



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.

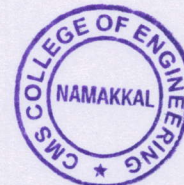
Contact No: 98433 46065, 84899 10651.

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

2.5.1. Mechanism of internal/external assessment is transparent and the grievance redressal system is time-bound and efficient

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





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ACADEMIC CALENDAR 2021-2022 (EVEN SEMESTER) COMMON TO ALL BRANCHES (SEMESTER - IV, VI, VIII)

FEBRUARY - 2023				MARCH - 2023				APRIL - 2023				MAY - 2023			
DATE	DAY	WD	ACTIVITY	DATE	DAY	WD	ACTIVITY	DATE	DAY	WD	ACTIVITY	DATE	DAY	WD	ACTIVITY
1	WED			1	WED	21	IA - I	1	SAT	48	IA - II	1	MON		LABOURS DAY
2	THU			2	THU	22	IA - I	2	SUN		HOLIDAY	2	TUE	69	COACHING
3	FRI			3	FRI	23	IA - I	3	MON	49		3	WED	70	COACHING
4	SAT			4	SAT	24	IA - I	4	TUE		MAHAVEER JAYANTHI	4	THU	71	COACHING
5	SUN		HOLIDAY	5	SUN		HOLIDAY	5	WED	50		5	FRI	72	COACHING
6	MON	1	Anna University Re-Open	6	MON	25		6	THU	51		6	SAT	73	COACHING
7	TUE	2		7	TUE	26		7	FRI		GOOD FRIDAY	7	SUN		HOLIDAY
8	WED	3		8	WED	27		8	SAT	52		8	MON	74	COACHING
9	THU	4		9	THU	28		9	SUN		HOLIDAY	9	TUE	75	COACHING
10	FRI	5		10	FRI	29		10	MON	53		10	WED	76	COACHING
11	SAT	6		11	SAT	30	INDUSTRIAL VISIT	11	TUE	54		11	THU	77	COACHING
12	SUN		HOLIDAY	12	SUN		HOLIDAY	12	WED	55		12	FRI	78	Last Working Day
13	MON	7		13	MON	31		13	THU	56		13	SAT		
14	TUE	8		14	TUE	32		14	FRI		TAMIL NEW YEAR	14	SUN		HOLIDAY
15	WED	9		15	WED	33		15	SAT	57		15	MON		
16	THU	10		16	THU	34		16	SUN		HOLIDAY	16	TUE		
17	FRI	11		17	FRI	35		17	MON	58		17	WED		
18	SAT	12		18	SAT	36		18	TUE	59		18	THU		
19	SUN		HOLIDAY	19	SUN		HOLIDAY	19	WED	60		19	FRI		
20	MON	13		20	MON	37		20	THU	61		20	SAT		
21	TUE	14		21	TUE	38		21	FRI	62		21	SUN		HOLIDAY
22	WED	15		22	WED	39	TELUGU NEW YEAR	22	SAT		RAMZAN	22	MON		
23	THU	16		23	THU	40		23	SUN		HOLIDAY	23	TUE		
24	FRI	17		24	FRI	41		24	MON	63	MODEL	24	WED		
25	SAT	18		25	SAT	42		25	TUE	64	MODEL	25	THU		
26	SUN		HOLIDAY	26	SUN		HOLIDAY	26	WED	65	MODEL	26	FRI		
27	MON	19	IA - I	27	MON	43	IA - II	27	THU	66	MODEL	27	SAT		
28	TUE	20	IA - I	28	TUE	44	IA - II	28	FRI	67	MODEL	28	SUN		HOLIDAY
				29	WED	45	IA - II	29	SAT	68	MODEL	29	MON		
				30	THU	46	IA - II	30	SUN		HOLIDAY	30	TUE		
				31	FRI	47	IA - II					31	WED		



