			LUNCH BREAK	SEC E		BREAK	SEC E
TUES				SEC E LAB	SEC E LAB			SEC E		
WED				SEC E						
THUR										
FRI	SEC E									

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

Mrs.B.NIVETHA AP/MATHS

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON		SEC E	BREAK	SEC B		LUNCH BREAK			BREAK	
TUES	SEC E						SEC B			
WED		SEC E		SEC B						
THUR	SEC B	SEC E					SEC E			SEC B
FRI				SEC E				SEC B		

Mr.V.VELLAIYAN AP/MATHS

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON	SEC C		BREAK			LUNCH BREAK			BREAK	
TUES		SEC C								
WED							SEC C			
THUR				SEC C						
FRI					SEC C					SEC C

CMS COLLEGE OF ENGINEERING NAMAKKAL

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

Mrs.J.MARIA REGILA BABY AP/MATHS

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON			BREAK		SEC A	LUNCH BREAK	SEC D		BREAK	
TUES	SEC A				SEC D		SEC A			
WED		SEC A		SEC D						
THUR	SEC D						SEC A	SEC D		
FRI					SEC A					SEC D

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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 SCIENCE AND HUMANITIES

ACADEMIC YEAR: 2022-2023(EVEN)

INDIVUDAL TIMETABLE

Mr.M.SELVAKUMAR AP/MECH

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON			BREAK	BME (EG)	BME (EG)	LUNCH BREAK			BREAK	
TUES				BME (EG)						
WED		BME (EG)		BME (EG)				CSE (EG)		CSE (EG)
THUR				CSE (EG)						
FRI		CSE (EG)		CSE (EG)				EP LAB (CSE)		EP LAB (CSE)

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

Mr.G.GOPAL AP/MECH

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON			BREAK			LUNCH BREAK			BREAK	
TUES		EEE (BCME)								
WED	EEE (BCME)				EEE(BCME)					
THUR				EEE(BCME)						
FRI							EEE (BCME)			

Mr.D.ASHOKKUMAR AP/MECH

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON			BREAK	EG (ECE)		LUNCH BREAK			BREAK	
TUES	EG (AIDS)							EP LAB (ECE)		EP LAB (ECE)
WED				EP LAB (AIDS)			EG (AIDS)			
THUR	EG (ECE)							EG (AIDS)		EG (AIDS)
FRI							EG (ECE)			

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

Ms.K.LAKSHMI PRIYA AP/PHYSICS

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON			BREAK	PIS		LUNCH BREAK				PIS
TUES	MS	PIS		MS						
WED	MS			PIS			PIS			
THUR	MP						MP			MS
FRI		MS			MP			MP		

Mr.V.PONNARASAN PROF/PHYSICS

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON		PEE(ECE)	BREAK			LUNCH BREAK		PIS	BREAK	
TUES	PEE(EEE)			PEE(EEE)			PEE(ECE)			
WED		PIS		PEE(EEE)	PEE(ECE)					
THUR		PIS			PIS					PEE(EEE)
FRI	PEE(ECE)									

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

Mrs.M.Mangayarkarasi AP/English

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON			BREAK			LUNCH BREAK			BREAK	
TUES	PE-II (ECE)			PE-II (ECE)			TAMIL (BME)			
WED		TAMIL (EEE&MECH)					PE-II (ECE)			
THUR								COMM LAB(ECE)		COMM LAB(ECE)
FRI		TAMIL (BME)						TAMIL (EEE&MECH)		

Mr.V.RAMKUMAR LEC/TAMIL

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON		TAMIL (AIDS)	BREAK			LUNCH BREAK		TAMIL (CSE)	BREAK	
TUES				TAMIL (AIDS)						
WED				TAMIL (ECE)						
THUR							TAMIL (ECE)			
FRI										TAMIL (CSE)

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

Mrs.G.Gowthami AP/English

PERIOD	1	2		3	4		5	6		7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am	10.50 am to 11.05 am	11.05 am to 11.45 pm	11.45 pm to 12.30pm	12.30 pm to 01.30 pm	01.30 pm to 02.25 pm	02.25 pm to 03.15 pm	03.15 pm to 3.30 pm	03.30pm to 04.30 pm
DAYS										
MON	PE-II (EEE& MECH)		BREAK	COMM LAB(AIDS)		LUNCH BREAK		COMM LAB (EEE&MECH)	BREAK	COMM LAB (EEE&MECH)
TUES							PE-II (AI&DS)			PE-II (AI&DS)
WED							PE-II (EEE& MECH)			
THUR				PE-II (AI&DS)	PE-II (EEE& MECH)					
FRI	PE-II (AI&DS)									

MR. R.SASIKUMAR AP/ENGLISH

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON		PE-II (CSE)	BREAK			LUNCH BREAK	PE-II (BME)		BREAK	
TUES	PE-II (CSE)			COMM LAB (CSE)						
WED					PE-II (CSE)					
THUR		PE-II (BME)						COMM LAB (BME)		COMM LAB (BME)
FRI	PE-II (BME)									

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

Mrs.P.HEMA AP/CHEMISTRY

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON			BREAK			LUNCH BREAK			BREAK	
TUES								BS (BME)		
WED	BS (BME)									
THUR				BS (BME)				BS LAB(BME)		BS LAB(BME)
FRI										BS (BME)

Ms. B.ARULGNANASELVI AP/CSE

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON	DSD (AI&DS)		BREAK		P IN C (CSE)	LUNCH BREAK			BREAK	
TUES					DSD (AI&DS)		DSD (AI&DS)	P IN C LAB (CSE)		P IN C LAB (CSE)
WED	P IN C (CSE)	DSD (AI&DS)								
THUR	P IN C (CSE)							P IN C (CSE)		
FRI							DSD (AI&DS)	DSD LAB(AI&DS)		DSD LAB (AI&DS)

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

DR.J. MARIA REJILA BABY AP/MATHS

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON	SNM (BME)		BREAK			LUNCH BREAK			BREAK	
TUES		SNM (BME)			SNM (ECE)					SNM (BME)
WED	SNM (ECE)				SNM (BME)			SNM (ECE)		
THUR				SNM (ECE)						
FRI		SNM (ECE)					SNM (BME)			

Mr.V.VELLIYAN AP/MECH

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON			BREAK			LUNCH BREAK	SNM (EEE&MECH)		BREAK	
TUES							SNM (EEE&MECH)			
WED										
THUR		SNM (EEE&MECH)								
FRI	SNM (EEE&MECH)									SNM (EEE&MECH)

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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 SCIENCE AND HUMANITIES

ACADEMIC YEAR: 2022-2023(EVEN)

INDIVUDAL TIMETABLE

Mr.M.SELVAKUMAR AP/MECH

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON			BREAK	BME (EG)	BME (EG)	LUNCH BREAK			BREAK	
TUES				BME (EG)						
WED		BME (EG)		BME (EG)				CSE (EG)		CSE (EG)
THUR				CSE (EG)						
FRI		CSE (EG)		CSE (EG)				EP LAB (CSE)		EP LAB (CSE)

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

Mr.G.GOPAL AP/MECH

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON			BREAK			LUNCH BREAK			BREAK	
TUES		EEE (BCME)								
WED	EEE (BCME)				EEE(BCME)					
THUR				EEE(BCME)						
FRI							EEE (BCME)			

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

Mr.D.ASHOKKUMAR AP/MECH

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON			BREAK	EG (ECE)		LUNCH BREAK			BREAK	
TUES	EG (AIDS)							EP LAB (ECE)		EP LAB (ECE)
WED				EP LAB (AIDS)			EG (AIDS)			
THUR	EG (ECE)							EG (AIDS)		EG (AIDS)
FRI							EG (ECE)			

CMS COLLEGE OF ENGINEERING NAMAKKAL

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

Ms.K.LAKSHMI PRIYA AP/PHYSICS

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME / DAYS	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
MON			BREAK	PIS		LUNCH BREAK				PIS
TUES	MS	PIS		MS						
WED	MS			PIS			PIS			
THUR	MP						MP			MS
FRI		MS			MP			MP		

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

Mr.V.PONNARASAN PROF/PHYSIC

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON		PEE(ECE)	BREAK			LUNCH BREAK		PIS	BREAK	
TUES	PEE(EEE)			PEE(EEE)			PEE(ECE)			
WED		PIS		PEE(EEE)	PEE(ECE)					
THUR		PIS			PIS					PEE(EEE)
FRI	PEE(ECE)									

Mrs.M.Mangayarkarasi AP/English

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON			BREAK			LUNCH BREAK			BREAK	
TUES	PE-II (ECE)			PE-II (ECE)			TAMIL (BME)			
WED		TAMIL (EEE&MECH)					PE-II (ECE)			
THUR								COMM LAB(ECE)		COMM LAB(ECE)
FRI		TAMIL (BME)						TAMIL (EEE&MECH)		

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

Mr.V.RAMKUMAR LEC/TAMIL

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON		TAMIL (AIDS)	BREAK			LUNCH BREAK		TAMIL (CSE)	BREAK	
TUES				TAMIL (AIDS)						
WED				TAMIL (ECE)						
THUR							TAMIL (ECE)			
FRI										TAMIL (CSE)

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

Mrs.G.Gowthami AP/English

PERIOD	1	2		3	4		5	6		7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am	10.50 am to 11.05 am	11.05 am to 11.45 pm	11.45 pm to 12.30pm	12.30 pm to 01.30 pm	01.30 pm to 02.25 pm	02.25 pm to 03.15 pm	03.15 pm to 3.30 pm	03.30pm to 04.30 pm
DAYS										
MON	PE-II (EEE& MECH)		BREAK	COMM LAB(AIDS)		LUNCH BREAK		COMM LAB (EEE&MECH)	BREAK	COMM LAB (EEE&MECH)
TUES							PE-II (AI&DS)			PE-II (AI&DS)
WED							PE-II (EEE& MECH)			
THUR				PE-II (AI&DS)	PE-II (EEE& MECH)					
FRI	PE-II (AI&DS)									

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

MR. R.SASIKUMAR AP/ENGLISH

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON		PE-II (CSE)	BREAK			LUNCH BREAK	PE-II (BME)		BREAK	
TUES	PE-II (CSE)			COMM LAB (CSE)						
WED					PE-II (CSE)					
THUR		PE-II (BME)						COMM LAB (BME)		COMM LAB (BME)
FRI	PE-II (BME)									

Mrs.P.HEMA AP/CHEMISTRY

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON			BREAK			LUNCH BREAK			BREAK	
TUES								BS (BME)		
WED	BS (BME)									
THUR				BS (BME)				BS LAB(BME)		BS LAB(BME)
FRI										BS (BME)

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

DR.J. MARIA REJILA BABY AP/MATHS

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON	SNM (BME)		BREAK			LUNCH BREAK			BREAK	
TUES		SNM (BME)			SNM (ECE)					SNM (BME)
WED	SNM (ECE)				SNM (BME)			SNM (ECE)		
THUR				SNM (ECE)						
FRI		SNM (ECE)					SNM (BME)			

Mr.V.VELLIYAN AP/MECH

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON			BREAK			LUNCH BREAK	SNM (EEE&MECH)		BREAK	
TUES							SNM (EEE&MECH)			
WED										
THUR		SNM (EEE&MECH)								
FRI	SNM (EEE&MECH)									SNM (EEE&MECH)

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

Mr.K.PERIYASAMY AP/ECE

	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME / DAYS	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
MON	CA (ECE)		BREAK			LUNCH BREAK		CA LAB (ECE)	BREAK	
TUES										
WED		CA (ECE)								CA (ECE)
THUR					CA (ECE)		EP LAB (MECH)			
FRI				CA (ECE)						