COMMENCEMENT OF CLASSES	06.02.2023
LAST WORKING DAY	12.05.2023
TOTAL NUMBER OF WORKING DAYS	78

PRINCIPAL

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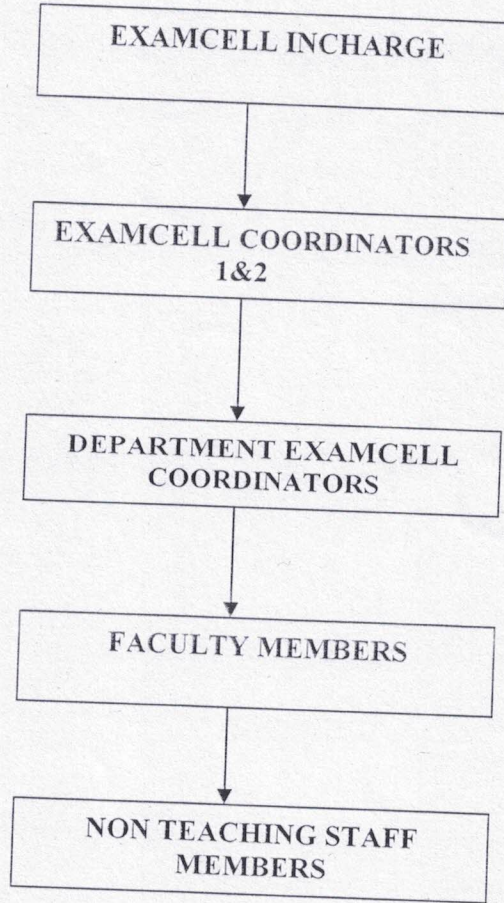
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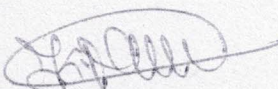
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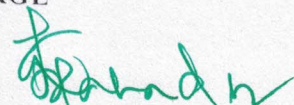
EXAM CELL ORGANIZATIONAL CHART

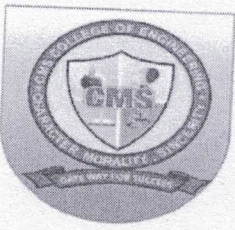



EXAMCELL INCHARGE


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CLASS COMMITTEE MEETING -III

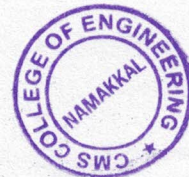
CLASS -II YEAR

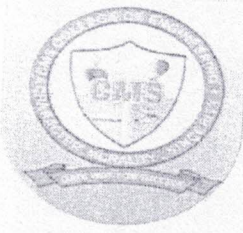
DATE:06/03/2023

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 encouraged 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.

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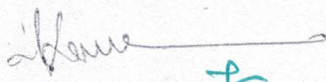
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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

2022-2023 EVEN SEM

The class Committee Meeting for II CSE was conducted on 06.03.2023 by 3.00 pm.

S.No	SUBJECT	COMMENTS	NAME OF THE FACULTY/SIGNATURE
1	Theory of Computation	Good Teaching, more video presentations is needed	Mrs. R.Kaviya, AP/AI&DS
2	Artificial Intelligence and Machine Learning	Good Teaching	Mr. S.Dhinesh, HoD/CSE
3	Database Management Systems	Good Teaching	Mrs. K.Ramya, AP/CSE
4	Algorithms	Good Teaching, additional hours needed for tutorial	Mr. K.Maheshkumar, HoD/AI&DS
5	Introduction to Operating Systems	Good Teaching	Mrs. M.Dhivya, AP/CSE
6	Environmental Sciences and Sustainability	Good Teaching	Ms. V.Renuka, AP/CSE
7	Operating Systems Laboratory	Good	Mrs. M.Dhivya, AP/CSE
8	Database Management Systems Laboratory	Good	Mrs. K.Ramya, AP/CSE
9	Artificial Intelligence and Machine Learning Lab	Good	Mr. S.Dhinesh, HoD/CSE
10	Algorithms Lab	Good	Mr. K.Maheshkumar, HoD/AI&DS