Mr.Soundrapandian AP/ECE

	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME / DAYS	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
MON	CA (ECE)		BREAK			LUNCH BREAK			BREAK	
TUES										
WED		CA (ECE)								CA (ECE)
THUR					CA (ECE)					
FRI				CA (ECE)						

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

Mrs.B.NIVETHA AP/MATHS

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON	SNM (CSE)		BREAK			LUNCH BREAK	SNM (AI&DS)		BREAK	
TUES							SNM (CSE)			
WED										SNM (AI&DS)
THUR	SNM (AI&DS)	SNM (CSE)			SNM (AI&DS)		SNM (CSE)			
FRI		SNM (AI&DS)			SNM (AI&DS)					SNM (CSE)

CMS COLLEGE OF ENGINEERING NAMAKKAL

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

Ms. B.ARULGNANASELVI AP/CSE

PERIOD	1	2	10.50 am to 11.05 am	3	4	12.30 pm to 01.30 pm	5	6	03.15 pm to 3.30 pm	7
TIME	9.30 am to 10.10 am	10.10 am to 10.50 am		11.05 am to 11.45 pm	11.45 pm to 12.30pm		01.30 pm to 02.25 pm	02.25 pm to 03.15 pm		03.30pm to 04.30 pm
DAYS										
MON	DSD (AI&DS)		BREAK		P IN C (CSE)	LUNCH BREAK			BREAK	
TUES					DSD (AI&DS)		DSD (AI&DS)	P IN C LAB (CSE)		P IN C LAB (CSE)
WED	P IN C (CSE)	DSD (AI&DS)								
THUR	P IN C (CSE)							P IN C (CSE)		
FRI							DSD (AI&DS)	DSD LAB(AI&DS)		DSD LAB (AI&DS)

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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 COMPUTER SCIENCE AND ENGINEERING

COURSE PLAN

Name of the Faculty	Mrs.L.FIRMISILVIN			
Designation/Department	AP/CSE			
Course Code/Name	CS3352-Foundations of Data Science			
Year/Section/Department	II/CSE			
Credits Details	L:3	T: 0	P: 0	C:3
Total Contact Hours Required	60			

Syllabus:

UNIT I INTRODUCTION	**9**
Data Science: Benefits and uses – facets of data - Data Science Process: Overview – Defining research goals – Retrieving data – Data preparation - Exploratory Data analysis – build the model– presenting findings and building applications - Data Mining - Data Warehousing – Basic Statistical descriptions of Data	

UNIT II DESCRIBING DATA	**9**
Types of Data - Types of Variables -Describing Data with Tables and Graphs –Describing Data with Averages - Describing Variability - Normal Distributions and Standard (z) Scores	

UNIT III DESCRIBING RELATIONSHIPS	**9**
Correlation –Scatter plots –correlation coefficient for quantitative data –computational formula for correlation coefficient – Regression –regression line –least squares regression line – Standard error of estimate – interpretation of r2 –multiple regression equations –regression towards the mean	

CMS COLLEGE OF ENGINEERING NAMAKKAL

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

UNIT IV PYTHON LIBRARIES FOR DATA WRANGLING	9
Basics of Numpy arrays –aggregations –computations on arrays –comparisons, masks, boolean logic – fancy indexing – structured arrays – Data manipulation with Pandas – data indexing and selection – operating on data – missing data – Hierarchical indexing – combining datasets – aggregation and grouping – pivot tables	

UNIT V DATA VISUALIZATION	9
Importing Matplotlib – Line plots – Scatter plots – visualizing errors – density and contour plots – Histograms – legends – colors – subplots – text and annotation – customization – three dimensional plotting - Geographic Data with Basemap - Visualization with Seaborn.	

Objective:

The student should be made to:

- To understand the data science fundamentals and process.
- To learn to describe the data for the data science process.
- To learn to describe the relationship between data.
- To utilize the Python libraries for Data Wrangling.
- To present and interpret data using visualization libraries in Python

Text Book:

T1. David Cielen, Arno D. B. Meysman, and Mohamed Ali, "Introducing Data Science", Manning Publications, 2016. (Unit I)

T2. Robert S. Witte and John S. Witte, "Statistics", Eleventh Edition, Wiley Publications, 2017. (Units II and III)

T3. Jake VanderPlas, "Python Data Science Handbook", O'Reilly, 2016. (Units IV and V)

T4.I.A.Dhotre,"Foundations of Data Science",Technical publications,2022

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

Reference Book:

R1. Allen B. Downey, "Think Stats: Exploratory Data Analysis in Python", Green Tea Press,2014

Website:

https://www.eduengineering.net/src/Subject/Semester-4/FDSA

Online Mode of Study (if Any):

Nil

Course Plan:

Topic No.	Topic	Books for Reference	Page No.	Teaching methodology	No. of periods Required	Cumulative No. of. Periods
UNIT I						
1	Data Science: Benefits and uses	T4	1-6	Black Board	1	1
2	Facets of data	T4	1-7	Black Board	1	1
3	Data Science Process: Overview – Defining research goals	T4	1-13	Black Board	1	1
4	Retrieving data	T4	1-15	Black Board	1	1
5	Data preparation	T4	1-17	Black Board	1	2
6	Exploratory Data analysis	T4	1-23	Black Board	2	2

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

7	Build the model– presenting findings and building applications	T4	1-26	Black Board	2	2
8	Data Mining ,Data Warehousing	T4	1-28	Black Board	1	1
9	Basic Statistical descriptions of Data	T4	1-39	Black Board	1	1
10	TUTORIAL	T4	1-45	Black Board	2	12
11	Review Questions	T4	1-45	Black Board	1	13
Outcome of Unit I CO1 - Define the data science process						
UNIT II						
12	Types of Data, Types of Variables	T4	2-2,2-7	Black Board	1	14
14	Describing Data with Tables and Graphs	T4	2-11	Black Board	1	15
15	Describing Data with Averages	T4	2-25	Black Board	1	16
16	Describing Variability	T4	2-26	Black Board	1	17
17	Normal Distributions and Standard (z) Scores	T4	2-30	Black Board	1	18
18	TUTORIAL	T4	2-32	Black Board	1	19
19	Review Questions	T4	2-33	Black Board	1	20

CMS COLLEGE OF ENGINEERING NAMAKKAL

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

Outcome of Unit II

CO2: Understand different types of data description for data science process

UNIT III

20	Correlation	T4	3-2	Black Board	1	22
21	Scatter plots	T4	3-9	Black Board	1	23
22	correlation coefficient for quantitative data	T4	3-11	Black Board	1	24
23	computational formula for correlation coefficient	T4	3-13	Black Board	1	25
24	Regression	T4	3-17	Black Board	2	27
25	Regression line ,least squares regression line	T4	3-19	Black Board	2	29
26	Standard error of estimate	T4	3-21	Black Board	1	30
27	Interpretation of r2, Multiple regression equations	T4	3-24	Black Board	1	31
28	Regression towards the mean	T4	3-26	Black Board	1	32
29	Tutorial	T4	3-27	Black Board	1	33
29	Review Questions	T4	3-27	Black Board	1	34

Outcome of Unit III

CO3: Gain knowledge on relationships between data

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

UNIT IV						
30	Basics Of Numpy Arrays	T4	4-6	Black Board	1	35
31	Computations On Arrays	T4	4-13	Black Board	1	36
32	Comparisons, Masks, Boolean Logic	T4	4-17	Black Board	1	37
33	Fancy Indexing, Structured Arrays	T4	4-19	Black Board	1	38
35	Data Manipulation With Pandas	T4	4-21	Black Board	1	39
36	Data Indexing And Selection, Operating On Data	T4	4-24	Black Board	1	40
38	Missing Data – Hierarchical Indexing	T4	4-28	Black Board	1	41
39	Combining Datasets – Aggregation And Grouping – Pivot Tables	T4	4-31	Black Board	1	42
40	Tutorial	T4	4-35	Black Board	1	43
41	Review Questions	T4	4-35	Black Board	1	44

Outcome of Unit IV

CO4 - To utilize the Python libraries for Data Wrangling

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

UNIT V						
42	Importing Matplotlib	T4	5-2	Black Board	1	45
43	Line plots	T4	5-3	Black Board	1	46
44	Scatter plots	T4	5-12	Black Board	1	47
45	visualizing errors	T4	5-14	Black Board	1	48
46	density and contour plots , Histograms	T4	5-18	Black Board	1	49
47	legends ,colors , subplots	T4	5-22	Black Board	1	50
48	text and annotation	T4	5-27	Black Board	1	51
49	customization – three dimensional plotting .	T4	5-29	Black Board	1	52
50	Geographic Data with Basemap - Visualization with Seaborn.	T4	5-34	Black Board	1	53
51	Problems	T4	5-37	Black Board	1	54
52	Review Questions	T4	5-38	Black Board	1	55

Outcome of Unit V

CO5: Apply visualization Libraries in Python to interpret and explore data

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

Course Outcome:

At the end of course, Students should be able to do:

CO1: Define the data science process

CO2: Understand different types of data description for data science process

CO3: Gain knowledge on relationships between data

CO4: Use the Python Libraries for Data Wrangling

CO5: Apply visualization Libraries in Python to interpret and explore data

Course Outcome Vs Program Outcome Mapping:

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO 1	3	3	3	3	3	2	0	0	2	2	2	2
CO 2	3	3	3	3	3	2	0	0	2	2	2	2
CO 3	3	3	3	3	3	2	0	0	2	2	2	2
CO 4	3	3	3	3	3	2	0	0	2	2	2	2
CO 5	3	3	3	3	3	2	0	0	2	2	2	2

Content beyond Syllabus:

Assignment:

Assign ment	Batch Details	Register Number	Total Number	Mode of Assignment Writen/Semi nar/PPT	Topics
I	Batch - I	620521104001,06,08, 09,11,12,13,16,17,19	10	Written	Data preparation and Exploratory Data analysis
	Batch - II	620521104020,,21,22 ,25,26,27,28,	7	Written	Data Mining ,Data Warehousing

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

	Batch - III	620521104301,302,303,304,306,308,310,311,312,313,314	11	Written	Build the model– presenting findings and building applications
II	Batch - I	620521104001,06.08.09,11,12,13,16,17,19	10	Written	Correlation coefficient for quantitative data
	Batch - II	620521104020,22,25,26,27,28,	7	Written	Regression ,regression line ,least squares regression line.
	Batch - III	620521104301,302,303,304,306,308,311,312,313,314	11	Written	Interpretation of r2
III	Batch - I	620521104001,06.08.09,11,12,13,16,17,19	10	Written	Data manipulation with Pandas
	Batch - II	620521104020,22,25,26,27,28,	7	Written	Importing Matplotlib ,Line plots ,Scatter plots ,visualizing errors
	Batch - III	620521104301,302,303,304,306,308,311,312,313,314	11	Written	Visualization with Seaborn

University Questions:

UNIT-1	1. Explain the facets of data 2. Briefly explain the different steps of Data Science Process 3. Explain in detail about data cleaning, integrating and transforming data in Data Science Process 4. Explain in detail about data cleaning, integrating and transforming data in Data Science Process 5. Explain in detail about data cleaning, integrating and transforming data in Data Science Process 6. Define Statistical description of data and explain its properties 7. Explain the data mining function and list its application 8. Explain the data warehouse architecture with neat diagram. .