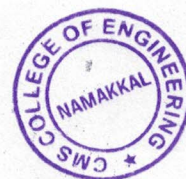


Class Advisor

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HoD/CSE





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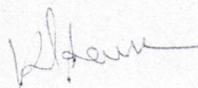
DEPARTMENT OF COMPUTER SCIENCE ENGINEERING


CLASS COMMITTEE MEETING

ACTION PLAN

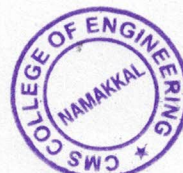
II YEAR B.E COMPUTER SCIENCE ENGINEERING

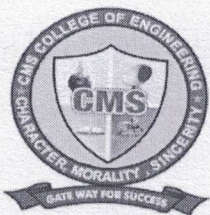
SUBJECT	ISSUE DESCRIPTION	ACTION REQUESTED	OUTCOME
Theory of Computation	Good Teaching, more video presentations is needed	Requesting more no of video presentations	Will present more video presentations
Artificial Intelligence and Machine Learning	-	Not Needed	-
Database Management Systems	-	Not Needed	-
Algorithms	Additional hours needed for tutorial	Requesting Extra hours needed	planned
Introduction to Operating Systems	-	Not Needed	-
Environmental Sciences and Sustainability	-	Not Needed	-
Operating Systems Laboratory	-	Not Needed	-
Database Management Systems Laboratory	-	Not Needed	-
Artificial Intelligence and Machine Learning Lab	-	Not Needed	-
Algorithms Lab	-	Not Needed	-


Class Advisor


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HoD/CSE





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EXAM CELL

ACADEMIC YEAR: 2022-2023 (EVEN SEM)

INTERNAL TEST-I TIME TABLE

CMSCE/EXAMCELL/EVEN/2022-2023/007

DATE: 23.02.2023

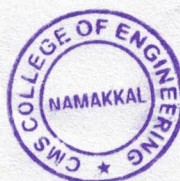
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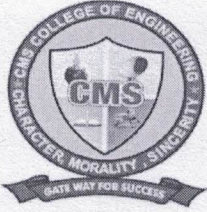
It is informed that the Internal Test – I for Second year UG Students will be scheduled from 27.02.2023 to 4.03.2023.

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

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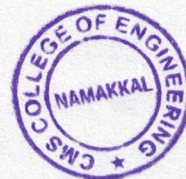
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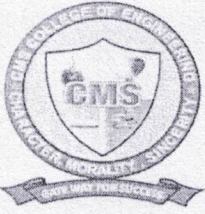
E.mail: cmscollegeofengg@gmail.com, principal602@gmail.com.

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

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- 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

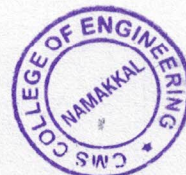
Exam Timings: AN Session:03.00 PM-04.30PM

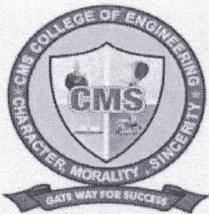
EXCAM CELL COORDINATOR

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

ACADEMIC YEAR: 2022-2023 (EVEN SEM)

INTERNAL TEST-II TIME TABLE

CMSCE/EXAMCELL/EVEN/2022-2023/008

DATE: 23.03.2023

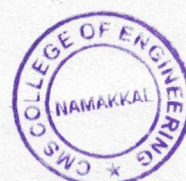
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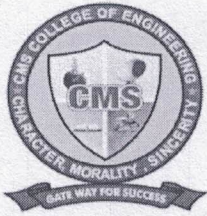
It is informed that the Internal Test – II for Second year UG Students will be scheduled from 27.03.2023 to 01.04.2023.