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

UNIT-2	1. How to variate the data with its types and mention its advantages 2. Write notes on scale measurement with its types and give example for each. 3. Describe about the types of variable and is characteristic with example on each. 4. What are the ways of describing data with table for quantitative data. 5. How to describe the quantitative data and qualitative data using diagrammatic description . 6. Explain about the variability with data . 7. Write short notes of normal distribution and z scores
UNIT-3	1. Define correlation. list its types with example and diagrammatic representation. 2. Explain the concept of finding correlation coefficient using karl pearson method. With example. 3. Explain the concept of finding correlation coefficient spearman's rank method. With example. 4. Describe about coefficient correlation of graphical method scatter plots. 5. Write short notes on regression of lone plotting two points. 6. List the characteristic of R^2 .Problems related to karl pearson methods
UNIT-4	1. List the iterative steps used for making up of data wrangaling 2. Describe the basics of numpy of arrays manipulation. 3. Explain aggregation and computation of arrays. 4. Write short notes on comparisons masks and Boolean logic. 5. Briefly about structured arrays. 6. What is pandas. how data manipulation happens with pandas. 7. Explain about hierarchical indexing. 8. Explain pivot tables work with pandas module
UNIT-5	1. Explain about matplotlib, usages and how its been created 2. Briefly discuss about scatter plots using matplot lib modules. 3. Describe the visualizing errors plots for line using matplotlib. 4. How to diplay 3D data in 2D using contour plots 5. Write short notes on .a)Histogram b) Legend c)Subplots d) Text and annotation Customization 6. Briefly about Three dimensional plotting 7. What is basemaps? List the objects used in base maps 8. Explain about visualization with seaborn.

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

Submission Details:

Phase 1(Before AT 1)		Phase 2 (Before AT 2)		Phase 3 (Before AT 3)	
Assignment 1	UNIT-1&2	Assignment 2	UNIT-3&4	Assignment 3	UNIT-5
10.09.2022	13.09.2022	26.09.2022	20.10.2022	11.11.2022	2.12.2022

Prepared By (subject in charge)

Verified By (HOD)

Approved By (Principal)

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

CMS COLLEGE OF ENGINEERING

(Approved by the AICTE New Delhi and affiliated to the Anna University)

CMS NAGAR, ERNAPURAM (PO), NAMAKKAL – 637 003.

Phone: 98433 46065. Website: cmsgroupofinstitutions.in.

E.mail: cmscollegeofengg@gmail.com, principal602@gmail.com.

EXAM CELL

ACADEMIC YEAR: 2022-2023 (EVEN SEM)

INTERNAL TEST-I TIME TABLE

CMSCE/EXAMCELL/EVEN/2022-2023/007 **DATE: 23.02.2023**

CIRCULAR

It is informed that the Internal Test – I for Second year UG Students will be scheduled from 27.02.2023 to 4.03.2023.

INTERNAL ASSESSMENT TEST–I SCHEDULE FOR II-YEAR (IV-SEM)

DATE	CSE	ECE	EEE	MECH
27.02.2023	Theory of Computation	Electromagnetic Fields	Electrical Machines -II	Theory of Machines
28.02.2023	Artificial Intelligence and Machine Learning	Networks and Security	Transmission and Distribution	Hydraulics and Pneumatics
01.03.2023	Database Management Systems	Linear Integrated Circuits	Linear Integrated Circuits	Manufacturing Technology
02.03.2023	Algorithms	Digital Signal Processing	Measurements and Instrumentation	Strength of Materials
03.03.2023	Introduction to Operating Systems	Communication Systems	Microprocessor and Microcontroller	Strength Of Materials
04.03.2023	Environmental Sciences and Sustainability	Environmental Sciences and Sustainability	Environmental Sciences and Sustainability	Environmental Sciences and Sustainability

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

CMS COLLEGE OF ENGINEERING

(Approved by the AICTE New Delhi and affiliated to the Anna University)

CMS NAGAR, ERNAPURAM (PO), NAMAKKAL – 637 003.

Phone: 98433 46065. Website: cmsgroupofinstitutions.in.

E.mail: cmscollegeofengg@gmail.com, principal602@gmail.com.

INTERNAL ASSESSMENT TEST–I SCHEDULE FOR III-YEAR (VI-SEM)

DATE	CSE	ECE	EEE	MECH
27.02.2023	Internet Programming	Microprocessors and Microcontrollers	Solid State Drives	Design of Transmission Systems
28.02.2023	Artificial Intelligence	VLSI Design	Protection and Switchgear	Computer Aided Design and Manufacturing
01.03.2023	Mobile Computing	Wireless Communication	Embedded Systems	Heat and Mass Transfer
02.03.2023	Compiler Design	Principles of Management	Intellectual Property Rights	Finite Element Analysis
03.03.2023	Distributed Systems	Transmission Lines and RF Systems	Power quality	Hydraulics and Pneumatics
04.03.2023	Software Testing	Wireless Networks	-	Welding Technology

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

CMS COLLEGE OF ENGINEERING

(Approved by the AICTE New Delhi and affiliated to the Anna University)

CMS NAGAR, ERNAPURAM (PO), NAMAKKAL – 637 003.

Phone: 98433 46065. Website: cmsgroupofinstitutions.in.

E.mail: cmscollegeofengg@gmail.com, principal602@gmail.com.

- The students are required to be present outside the examination hall exactly 15 minutes before the commencing of the examination. Students will only be allowed to enter the examination hall 10 minutes prior to commencing the examination.
- Students are not permitted to leave the examination hall during the exam time.
- Students will not be allowed into the examination hall without presenting an appropriate photo identity card.
- Students should bring their own pencils, pens, erasers, rulers, calculators, and any other tools required for the examination.

Faculty members are requested to follow the following question paper pattern for the internal tests.

Questions Paper Pattern

Part - A 5 x2: 10 Marks (Answer All the Questions)

Part –B 2X13:26 Marks(Answer All the Questions Either or Choice)

Part –C 1x14: 14 Marks (Answer All the Questions Either or Choice)

Department Examcell Co-ordinator should submit the Question paper (Soft copy& hard copy) on or before 24.02.2023,03.30 PM.

Syllabus: 2 Units

Exam Timings: AN Session:03.00 PM-04.30PM

EXCAM CELL COORDINATOR

PRINCIPAL

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

CMS COLLEGE OF ENGINEERING

(Approved by the AICTE New Delhi and affiliated to the Anna University)

CMS NAGAR, ERNAPURAM (PO), NAMAKKAL – 637 003.

Phone: 98433 46065. Website: cmsgroupofinstitutions.in.

E.mail: cmscollegeofengg@gmail.com, principal602@gmail.com.

EXAM CELL

ACADEMIC YEAR: 2022-2023 (EVEN SEM)

INTERNAL TEST-II TIME TABLE

CMSCE/EXAMCELL/EVEN/2022-2023/008 **DATE: 23.03.2023**

CIRCULAR

It is informed that the Internal Test – II for Second year UG Students will be scheduled from 27.03.2023 to 01.04.2023.

INTERNAL ASSESSMENT TEST–II SCHEDULE FOR II-YEAR (IV-SEM)

DATE	CSE	ECE	EEE	MECH
27.03.2023	Theory of Computation	Electromagnetic Fields	Electrical Machines -II	Theory of Machines
28.03.2023	Artificial Intelligence and Machine Learning	Networks and Security	Transmission and Distribution	Hydraulics and Pneumatics
29.03.2023	Database Management Systems	Linear Integrated Circuits	Linear Integrated Circuits	Manufacturing Technology
30.03.2023	Algorithms	Digital Signal Processing	Measurements and Instrumentation	Strength of Materials
31.03.2023	Introduction to Operating Systems	Communication Systems	Microprocessor and Microcontroller	Strength Of Materials
01.04.2023	Environmental Sciences and Sustainability	Environmental Sciences and Sustainability	Environmental Sciences and Sustainability	Environmental Sciences and Sustainability

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

CMS COLLEGE OF ENGINEERING

(Approved by the AICTE New Delhi and affiliated to the Anna University)

CMS NAGAR, ERNAPURAM (PO), NAMAKKAL – 637 003.

Phone: 98433 46065. Website: cmsgroupofinstitutions.in.

E.mail: cmscollegeofengg@gmail.com, principal602@gmail.com.

INTERNAL ASSESSMENT TEST–II SCHEDULE FOR III-YEAR (VI-SEM)

DATE	CSE	ECE	EEE	MECH
27.03.2023	Internet Programming	Microprocessors and Microcontrollers	Solid State Drives	Design of Transmission Systems
28.03.2023	Artificial Intelligence	VLSI Design	Protection and Switchgear	Computer Aided Design and Manufacturing
29.03.2023	Mobile Computing	Wireless Communication	Embedded Systems	Heat and Mass Transfer
30.03.2023	Compiler Design	Principles of Management	Intellectual Property Rights	Finite Element Analysis
31.03.2023	Distributed Systems	Transmission Lines and RF Systems	Power quality	Hydraulics and Pneumatics
01.04.2023	Software Testing	Wireless Networks	-	Welding Technology

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

CMS COLLEGE OF ENGINEERING

(Approved by the AICTE New Delhi and affiliated to the Anna University)

CMS NAGAR, ERNAPURAM (PO), NAMAKKAL – 637 003.

Phone: 98433 46065. Website: cmsgroupofinstitutions.in.

E.mail: cmscollegeofengg@gmail.com, principal602@gmail.com.

- The students are required to be present outside the examination hall exactly 15 minutes before the commencing of the examination. Students will only be allowed to enter the examination hall 10 minutes prior to commencing the examination.
- Students are not permitted to leave the examination hall during the exam time.
- Students will not be allowed into the examination hall without presenting an appropriate photo identity card.
- Students should bring their own pencils, pens, erasers, rulers, calculators, and any other tools required for the examination.

Faculty members are requested to follow the following question paper pattern for the internal tests.

Questions Paper Pattern

Part - A 5 x2: 10 Marks (Answer All the Questions)

Part –B 2X13:26 Marks(Answer All the Questions Either or Choice)

Part –C 1x14: 14 Marks (Answer All the Questions Either or Choice)

Department Examcell Co-ordinator should submit the Question paper (Soft copy& hard copy) on or before 25.03.2023,03.30 PM.

Syllabus: 2 Units

Exam Timings: AN Session:03.00 PM-04.30PM

EXCAM CELL COORDINATOR

PRINCIPAL

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

CMS COLLEGE OF ENGINEERING

(Approved by the AICTE New Delhi and affiliated to the Anna University)

CMS NAGAR, ERNAPURAM (PO), NAMAKKAL – 637 003.

Phone: 98433 46065. Website: cmsgroupofinstitutions.in.

E.mail: cmscollegeofengg@gmail.com, principal602@gmail.com.

Dfgdfgd

EXAM CELL

ACADEMIC YEAR: 2022-2023 (EVEN SEM)

MODEL TEST-I TIME TABLE

CMSCE/EXAMCELL/EVEN/2022-2023/009 **DATE: 17.04.2023**

CIRCULAR

It is informed that the Model Test - I for Second year UG Students will be scheduled from 24.04.2023 to 29.04.2023.

MODEL TEST I SCHEDULE FOR II-YEAR (IV-SEM)

DATE	CSE	ECE	EEE	MECH
24.04.2023	Theory of Computation	Electromagnetic Fields	Electrical Machines -II	Theory of Machines
25.04.2023	Artificial Intelligence and Machine Learning	Networks and Security	Transmission and Distribution	Hydraulics and Pneumatics
26.04.2023	Database Management Systems	Linear Integrated Circuits	Linear Integrated Circuits	Manufacturing Technology
27.04.2023	Algorithms	Digital Signal Processing	Measurements and Instrumentation	Strength of Materials
28.04.2023	Introduction to Operating Systems	Communication Systems	Microprocessor and Microcontroller	Strength Of Materials
29.04.2023	Environmental Sciences and Sustainability	Environmental Sciences and Sustainability	Environmental Sciences and Sustainability	Environmental Sciences and Sustainability

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

CMS COLLEGE OF ENGINEERING

(Approved by the AICTE New Delhi and affiliated to the Anna University)

CMS NAGAR, ERNAPURAM (PO), NAMAKKAL – 637 003.

Phone: 98433 46065. Website: cmsgroupofinstitutions.in.

E.mail: cmscollegeofengg@gmail.com, principal602@gmail.com.

MODEL TEST – I SCHEDULE FOR III-YEAR (VI-SEM)

DATE	CSE	ECE	EEE	MECH
24.04.2023	Internet Programming	Microprocessors and Microcontrollers	Solid State Drives	Design of Transmission Systems
25.04.2023	Artificial Intelligence	VLSI Design	Protection and Switchgear	Computer Aided Design and Manufacturing
26.04.2023	Mobile Computing	Wireless Communication	Embedded Systems	Heat and Mass Transfer
27.04.2023	Compiler Design	Principles of Management	Intellectual Property Rights	Finite Element Analysis
28.04.2023	Distributed Systems	Transmission Lines and RF Systems	Power quality	Hydraulics and Pneumatics
29.04.2023	Software Testing	Wireless Networks	-	Welding Technology

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

CMS COLLEGE OF ENGINEERING

(Approved by the AICTE New Delhi and affiliated to the Anna University)

CMS NAGAR, ERNAPURAM (PO), NAMAKKAL – 637 003.

Phone: 98433 46065. Website: cmsgroupofinstitutions.in.

E.mail: cmscollegeofengg@gmail.com, principal602@gmail.com.

- The students are required to be present outside the examination hall exactly 15 minutes before the commencing of the examination. Students will only be allowed to enter the examination hall 10 minutes prior to commencing the examination.
- Students are not permitted to leave the examination hall during the exam time.
- Students will not be allowed into the examination hall without presenting an appropriate photo identity card.
- Students should bring their own pencils, pens, erasers, rulers, calculators, and any other tools required for the examination.

Faculty members are requested to follow the following question paper pattern for the model tests.

Questions Paper Pattern

Part - A 10 x2: 20 Marks (Answer All the Questions)

Part –B 5X13:65 Marks(Answer All the Questions Either or Choice)

Part –C 1x15: 15 Marks (Answer All the Questions Either or Choice)

Department Examcell Co-ordinator should submit the Question paper (Soft copy& hard copy) on or before 19.04.2023,03.30 PM.

Syllabus: 5 Units

Exam Timings: AN Session:01.30 PM-04.30PM

EXCAM CELL COORDINATOR

PRINCIPAL

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

CMS COLLEGE OF ENGINEERING, NAMAKKAL
DEPARTMENT OF CSE
INTERNAL EXAM - I

27/2/23

Year/Semester : II/ IV Branch: CSE
Subject Code & Title: CS3452 – THEORY OF COMPUTATION
Time : 1.30 Hours Max. Marks : 50 Marks

Part – A (Answer any Five) (5* 2 = 10)

1. Define the epsilon transition.
2. Define NFA.
3. Name any four closure properties of regular expression .
4. Construct a RE to NFA? (a+b)*+(abc)*
5. What is meant by symbol in computation language.
6. Differentiate Kleene Closure and Positive Closure.
7. Write regular expression to recognize the set of strings over {a,b} having string starting with ab.

Part – B

8. (a) Explain the equivalence of NFA with DFA. (08)

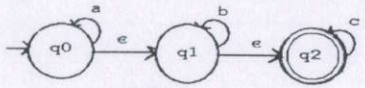
(Or)

(b) Give DFA's accepting the following languages over the alphabet{0,1} a)the set of all strings ending in 011 b)the set of substring with 101. (08)

9. (i) **Convert** the following NFA to its equivalent DFA.(p,0)->{p,q} , (p,1)->{p} , (q,0)->{r}, (q,1)->{r},(r,0)->{s},(r,1)->{}, (s,0)->{s} , (s,1)->{s} (16)

(OR)

10. (b) (a) (i) Construct a NFA without € moves from NFA with £ moves (16)



(16)

10. (a) Find the solution for the problem of NFA with ε transition to DFA directly . (16)

	a	b	c	ε
p	{p}	{q}	{r}	Ø
q	{q}	{r}	Ø	{p}
*r	{r}	Ø	{p}	{q}

(OR)

(b) i)) (i) **Convert** the following NFA to its equivalent DFA. (07)

	0	1
P	{Q,S}	{Q}
*Q	{R}	{Q,R}
R	{S}	{P}
*S	Ø	{P}

ii) Construct an NFA equivalent to the following regular expression. ((abc) + (ab+ac)*)c. (09)

********** ALL THE BEST **********

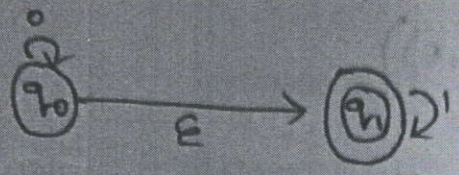
Subject Incharge HOD Exam Cell Co-Ordinator Principal

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

Problems :

NFA with ε to NFA without ε

(i)



Soln :-

Step 1 : ε-closure $(q_0) = \{q_0, q_1\}$

ε-closure $(q_1) = \{q_1\}$

Step 2 :

$\delta'(q_0, 0) = \varepsilon$-closure $(\delta(\delta'(q_0, \varepsilon), 0))$

$= \varepsilon$-closure $(\delta(\varepsilon$-closure $(q_0), 0))$

$= \varepsilon$-closure $(\delta(q_0, q_1), 0)$

$= \varepsilon$-closure $(\delta(q_0, 0) \cup \delta(q_1, 0))$

$= \varepsilon$-closure $(q_0 \cup \phi)$

$= \{q_0, q_1\}$

$\delta'(q_0, 1) = \varepsilon$-closure $(\delta(\delta'(q_0, \varepsilon), 1))$

$= \varepsilon$-closure $(\delta(\varepsilon$-closure $q_0), 1)$

$= \varepsilon$-closure $(\delta(q_0, q_1), 1)$

$= \varepsilon$-closure $(\delta(q_0, 1) \cup \delta(q_1, 1))$

$= \varepsilon$-closure $(\phi \cup q_1)$

$= \{q_1\}$

$\delta'(q_1, 0) = \varepsilon\text{-closure}(\delta(\delta'(q_1, \varepsilon), 0))$

$= \varepsilon\text{-closure}(\delta(\varepsilon\text{-closure } q_1), 0)$

$= \varepsilon\text{-closure}(\delta(q_1, 0))$

$= \varepsilon\text{-closure}(\phi)$

$= \{\phi\}$

$\delta'(q_1, 1) = \varepsilon\text{-closure}(\delta(\delta'(q_1, \varepsilon), 1))$

$= \varepsilon\text{-closure}(\delta(\varepsilon\text{-closure } q_1), 1)$

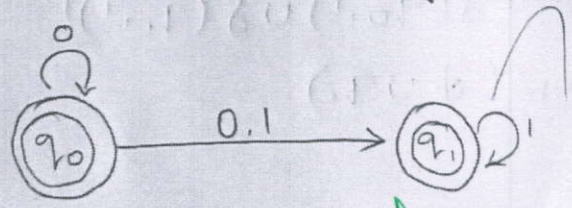
$= \varepsilon\text{-closure}(\delta(q_1, 1))$

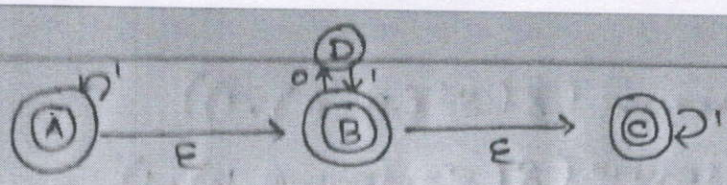
$= \{q_1\}$

Step 3 : Transition Table

States \ Inputs	0	1
q_0	$\{q_0, q_1\}$	$\{q_1\}$
q_1	$\{\phi\}$	$\{q_1\}$

Step 4 : Transition Diagram



(ii) 

soln :

step 1 : ε - closure (A) = {A, B, C}

ε - closure (B) = {B, C}

ε - closure (C) = {C}

ε - closure (D) = {D}

step 2 :

$\delta'(A,0)$ = ε - closure ($\delta(\delta'(A,\varepsilon),0)$)

= ε - closure (δ(ε - closure A), 0)

= ε - closure ($\delta(A,B,C),0$)

= ε - closure ($\phi \cup D \cup \phi$)

= {D}

$\delta'(A,1)$ = ε - closure ($\delta(\delta^{\wedge}(A,\varepsilon),1)$)

= ε - closure (δ(ε - closure A), 1)

= ε - closure ($\delta(A,B,C),1$)

= ε - closure ($A \cup \phi \cup C$)

= {A, B, C}

$\delta'(B,0)$ = ε - closure ($\delta(\delta^{\wedge}(B,\varepsilon),0)$)

= ε - closure (δ(ε - closure B), 0)

= ε - closure ($\delta(B,C),0$)

= ε - closure ($D \cup \phi$)

= {D}

$\delta'(B,1) = \varepsilon\text{-closure}(\delta(\delta^*(B,\varepsilon),1))$

$= \varepsilon\text{-closure}(\delta(\varepsilon\text{-closure } B),1)$

$= \varepsilon\text{-closure}(\delta(B,C),1)$

$= \varepsilon\text{-closure}(\phi \cup C)$

$= \{C\}$

$\delta'(C,0) = \varepsilon\text{-closure}(\delta(\delta^*(C,\varepsilon),0))$

$= \varepsilon\text{-closure}(\delta(\varepsilon\text{-closure } C),0)$

$= \varepsilon\text{-closure}(\delta(C,0))$

$= \{\phi\}$

$\delta'(C,1) = \varepsilon\text{-closure}(\delta(\delta^*(C,\varepsilon),1))$

$= \varepsilon\text{-closure}(\delta(\varepsilon\text{-closure } C),1)$

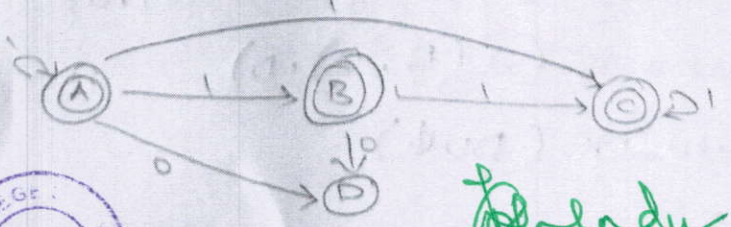
$= \varepsilon\text{-closure}(\delta(C,1))$

$= \{C\}$

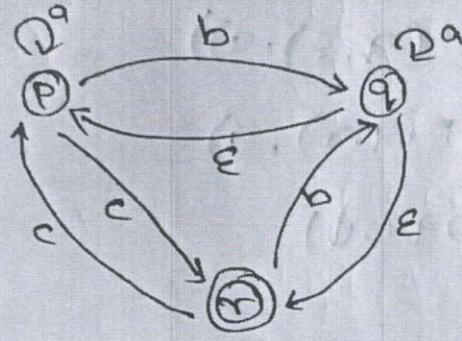
step 3 : Transition Table

Input / states	0	1
A	{D}	{A,B,C}
B	{D}	{C}
C	{ϕ}	{C}

step 4 : Transition Diagram



(iii)



Soln :

step 1 : ε - closure (p) = $\{p\}$

ε - closure (q) = $\{p, q, r\}$

ε - closure (r) = $\{r\}$

step 2 :

$\delta'(p, a) = \varepsilon$ - closure $(\delta(\delta^*(\varepsilon\text{-closure } p), a))$

$= \varepsilon$ - closure $(\delta(p, a))$

$= \varepsilon$ - closure (p)

$= \{p\}$

$\delta'(p, b) = \varepsilon$ - closure $(\delta(\delta^*(\varepsilon\text{-closure } p), b))$

$= \varepsilon$ - closure $(\delta(p, b))$

$= \{p, q, r\}$

$\delta'(p, c) = \varepsilon$ - closure $(\delta(\delta^*(\varepsilon\text{-closure } p), c))$