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

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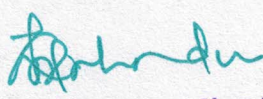
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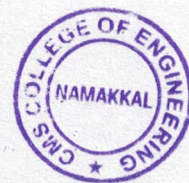
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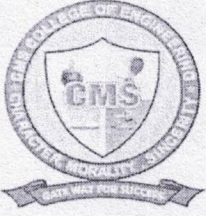
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INTERNAL ASSESSMENT TEST-II SCHEDULE FOR III-YEAR (VI-SEM)

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


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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

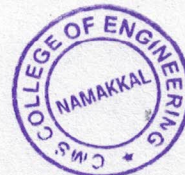
Exam Timings: AN Session:03.00 PM-04.30PM

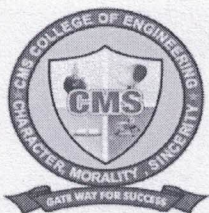
EXCAM CELL COORDINATOR

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EXAM CELL

ACADEMIC YEAR: 2022-2023 (EVEN SEM)

MODEL TEST-I TIME TABLE

CMSCE/EXAMCELL/EVEN/2022-2023/009

DATE: 17.04.2023

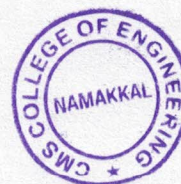
CIRCULAR

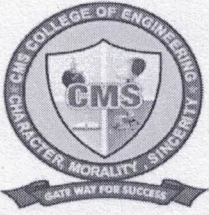
It is informed that the Model Test - I for Second year UG Students will be scheduled from 24.04.2023 to 29.04.2023.

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

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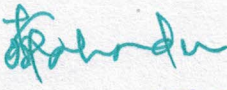
CMS NAGAR, ERNAPURAM (PO), NAMAKKAL – 637 003.

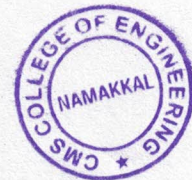
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E.mail: cmscollegeofengg@gmail.com, principal602@gmail.com.

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


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- 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.

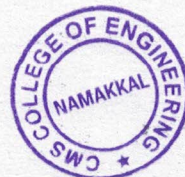
Syllabus: 5 Units

Exam Timings: AN Session:01.30 PM-04.30PM

EXCAM CELL COORDINATOR

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Date: 20.09.2022

CIRCULAR

All the HoD's are requested to instruct the faculties, to prepare the question paper based on the below given pattern for the internal tests.

Questions Paper Pattern:

For Core Departments

Part - A

5x2: 10 Marks (Answer All the Questions)

Part - B

2x13: 26 Marks (Answer All the Questions Either or Choice)

Part - C

1 x 14 = 14 Marks (Either or Choice)

However for Case study/Comprehension type Questions, there will be no choice.

For S&H department

PART -A

5 x2 = 10 Marks (Answer All the Questions)

Part - B

16 x2 = 32 Marks (Answer All the Questions Either or Choice)

8 x 1 = 8 marks (Answer All the Questions either or Choice)

Note:

- At the bottom, left side faculty member who set the question paper should sign with the name in the bracket and the right side HoD signature.
- For part C the question may be asked from any unit within the syllabus covered for the concerned internal test



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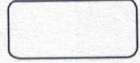
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CMS COLLEGE OF ENGINEERING, NAMAKKAL

DEPARTMENT OF

INTERNAL TEST - 1



Subject Code & Title :
Year / Sem :
Max. Marks : 50 Marks

Dept :
Time : 1.50 Hours

Part-A (5x2=10)

Question 1 to 5

Part-B (2x13=26)

Question 6 to 7

Part-C (1x14=14)

Question 8

SUBJECT STAFF

HoD

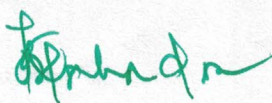
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CO-ORDINATOR

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Copy to:

1. All notice boards
2. All HoD's to be circulated among faculty members and informed to students
3. The principal file
4. Exam cell file




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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)