$= \varepsilon$ - closure $(\delta(p, c))$

$= \varepsilon$ - closure (r)

$= \{r\}$

$\delta'(q,a) = \varepsilon\text{-closure}(\delta(\delta^\wedge(q,\varepsilon),a))$

$= \varepsilon\text{-closure}(\delta(p,q,r),a)$

$= \varepsilon\text{-closure}(p \cup q \cup \phi)$

$= \{p,q,r\}$

$\delta'(q,b) = \varepsilon\text{-closure}(\delta(\delta^\wedge(q,\varepsilon),b))$

$= \varepsilon\text{-closure}(\delta(p,q,r),b)$

$= \varepsilon\text{-closure}(q \cup \phi \cup \phi)$

$= \{p,q,r\}$

$\delta'(q,c) = \varepsilon\text{-closure}(\delta(\delta^\wedge(\varepsilon\text{-closure } q),c))$

$= \varepsilon\text{-closure}(\delta(p,q,r),c)$

$= \varepsilon\text{-closure}(r \cup \phi \cup p)$

$= \{p,r\}$

$\delta'(r,a) = \varepsilon\text{-closure}(\delta(\delta^\wedge(\varepsilon\text{-closure } r),a))$

$= \varepsilon\text{-closure}(\delta(r,a))$

$= \{r\}$

$\delta'(r,b) = \varepsilon\text{-closure}(\delta(\delta^\wedge(\varepsilon\text{-closure } r),b))$

$= \varepsilon\text{-closure}(\delta(r,b))$

$= \{p,q,r\}$

$\delta'(r,c) = \varepsilon\text{-closure}(\delta(\delta^\wedge(\varepsilon\text{-closure } r),c))$

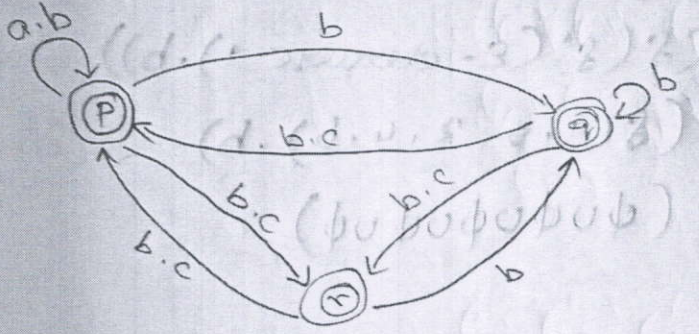
$= \varepsilon\text{-closure}(\delta(r,\phi))$

$= \{p\}$

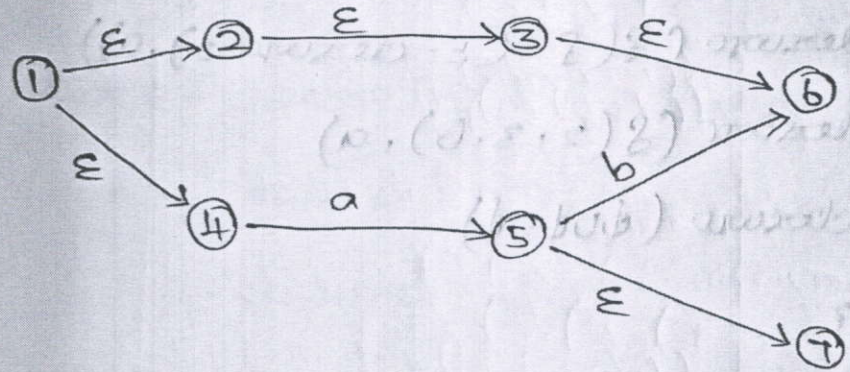
step 3 : Transition Table

Inputs / states	a	b	c
p	{p}	{p,q,r}	{r}
q	{p,q,r}	{p,q,r}	{p,r}
r	{r}	{p,q,r}	{p}

step 4 : Transition Diagram



(iv)



soln :-

step 1 : ε- closure (1) = {1, 2, 3, 4, 6}

ε- closure (2) = {2, 3, 6}

ε- closure (3) = {3, 6}

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

ε-closure (4) = {4}

ε-closure (5) = {5, 7}

ε-closure (6) = {6}

ε-closure (7) = {7}

step 2 :

$\delta'(1, a)$ = ε-closure ($\delta(\delta^\wedge(\varepsilon\text{-closure } 1), a)$)

= ε-closure ($\delta(1, 2, 3, 4, 6), a$)

= ε-closure ($\phi \cup 5 \cap \phi \cap \phi$)

= {5, 7}

$\delta'(1, b)$ = ε-closure ($\delta(\delta^\wedge(\varepsilon\text{-closure } 1), b)$)

= ε-closure ($\delta(1, 2, 3, 4, 6), b$)

= ε-closure ($\phi \cap \phi \cap \phi \cap \phi$)

= {ϕ}

$\delta'(2, a)$ = ε-closure ($\delta(\delta^\wedge(\varepsilon\text{-closure } 2), a)$)

= ε-closure ($\delta(2, 3, 6), a$)

= ε-closure ($\phi \cap \phi \cap \phi$)

= {ϕ}

$\delta'(2, b)$ = ε-closure ($\delta(\delta^\wedge(\varepsilon\text{-closure } 2), b)$)

= ε-closure ($\delta(2, 3, 6), b$)

= ε-closure ($\phi \cap \phi \cap \phi$)

= {ϕ}

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

$\delta'(3,a) = \varepsilon\text{-closure}(\delta(\delta'(\varepsilon\text{-closure } 3), a))$

$= \varepsilon\text{-closure}(\delta(\delta(3,q),a))$

$= \varepsilon\text{-closure}(\phi)$

$= \{\phi\}$

$\delta'(3,b) = \varepsilon\text{-closure}(\delta(\delta'(\varepsilon\text{-closure } 3), b))$

$= \varepsilon\text{-closure}(\delta(\delta(3,q),b))$

$= \varepsilon\text{-closure}(\phi)$

$= \{\phi\}$

$\delta'(4,a) = \varepsilon\text{-closure}(\delta(\delta'(\varepsilon\text{-closure } 4), a))$

$= \varepsilon\text{-closure}(\delta(\delta(4,q))$

$= \{5,7\}$

$\delta'(4,b) = \varepsilon\text{-closure}(\delta(\delta'(\varepsilon\text{-closure } 4), b))$

$= \varepsilon\text{-closure}(\delta(4,q))$

$= \{\phi\}$

$\delta'(5,a) = \varepsilon\text{-closure}(\delta(\delta'(\varepsilon\text{-closure } 5), a))$

$= \varepsilon\text{-closure}(\delta(\delta(5,7),a))$

$= \varepsilon\text{-closure}(\phi)$

$= \{\phi\}$

$\delta'(5,b) = \varepsilon\text{-closure}(\delta(\delta'(\varepsilon\text{-closure } 5), b))$

$= \varepsilon\text{-closure}(\delta(5,7),b))$

$= \varepsilon\text{-closure}(\phi)$

$= \{q\}$

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

$\delta'(b,a) = \varepsilon\text{-closure}(\delta(b,a))$

$= \{\phi\}$

$\delta'(b,b) = \varepsilon\text{-closure}(\delta(b,b))$

$= \{\phi\}$

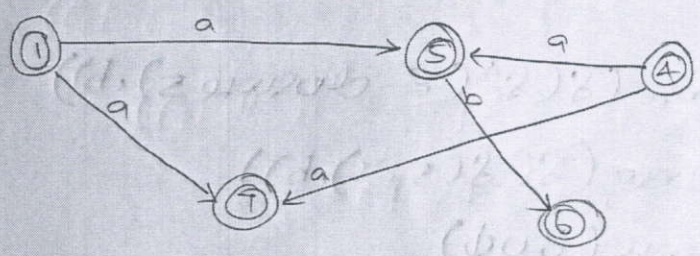
$\delta'(7,a) = \{\phi\}$

$\delta'(7,b) = \{\phi\}$

step 3 : Transition Table

Inputs / states	a	b
1	{5,7}	{φ}
2	{φ}	{φ}
3	{φ}	{φ}
4	{5,7}	{φ}
5	{φ}	{b}
6	{φ}	{φ}
7	{φ}	{φ}

step 4 : Transition Diagram



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

CMS COLLEGE OF ENGINEERING, NAMAKKAL-637 003

(AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

INTERNAL / MODEL EXAMINATION

Office Use only

Read the Instructions given overleaf carefully before filling in the title page. (To be filled by the candidate)

Register Number: 6 2 0 5 2 1 1 0 4 3 0 4

College Code	6205		
College Name	CMS College of Engineering		
Degree/Branch	BE / CSE	Semester	IV th Sem
Subject Code	CS3452	Date & Session	27/2/23
Subject Title	Theory of Computation	No. of Pages used	08
Question Paper Code		All particulars given are verified	Signature of the Hall Superintendent with date

Chief Superintendent's Signature / Facsimile

Name of the Hall Superintendent

DO NOT WRITE THE REGISTER NUMBER, COLLEGE CODE AND THE NAME IN ANY OTHER PART OF THE ANSWER BLOCK

Office Use only

(To be filled in by the candidate)

Date: 27/2/23 Session

Subject Code / Title: CS3452 Theory of Computation

Question Paper Code: No. of Pages used: 08

Office Use only

(To be filled in by the candidate)

Date: 27/2/23 Session Question Paper Code

Subject Code / Title: CS3452 Theory of Computation

Instruction to the Candidate: Put a tick mark (✓) for the questions attended in the tick mark colum against each question in V-1, V-2 & V-3

PART - A			PART - B & C										
Question No.	✓	Marks	Question No.		I ✓	I Marks	II ✓	II Marks	III ✓	III Marks	Total Marks	Grand Total (in words)
1	✓	2	11	a	✓	7					7	
2	✓	2		b								
3	✓	2	12	a								Three One
4	✓	2		b	✓	15	✓				15	
5			13	a								
6	✓	1		b								31
7			14	a								
8				b								Grand Total
9			15	a								
10				b								31
Total		9	16	a								
				b							22	

Declaration by the Examiner : Verified that all the questions attended by the student are valued and the total is found to be correct

Date

Name of the Examiner: Dr.A.MANADEVAN, B.E., M.E., Ph.D.

Signature of the Examiner

PRINCIPAL

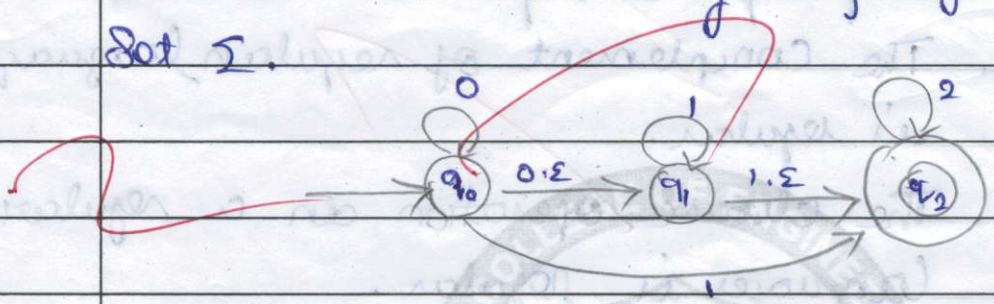
CMS COLLEGE OF ENGINEERING,

NAMAKKAL

Part - A.

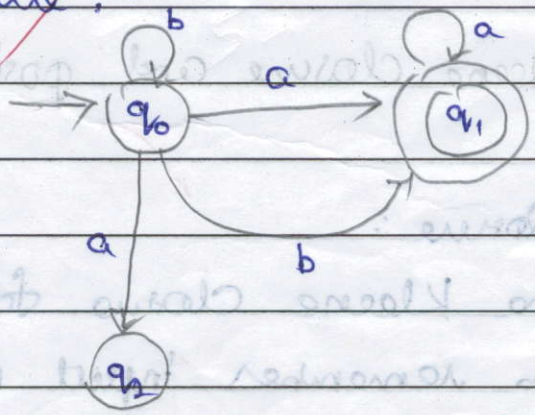
1. Define The epsilon transition.