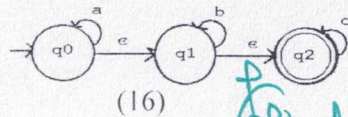
1. Define the epsilon transition.
2. Define NFA.
3. Name any four closure properties of regular expression .
4. Construct a RE to NFA? $(a+b)^*+(abc)^*$
5. What is meant by symbol in computation language.
6. Differentiate Kleene Closure and Positive Closure.
7. Write regular expression to recognize the 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. $(p,0) \rightarrow \{p,q\}$, $(p,1) \rightarrow \{p\}$, $(q,0) \rightarrow \{r\}$, $(q,1) \rightarrow \{r\}$, $(r,0) \rightarrow \{s\}$, $(r,1) \rightarrow \{s\}$, $(s,0) \rightarrow \{s\}$, $(s,1) \rightarrow \{s\}$ (16)

(OR)

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



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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}	\emptyset
q	{q}	{r}	\emptyset	{p}
*r	{r}	\emptyset	{p}	{q}

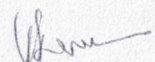
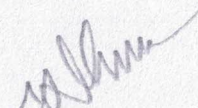
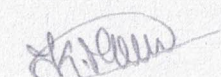
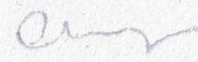
(OR)

- (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	\emptyset	{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





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ACADEMIC YEAR : 2022-2023

INTERNAL EXAM-I DUTY LIST

DATE: 22.09.22

S.NO	STAFF NAME	DESIGNATION / DEPT	24.09.22	25.09.22	26.09.22	27.09.22	28.09.22	29.09.22	SIGNATURE
1	S.DHINESH	HOD/CSE	✓						
2	K.PERIVASAMY	HOD/ECE		✓					
3	G.SURESH	HOD/EEE			✓				
4	G.GOPAL	HOD/MECH						✓	
5	D.ASHOK KUMAR	HOD/BME				✓			
6	M.SELVAKUMAR	HOD/S&H					✓		
7	Mr.S.MADHAN	AP/CSE				✓			
8	Ms.V.RENUKA	AP/CSE	✓		✓		✓		
9	Ms.M.DHIVYA	AP/CSE		✓		✓		✓	
10	Ms.P.SATHIYA PRIYA	AP/CSE	✓			✓		✓	
11	Ms.L.FIRMI SILVIN	AP/CSE	✓		✓		✓		
12	Ms.V.THIRIBURASUNDARI	AP/EEE				✓		✓	
13	Mr.T.CHANDRASEKARAN	AP/EEE			✓		✓		
14	Mr.A.SURESH	AP/EEE	✓		✓		✓		
15	Mr.D.PAULRAJU	AP/EEE		✓		✓			
16	Mr.P.PRABU	AP/ECE	✓			✓	✓		
17	Mr.S.SOUNDRAKUMAR	AP/ECE	✓		✓		✓		
18	Mr.V.SIVAN	AP/ECE		✓					
19	Mr.KARTHIKEYAN	AP/MECH		✓					
20	Mr.R.MANIVEL	AP/MECH			✓			✓	
21	Mr.E.SARAN RAJE	AP/MECH		✓				✓	
22	Mr.M.PRETHIVIRAJAN	AP/MECH		✓			✓		
23	Mr.D.TAMILARASAN	AP/MECH	✓			✓		✓	
24	Mr.V.GOPALAKRISHNAN	AP/MECH			✓		✓		
25	Ms.K.LAKSHMI PRIYA	AP/PHY	✓			✓			
26	Ms.G.GOWTHAMI	AP/ENG		✓			✓		
27	Mr.B.PALANIYANDI	AP/CHE						✓	
28	Mr.M.VELMURUGAN	AP/BME	✓		✓			✓	
29	Mr.A.ABUL KALAM AJATH	AP/BME		✓			✓		
30	Ms.R.KAVIYA	AP/A&DS		✓		✓			

Note: Invigilators are to report to the EXAM CELL 15 minutes earlier before the commencement of Internal Exam. In case any hall invigilator wants to avail leave, he/she has to find an alternate invigilator and reported to Examcell one day before itself.