The Epsilon transitions in NFA are given in order to move from one state to another without having any symbol from input set Σ.



2. Define NFA.

The concept of non-deterministic finite automata is exactly reverse of deterministic finite automata. The finite automata is called NFA when there exits many paths for a specific input from current state to next state.



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

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

3 Name any four closure properties of regular expression.

1. The union of two regular languages is regular.
2. The intersection of two regular languages is regular
3. The complement of regular language is regular.
4. The closure operation on a regular languages is regular.

5 What is meant by Symbol in computation language.

for any Symbol if there does not exits derivation which could generate terminal string, then that Symbol is called useless Symbol.

6. Diff/- Kleene closure and positive closure.

Kleene closure:

* The Kleene closure for have memory to remember input Symbol.
* It is always true regular on of NFA with ε and without ε.

Positive closure:

* This is model has stack memory to remember input symbols.
* It have two versions - deterministic PDA.

Part-B

2 (a) Explain the equivalance of NFA with DFA.

Ans:

NFA can be converted to equivalent DFA following theorem illustrates the concept.

Theorem: Let L be a set accepted by non-deterministic finite automation. Then there exits a deterministic finite automation that accepts L.

Prove that 'F' language L is accepted by some DFA if and only if L is accepted by some NFA.

prove: let

$M = (Q, \Sigma, \delta, q_0, F)$ be an NFA for language L. Then define NFA M' like that $M' = (Q', \Sigma', \delta', q_0', F')$

The Element in Q' will be denoted by $(q_1, q_2, q_3, \ldots, q_i)$ and the elements in Q are denoted by $\{q_1, q_2, q_3\}$ Then $\{q_1, q_2, q_3\}$ will be assumed as one state in Q' if in the NFA q_0 is a initial state it is denoted in DFA $q'_0 = [q_0]$ we define.

$$\delta'([q_1, q_2, \ldots q_i], a) = [p_1, p_2, p_3 \ldots p_j]$$

if and only if.

$$\delta'(\{q_1, q_2, \ldots q_i\}, a) = \{p_1, p_2, p_3 \ldots p_j\}$$

Basic : if length of input string is 0

$|x| = 0$ then means x is Σ then $q'_0 = [q_0]$

Induction : if the assume that the hypothesis is true and then we have not assumed that belongs some derivation process that have has modulus process is called has induction process.

$$\delta'([p_1, p_2 \ldots p_i], a) = \{r_1, r_2, \ldots r_k\}$$

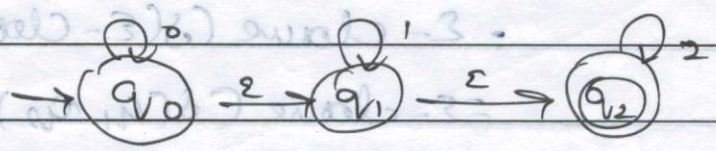
Thus

$$\delta'(q, 0, xa) = [r_1, r_2, \ldots r_k]$$

$$L(M) = L(M')$$

Thus the theorem is proved from NFA with DFA.

9 Convert the given NFA with ε to NFA without ε.



Ans:

Here prove that the procedure is.

ε-closure $(q_0) = \{q_0, q_1, q_2\}$

ε-closure $(q_1) = \{q_1, q_2\}$

ε-closure $(q_2) = \{q_2\}$

Now we will obtain δ' transition for each state on each input symbol.

$\delta'(q_0, 0) = \varepsilon$-closure $(\delta(\hat{\delta}(q_0, \varepsilon), 0))$

$= \varepsilon$-closure $(\delta(\varepsilon$-closure $(q_0), 0))$

$= \varepsilon$-closure $(\delta(q_0, q_1, q_2), 0)$

$= \varepsilon$-closure $(\delta(q_0, 0) \cup (q_1, 0) \cup (q_2 \cup 0))$

$= \varepsilon$-closure $(q_0) = \{q_0, q_1, q_2\}$

$\delta'(q_0, 1) = \varepsilon$-closure $(\delta(\hat{\delta}(q_0, \varepsilon), 1))$

$= \varepsilon$-closure $(\delta(q_0, q_1, q_2), 1)$

$= \varepsilon$-closure $(\phi \cup q_1 \cup \phi))$

$= \varepsilon$-closure (q_1)

$\delta'(q_0, 1) = \{q_1, q_2\}$

$\delta'(q_1, b) = \varepsilon\text{-closure}(\delta(\hat{\delta}(q_1, \varepsilon), 1))$

$= \varepsilon\text{-closure}(\delta(\varepsilon\text{-closure}(q_1), 1))$

$= \varepsilon\text{-closure}(\delta(q_1, q_2), 1)$

$= \varepsilon\text{-closure}(q_1 \cup \phi)$

$= \varepsilon\text{-closure}(q_1) \Rightarrow \{(q_1, q_2)\}$

$\delta'(q_2, 0) = \varepsilon\text{-closure}(\delta(\hat{\delta}(q_2, \varepsilon), 0))$

$= \varepsilon\text{-closure}(\delta(\varepsilon\text{-closure}(q_2), 0))$

$= \varepsilon\text{-closure}(\delta(q_4, 0))$

$= \varepsilon\text{-closure}(\phi)$

$= \phi$

$\delta'(q_0, 2) = \varepsilon\text{-closure}(\delta(\hat{\delta}(q_0, \varepsilon), 2))$

$= \varepsilon\text{-closure}(\delta(\varepsilon\text{-closure}(q_0), 2))$

$= \varepsilon\text{-closure}(\delta(q_0, q_1, q_2), 2)$

$= \varepsilon\text{-closure}(\delta(q_0, 2) \cup \delta(q_1, 2) \cup \delta(q_2, 2))$

$= \varepsilon\text{-closure}(\phi, \phi \cup q_2)$

$= \varepsilon\text{-closure}(q_2)$

$= \{q_2\}$

$\delta'(q_1, 2) = \varepsilon\text{-closure}(\delta(\hat{\delta}(q_1, \varepsilon), 2))$

$= \varepsilon\text{-closure}(\delta(\varepsilon\text{-closure}(q_1), 2))$

$= \varepsilon\text{-closure}(\delta(q_1, q_2), 2)$

$= \varepsilon\text{-closure}(\delta(q_1, q_2), 2)$

$= \varepsilon\text{-closure}(\delta(q_1, q_2) \cup (q_2, 2))$

$= \varepsilon\text{-closure}(q_2)$

$= \{q_2\}$

$\delta'(q_2, 2) = \varepsilon\text{-closure}(\delta(\delta(q_0, \varepsilon), 2))$

$= \varepsilon\text{-closure}(\delta(\varepsilon\text{-closure}(q_2), 2))$

$= \varepsilon\text{-closure}(\delta(q_2, 2))$

$= \varepsilon\text{-closure}(q_2)$

$= \{q_2\}$

Now will summarize all the computed δ' transition.

$\delta'(q_0, 0) = \{q_0, q_1, q_2\}$.

$\delta'(q_0, 1) = \{q_1, q_2\}$

$\delta'(q_0, 2) = \{q_2\}$

$\delta'(q_0, 0) = \{\phi\}$

$\delta'(q_1, 1) = \{q_1, q_2\}$

$\delta'(q_1, 2) = \{q_2\}$

$\delta'(q_2, 0) = \{\phi\}$

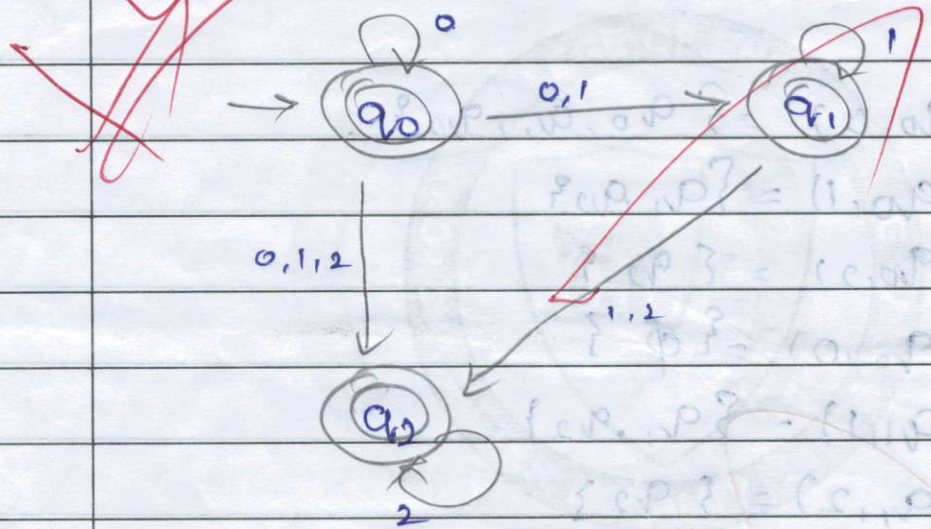
$\delta'(q_2, 1) = \{\phi\}$

$\delta'(q_2, 2) = \{q_2\}$

And the we can write the transition table are as shown as given below in the table of Deterministic and non Deterministic finite automata.

State \ Input	0	1	2
q_0	$\{q_0, q_1, q_2\}$	$\{q_1, q_2\}$	$\{q_2\}$
q_1	ϕ	$\{q_1, q_2\}$	$\{q_2\}$
q_2	ϕ	ϕ	$\{q_2\}$

The DFA will be,



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 ELECTRONICS AND COMMUNICATION ENGINEERING

Academic Year: 2022-2023 (ODD SEMSTER) **Year/Sem: II / III**

WEAK STUDENTS (IAT-I) NAME LIST

S.NO.	REG NO.	NAME	REMARKS
1	620521106001	ARTHI K	
2	620521106302	KALAIVANI R	
3	620521106304	PRASATH D	
4	620521106305	SOUNDARYA S R	

HOD

PRINCIPAL

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

CLASS WISE CONTINUOUS ASSESSMENT IMPROVEMENT REPORT				Date	21/10/2022
Degree & Branch:- BE - ECE		Academic Year : 2022-23		Batch Passing Out Year : 2025	
Semester: III	Section:-	Month & Year of Exam : SEPTEMBER - 2022		Name(s) of the Test : IAT-1(Improvement Analysis result)	

S.No	Subject Code	Subject Name	Name(s) of the Faculty
1	MA3355	Random Processes and Linear Algebra	Mrs. B. NIVETHA
2	CS3353	C Programming and Data Structures	MR. R.GOPINATH
3	EC3351	Control Systems	MR. SOUNDRAKUMAR S
4	EC3352	Digital Systems Design	MR. PERIYASAMY K
5	EC3353	Electronic Devices and Circuits	DR. VENKATESAN S
6	EC3354	Signals and Systems	MR. PRABU P

Sl.No	Reg. No	Name of the Students	Marks Obtained(Max:100 Marks)						Total Marks	Attendance % Till this Exam	No of subjects Absent in this Assessment	No of Subjects Failed in this Assessment
			1	2	3	4	5	6				
1	620521106302	KALAIVANI R	62	50	67	61	62	60	362	86%	0	0
2	620521106303	PAPPIAH P	80	54	84	55	80	72	353	88%	0	0
3	620521106304	PRASATH D	77	65	69	69	62	51	393	76%	0	0
4	620521106305	SOUNDARYA S R	53	50	51	55	53	60	322	78%	0	0

1	Total no of students appeared for the subject	4	4	4	4	4	4	NO. OF STUDENTS PASSED IN ALL SUBJECTS	4
2	No. of students Absent	0	0	0	0	0	0		
3	No. of students Passed	4	4	4	4	4	4		
4	No. of students failed	0	0	0	0	0	0	TOTAL NO. OF STUDENTS REGISTERED	4
5	% Pass(out of students appeared for the subject)	100%	100%	100%	100%	100%	100%		
6	% Pass(out of students registered for the subject)	100%	100%	100%	100%	100%	100%	ALL PASS IN %	100%

FAILURE ANALYSIS (Excluding Absent)

No. of subjects failed:	1	2	3	4	5	6
No. of Students	0	0	0	0	0	0
Percentage%	0%	0%	0%	0%	0%	0%

CLASS ADVISOR HOD EXAMCELL COORDINATOR PRINCIPAL

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

Summary of students undergone Project Work/ Filed visit/Internship(2022-23)

S.NO	PROGRAMME NAME	NUMBER OF STUDENTS UNDERTAKING PROJECT WORK	NUMBER OF STUDENTS UNDERTAKING FIELD WORK	NUMBER OF STUDENTS UNDERTAKING INTERNSHIP	UNIQUE LIST
1	B.E COMPUTER SCIENCE AND ENGINEERING	-	30	-	

PRINCIPAL

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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 40065, 84899 10651.
Website:www.cmsgroupofinstitutions.in Email:cmscollegeofengg@gmail.com,principal602@gmail.com

PERMISSION LETTER

From

The Head of Department
Computer Science and Engineering,
CMS college of Engineering,
Namakkal

To

The Vice –President
Chips Software Systems Pvt Ltd,
Ernakulam
Kerala 682011

Respected sir,

Sub: Request for one day Industrial Visit - Reg.

We would like to bring to your kind notice that our Computer science and Engineering students need to visit the Chips Software Systems Pvt Ltd., as part of their curriculum. Also we wish to inform that our students are interested to visit your software development methods. Hence, we humbly request you to permit our 30 students accompanied by 2 Faculty members for industry visit on 17.09.2024.

Date : 12.09.2022
Place : CMSCE

Head of the Department
Computer Science and Engineering
CMS College of Engineering,
Namakkal-637 003.

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

Chipsoft

Chips Software Systems (Estd.1993)

W/ IGNOU STUDY CENTRE code 1423 (P)

To,

08th September **2022**

THE PRINCIPAL
CMS COLLEGE OF ENGINEERING
NAMAKKAL

INDUSTRIAL VISIT

Dear Sir/ Madam,

We are pleased to receive 30 students of CSE Department with accompanying faculty members of your college for an Industrial visit to our IT Centre of our Company on the 17th September 2022 .

Let them be here by 10.30 AM on that day.

Let the Students bring a formal request addressed to us, duly signed by yourself or HOD, complete with a proper list of students and accompanying faculty in the group;

We shall be issuing a GROUP participation certificate immediately after the conclusion of the Industrial Visit.

With warm regards

Sincerely

For Chips Software Systems

TUK Menon

CHIPS SOFTWARE SYSTEMS TEL: 2370942 3241436 KOCHI-682 011

Software Development
BCA/ MCA Student Projects
Website Design & Registration
Software Training (in JV with AmitySoft, Chennai)
and Computer Training

Sahithya Parishath Building, Hospital Road,
Near Head post office, Ernakulam, Kochi -682 011
Tel : (0484) 2370942/ 3241436 /2354690
Email : mail@chipssoft.com
tukmenon@gmail.com
Website : www.chipssoft.com

COLLEGE OF ENGINEERING NAMAKKAL-3

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 Computer Science and Engineering

Field visit Name List

S.NO	REGISTER NO	NAME OF THE STUDENTS	MOBILE NO
1	620521104001	ASHRAF ALI A	9342552346
2	620521104008	GUNASEKARAN P	7094694716
3	620521104009	JAYASURYA S	9629516590
4	620521104011	KAVIYA S	6374462627
5	620521104012	KEERTHANA M	7448927790
6	620521104013	KUMARESAN R	6381731421
7	620521104016	NANDHAKUMAR K	6374358550
8	620521104017	NAVEENKUMAR P	9080085935
9	620521104019	NIKITHA M	9585832353
10	620521104020	NIVETHA R	9514067470
11	620521104022	PRAKASH S	9344860843
12	620521104025	SABARI B	8072475098
13	620521104026	SANJAI A	9360253944
14	620521104027	SANJAY P	8825725069
15	620521104028	SUJILKUMAR M	9025686151
16	620521104301	ANANTH S	7373221287
17	620521104302	ARULMURUGAN S	8110912722
18	620521104303	BOOBALAN S	7010485458

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

19	620521104304	DINESH M	9600231788
20	620521104306	KALAISELVAN R	6374609411
21	620521104308	MEERA C	6383196805
22	620521104312	SRIMATHI	9361247362
23	620521104313	VENGATESAN S	6385302800
24	620520104306	BASKAR V	7305700879
25	620520104314	MEENATCHI K	7305849833
26	620520104315	MERCY P	9566944312
27	620520104316	MONISHA N	6385790234
28	620520104321	SARANYA V	8523993157
29	620520104323	SARUMATHI J	9361174795
30	620520104325	STALIN K	9500681237

Name of the Faculty Members

Mr.S.Dhinesh	90259 70887
Mr.K.Maheshkumar	97901 51814
Mrs.R.Kaviya	73390 95145

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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,principa1602@gmail.com

Glimpse of CMS students having session inside Chips Software Sysytems.

Glimpse of CMS students in front of Chips Software Systems Arena.

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

REPORT ON FIELD VISIT

On receiving the permission from Chips Software Systems company in Ernakulam, Kerala. Totally 30 students along with three faculties member from II & III CSE of CMS College of Engineering , Namakkal went to field visit on 17.09.2022

The company was established in the year 1993and located in Ernakulam Ho. Chips Software Systems Pvt. Ltd in Ernakulam is one of the leading businesses in the Computer Network Training Institutes and also providing Software publishing. Custom software also includes made-to-order software based on orders from specific users.

The Staff member of Chips Software Systems explained us about the networking concepts involved in computer communication. And show the demo of how data packets delivered from sender to receiver in realistic link method.

Outcomes: Students get more knowledge of networking components and its operation.

Student Coordinator Faculty Coordinator HOD-CSE

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

Summary of students undegone Project Work / Field Visit / Internship(2022-23)

S.NO	PROGRAMME NAME	NUMBER OF STUDENTS UNDERTAKING PROJECT WORK	NUMBER OF STUDENTS UNDERTAKING FIELD WORK	NUMBER OF STUDENTS UNDERTAKING INTERNSHIP	UNIQUE LIST
1	B.E ELECTRONICS AND COMMUNICATION ENGINEERING & B.E ELECTRICAL AND ELECTRONICS ENGINEERING	-	24	-	24

PRINCIPAL

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

1.3.2 Percentage of students undertaking project work/field work/internships(Data for the latest completed academic year)- Academic year 2022-23.

S.NO	`PARAMETER	PROGRAMME NAME	LINK
1	Report of the field work. sample photographs of the field work/permission letter only for field work from the competent authority	B.E ELECTRONICS AND COMMUNICATION ENGINEERING & B.E ELECTRICAL AND ELECTRONICS ENGINEERING	view

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

Requisition Letter

Date :01.03.2023

From

The Head of the Department
Electrical and Electronics Engineering
Electronics and Communication Engineering
CMS College of Engineering
Namakkal.

To

The General Manager
Seshasayee Paper and Board Limited
Pallipalayam, Cauvery RSPO
Erode -638007.

Requested Sir/Madam,

Sub: Seeking permission for Industrial visit –Reg.

CMS COLLEGE OF ENGINEERING is one of the eminent engineering colleges in Namakkal District run by CMS EDUCATIONAL TRUST, started in the year 2007 having six branches at present. we need a date from 10th March to 11th March 2023 to visit your company with around 40 students accompanied by 5 faculty members .The visit to your company will provide a good practical exposure to our students and faculty members about how paper production units are operating .Kindly grant us permission to visit the company with our scheduled date. We shall be grateful, if you can allow us to visit your company.

Looking forward to your early reply.

Yours Faithfully,

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

CMS COLLEGE OF ENGINEERING NAMAKKAL

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

REQUISITION LETTER

Date:06-03-2023

From

The Head of the Department
Electrical and Electronics Engineering
Electronics and Communication Engineering
CMS College of Engineering
Namakkal.

To

The Principal
CMS College of Engineering
Namakkal.

Requested Sir,

Sub: Seeking permission for Industrial visit –Reg

We would like to bring to your kind notice that, as per academic schedule our EEE and ECE department students are in need to visit a company. As per our requisition the Seshasayee Paper and Board Limited , Pallipalayam, Erode accepted our request for giving practical session about paper making process. The strength of 24 students from EEE and ECE department will be accompained by 2 faculty members are decided to visit the company on 10th March. Hence we kindly request you to grant us the permission to visit the company.

Thanking You

Yours Faithfully

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

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

Gmail

CMSCE NKL <cmscollegeofengg@gmail.com>

Factory Visit

5 messages

SPB Industrial Relations Office Erode <iroff@spbltd.com> Fri, Mar 03, 2023 at 3:45 PM
To: cmscollegeofengg@gmail.com
Cc: Alagarsamy A <alagan@spbltd.com>, SPB Time Office Erode <timeoffice@spbltd.com>, SPB Safety Erode <safety@spbltd.com>, SPB Security Office Erode <csm@spbltd.com>, SPB Public Relations Office Erode <pro@spbltd.com>, Marimuthu P <marimuthu@spbltd.com>, Krishnamurthy C <krishna@spbltd.com>, SPB Lab Erode <lab@spbltd.com>

Pers/FV/77 2023.03.03

The Principal,
CMS College of Engineering,
CMS Nagar,
Eranapuram Post,
Namakkal District - 637 003.

Dear Sir,

Sub : Industrial Visit
Ref : Your Mail dt. 03.03.2023

With reference to the above, we are pleased to permit 40 students with 2 Faculties of your Institute to visit our factory at 2.30 p.m. on 10.03.2023 (Friday) on the following terms and condions

1. Students 18 years and above will be permitted to visit the factory.
2. Students should wear Safety Shoes, Safety Mask and tuck their shirts during the factory visit.
3. Girl students should wear over coat.
4. They must wear the Helmet issued by us at the time of visit.
5. They should adhere to the safety instructions during the visit.
6. They are not permitted to carry mobile inside the factory during the visit.

Please advise the students to contact our Public Relations Office on reaching the Factory.

Thanking you,

Yours faithfully,
for Seshasayee Paper and Boards Limited

A.Alagarsamy
GM-HR

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

List of students undertaking project work/internship/field work for the Academic Year 2022-23

Department of EEE & ECE

Participation List

S. NO	REGISTER NO	CANDIDATE NAME
1	620521106001	ARTHI K
2	620521106301	ARKESH J
3	620521106302	KALAIVANI R
4	620521106303	PAPPIAH P
5	620521106304	PRASATH D
6	620521106305	SOUNDARYA S R
7	620520106302	BALAMURUGAN.R
8	620520106303	BELAGIRI.M
9	620520106308	MANIMARAN.C
10	620520106312	NISHANTHI.E
11	620520106313	RAGHINI.K
12	620520106315	SIVA.M
13	620521105004	VINETH PRAVEEN P
14	620521105301	BANU PRIYA G
15	620521105302	KABILESHWARAN R
16	620521105306	VIGNESH P
17	620520105305	ARUNKUMAR S
18	620520105307	BASKAR S

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

19	620520105309	DHAMOTHARAN D
20	620520105312	GIRIMURUGAN S
21	620520105314	JALEEL AHAMED M
22	620520105319	MAHENDRAN R
23	620520105327	SANJAI R
24	620520105332	SRINIVAS P

Name of the faculty members

1.Mr.G.SURESH, HOD/EEE

2.Mr.K.PERIYASAMY,HOD/ECE

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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 EEE & ECE

Industrial Visit Name List

S.NO	REGISTER NO	NAME OF THE STUDENTS
1	620521106001	ARTHI K
2	620521106301	ARKESH J
3	620521106302	KALAIVANI R
4	620521106303	PAPPIAH P
5	620521106304	PRASATH D
6	620521106305	SOUNDARYA S R
7	620520106302	BALAMURUGAN.R
8	620520106303	BELAGIRI.M
9	620520106308	MANIMARAN.C
10	620520106312	NISHANTHI.E
11	620520106313	RAGHINI.K
12	620520106315	SIVA.M
13	620521105004	VINETH PRAVEEN P
14	620521105301	BANU PRIYA G
15	620521105302	KABILESHWARAN R
16	620521105306	VIGNESH P
17	620520105305	ARUNKUMAR S
18	620520105307	BASKAR S
19	620520105309	DHAMOTHARAN D

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

20	620520105312	GIRIMURUGAN S
21	620520105314	JALEEL AHAMED M
22	620520105319	MAHENDRAN R
23	620520105327	SANJAI R
24	620520105332	SRINIVAS P

Name of the Faculty Members

Mr.K. PERIYASAMY	9790385835
Mr.G.SURESH	7904097692
Mr. S.SOUNDRAKUMAR	9842563697
Ms. A.KALAIVANI	8056315803
Mr.P.VINITH PRAVEEN	8667411790
Mr.S.ARUNKUMAR	8675681582

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

REPORT

On receiving the letter of permission from Seshasayee Paper and Board Limited, Pallipalayam,24 students of third and final year students of EEE and ECE with two faculty members went to the factory on **10.03.2023.** All students assembled at the college at 12.30 pm and left the college in a bus. The students reached the factory at 2.00 pm. After giving a briefing of the rules and guidelines to be followed, helmets were given to the students. then the students were taken to the various units of the plant where the actual paper making process initiates.

A session was conducted by manager who provided very useful information about the Company such as: Sources of raw materials, Sorting of the scrap papers, Processing of the paper pulp, Drying of the paper pulp ,Preparation of the finished products in form of paper rolls.

The students were provided with deep insights about the working of the factory and each and every question was patiently answered by him. The visit was finally concluded around 03.45 pm.The students left the plant around 4pm. The industrial visit to Seshasayee Paper and Board Limited was an enriching experience for students in getting live exposure of manufacturing and processing of finished paper products along with the organizational activities within a factory which can help them in their professional knowledge and further career enhancements.

CMS COLLEGE OF ENGINEERING NAMAKKAL

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,principa1602@gmail.com

PHOTO

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

B.E COMPUTER SCIENCE AND ENGINEERING

MINI PROJECT BATCH LIST(2022-2023)

S.NO	REGISTER NUMBER	NAME	PROJECT TITLE	PROJECT GUIDE
1	620520104306	BASKAR V	REALTIME HAND GESTURE RECOGNITION SYSTEM USING OPEN CV	K.MAHESHKUMAR ASSISTANT PROFESSOR
2	620520104315	MERCY P		
3	620520104316	MONISHA N		
4	620520104321	SARANYA V	DRIVER DROWSINESS DETECTION USING PYTHON AND OPEN CV	K.RAMYA ASSISTANT PROFESSOR
5	620520104323	SARUMATHI J		
6	620520104325	STALIN K		
7	620520104327	SUVISTHA K		

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

REALTIME HAND GESTURE RECOGNITION SYSTEM USING OPEN CV

A PROJECT REPORT

Submitted by

BASKAR V (620520104306)

STALIN K (620520104325)

MONISHA N (620520104316)

in partial fulfillment for the award of the degree

Of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

CMS COLLEGE OF ENGINEEERING

ERANAPURAM, NAMAKKAL – 637003

ANNA UNIVERSITY:: CHENNAI 600 025

APRIL-2023

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

BONAFIDE CERTIFICATE

Certified that this project report **"HAND GESTURE ECOGNITION SYSTEM USING OPENCV"** is the bonafide work of BASKAR V (620520104306) STALIN K (620520104325) ONISHA N (620520104316) ".who carried out the project work under my pervision.

SIGNATURE

Mr. K.MAHESHKUMAR, B.Tech.,M.E.,

SUPERVISOR

ASSISTANT PROFESSOR,

Department of CSE,

CMS College of Engineering

SIGNATURE

Mr. S.DHINESH, B.Tech M.E.,

HEAD OF THE DEPARTMENT

ASSISTANT PROFESSOR,

Department of CSE,

CMS College of Engineering

Certified that candidate was examined in the Anna university project viva – voce examination held on 29/05/2023

INTERNAL EXAMINER

EXTERNAL EXAMINER

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

ABSTRACT

This project and experiment were conducted with the aim of utilizing the human hands as an object to operate computers. It is intended to support and use technologies in the field of contactless shopping/payments.The program is developed by using python programming language with the help of additional libraries such as OpenCV.In order to use this program, the person needs to be in front of a computer webcam. The webcam will be used to recognize the shape and the pattern of the presenters' hands. The program will display results of recognized hand patterns of gestures on a live video frame stream. The result of this project is a program that can be used for improve the user experience of contactless systems and make safer transactions in a time of global pandemic of 2020, where social distancing is one of the main things to consider.

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

DRIVER DROWSINESS DETECTION USING PYTHON AND OPENCV

A PROJECT REPORT

Submitted by

MERCY P	(620520104315)
SARANYA V	(620520104321)
SARUMATHI J	(620520104323)
SUVISTHA K	(620520104327)

in partial fulfillment for the award of the degree

Of

BACHELOR OF ENGINEERING

in

COMPUTER SCIENCE AND ENGINEERING

CMS COLLEGE OF ENGINEEERING

ANNA UNIVERSITY:: CHENNAI 600 025

APRIL 2023

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

BONAFIDE CERTIFICATE

Certified that this project report "DRIVER DROWSINESS DETECTION USING PYTHON AND OPEN CV" is the bonafide work of "MERCY P (620520104315), SARANYA V (620520104321), SARUMATHI J (620520104323) and SUVISTHA K (620520104327)" who carried out the project work under my supervision.

SIGNATURE

Mrs.K.RAMYA, B.E.,M.E.,
SUPERVISIOR
ASSISTANT PROFESSOR,
Department of CSE,
CMS College of Engineering

SIGNATURE

Mr. S.DHINESH, B.Tech.,M.E.,
HEAD OF THE DEPARTMENT
ASSISTANT PROFESSOR,
Department of CSE,
CMS College of Engineering

Certified that candidate was examined in the Anna university project viva – voce examination held on 24/05/2023.

24/5/23
INTERNAL EXAMINER

EXTERNAL EXAMINER

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

ABSTRACT

Nowadays, more and more professions require long-term concentration. Drivers must keep a close eye on the road, so they can react to sudden events immediately. Driver fatigue often becomes a direct cause of many traffic accidents. Therefore, there is a need to develop the systems that will detect and notify a driver of her/him bad psychophysical condition, which could significantly reduce the number of fatigue-related car accidents. However, the development of such systems encounters many difficulties related to fast and proper recognition of a driver's fatigue symptoms. One of the technical possibilities to implement driver drowsiness detection systems is to use the vision-based approach. This article presents the currently used driver drowsiness detection systems. Here we are detecting the driver drowsiness by estimating vision system of him.

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

SUMMARY REPORT OF VALUE ADDED PROGRAMS CONDUCTED FOR ACADEMIC YEAR 2022-2023

S.NUMBER	NAME OF VALUE ADDED PROGRAMS OFFERED	DURATION (HOURS)	NUMBER OF STUDENTS ENROLLED
1	DATA BASE SECURITY	30	28
2	MACHINE LEARNING	30	14
3	ROBOTICS	30	6
4	PLC ,SCADA&DCS	30	6
5	MATLAB	30	22
6	ETAP	30	6
7	CATIA	30	44

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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 COMPUTER SCIENCE AND ENGINEERING

CLASS COMMITTEE MEETING –III

CLASS –II YEAR

DATE:6/03/2023

FEEDBACK

1. HoD and Class Advisor instructed the students to utilize the coaching classes scheduled for Modal Examination for planning the coverage of syllabus and make utilize lesiure hours for Arrear Examination preparation.
2. Students are instructed to submit the class notes, Assignment and observation prior to the no due clearence individually for each subject.
3. Students are instructed to clear the fees pending before the university examination and practical examination.
4. Students are instructed to attend the model examination without fail for the prediction of university question set.
5. Students are instructed to complete the Lab records, observation and get sign as the earliest.
6. Students are instructed to clear the Arrear exams ,if need coaching will be given by corresponding staff.
7. During coaching schedule attendance will be taken , absentees are encoraged for classes.
8. If students need leave, he/she has to get prior permission from Class Advisor and HOD in this regard.
9. Students are instructed to clear the no dues before the university exam otherwise the hall tickest will not be isued to the students.

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

Internal Quality Assurance Cell

Internal Academic Audit Report

Department: **Sem/Class: IV / II**

Academic Year:2022-2023 **Date:** 11-8-2023

Documents to be verified	EC3401 & Networks and Security	EC3492 & Digital Signal Processing
Faculty name	Mr.T.MAHESHWARAN	DR. VENKATESAN S
Theory		
Logbook	Verified	Verified
Course file(As per internal Audit format)	Verified	Verified
IAT Test Papers	Verified	Verified
IAT Marks	Verified	Verified
Assignments /seminar/ Case study report	Verified	Verified
Lab		
Logbook	Verified	Verified
Lab Manual	Verified	Verified
Observations	Verified	Verified
Records	Verified	Verified
Model Test Marks	Verified	Verified
Model Test Papers	Verified	Verified

HOD Auditor Name & Sign Principal

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

Dr.K.RAMADEVAN,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

Internal Quality Assurance Cell

Internal Academic Audit Report

Department: ECE

Sem/Class: VI / III

Academic Year: 2022-2023

Date: 11-8-2023

Documents to be verified	EC8691 & Microprocessors and Microcontrollers	EC8095 & VLSI Design	EC8652 & Wireless Communication	MG8591 & Principles of Management	EC8651 & Transmission Lines and RF Systems	EC8004& Wireless Networks
Faculty name	Mr.K.PERIYASAMY	Mr.P.PRABHU	Mr. S.SOUNDRAKUMAR	DR. VENKATESAN S	MS. KALAIVANI A	MS. KALAIVANI A
Logbook	verified	verified	verified	verified	verified	verified
Course file(As per internal Audit format)	verified	verified	verified	verified	verified	verified
IAT Test Papers	verified	verified	verified	verified	verified	verified
IAT Marks	verified	verified	verified	verified	verified	verified
Assignments /seminar/ Case study report	verified	verified	verified	verified	verified	verified

HOD

Auditor Name & Sign

Principal

CMS COLLEGE OF ENGINEERING NAMAKKAL-3

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

Internal Quality Assurance Cell

Internal Academic Audit Report

Department: ECE **Sem/Class: IV / II**

Academic Year:2022-2023 **Date:** 11-8-2023

Documents to be verified	EC3452 & Electromagnetic Fields	EC3451 & Linear Integrated Circuits	EC3491 & Communication Systems	GE3451 & Environmental Sciences and Sustainability
Faculty name	Mr.P.PRABHU	Mr.K.PERIYASAMY	MR. SOUNDRAKUMAR S	MS. KALAIVANI A
Logbook	verified	verified	verified	verified
Course file(As per internal Audit format)	verified	verified	verified	verified
IAT Test Papers	verified	verified	verified	verified
IA I Marks	verified	verified	verified	verified
Assignments /seminar/ Case study report	verified	verified	verified	verified

HOD

Auditor Name & Sign

Principal

CMS COLLEGE OF ENGINEERING NAMAKKAL

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