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INTERNAL EXAM-I

SEATING ARRANGEMENT

MAIN BUILDING HALL NO : 12							
Column 1		Column 2		Column 3		Column 4	
AIDS(SEC-A)		AIDS(SEC-A)		AIDS(SEC-A)		AIDS(SEC-A)	
1	620522243001						
2	620522243002	13	620522243016	14	620522243017	25	620522243031
3	620522243003	12	620522243015	15	620522243018	24	620522243030
4	620522243004	11	620522243014	16	620522243019	23	620522243029
5	620522243005	10	620522243013	17	620522243020	22	620522243028
6	620522243006	9	620522243009	18	620522243021	21	620522243026
7	620522243007	8	620522243008	19	620522243023	20	620522243025



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INTERNAL EXAM-I

SEATING ARRANGEMENT

MAIN BUILDING HALL NO : 13							
Column 1		Column 2		Column 3		Column 4	
AIDS(SEC-A)		AIDS(SEC-A)		AIDS(SEC-A,B)		AIDS(SEC-B)	
1	620522243032						
2	620522243033	13	620522243044	14	620522243045	25	620522243056
3	620522243034	12	620522243043	15	620522243046	24	620522243055
4	620522243035	11	620522243042	16	620522243047	23	620522243054
5	620522243036	10	620522243041	17	620522243048	22	620522243053
6	620522243037	9	620522243040	18	620522243049	21	620522243052
7	620522243038	8	620522243039	19	620522243050	20	620522243051



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INTERNAL EXAM-I

SEATING ARRANGEMENT

MAIN BUILDING HALL NO : 9							
Column 1		Column 2		Column 3		Column 4	
AIDS,BME(SEC-B)		BME(SEC-B)		BME(SEC-B)		BME(SEC-B)	
1	620522243057						
2	620522243058	13	620522121011	14	620522121012	25	620522121024
3	620522121001	12	620522121010	15	620522121013	24	620522121023
4	620522121002	11	620522121009	16	620522121014	23	620522121022
5	620522121003	10	620522121008	17	620522121015	22	620522121021
6	620522121004	9	620522121007	18	620522121016	21	620522121020
7	620522121005	8	620522121006	19	620522121017	20	620522121019



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INTERNAL EXAM-I

SEATING ARRANGEMENT

MAIN BUILDING HALL NO : 10							
Column 1		Column 2		Column 3		Column 4	
BME(SEC-B)		BME(SEC-C)		BME(SEC-C)		BME(SEC-C)	
1	620522121025						
2	620522121026	13	620522121037	14	620522121038	25	620522121049
3	620522121027	12	620522121036	15	620522121039	24	620522121048
4	620522121028	11	620522121035	16	620522121040	23	620522121047
5	620522121029	10	620522121034	17	620522121041	22	620522121046
6	620522121030	9	620522121033	18	620522121042	21	620522121045
7	620522121031	8	620522121032	19	620522121043	20	620522121044



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INTERNAL EXAM-I

SEATING ARRANGEMENT

MAIN BUILDING HALL NO : 11							
Column 1		Column 2		Column 3		Column 4	
BME,CSE(SEC-C)		CSE(SEC-C)		CSE(SEC-C)		CSE(SEC-C)	
1	620522121050						
2	620522121051	13	620522104012	14	620522104013	25	620522104024
3	620522121052	12	620522104010	15	620522104014	24	620522104023
4	620522104001	11	620522104009	16	620522104015	23	620522104022
5	620522104002	10	620522104008	17	620522104016	22	620522104021
6	620522104003	9	620522104006	18	620522104017	21	620522104020
7	620522104004	8	620522104005	19	620522104018	20	620522104019



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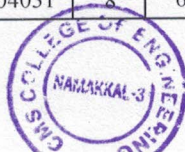
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INTERNAL EXAM-I

SEATING ARRANGEMENT

MAIN BUILDING HALL NO : 05							
Column 1		Column 2		Column 3		Column 4	
CSE(SEC-D)		CSE(SEC-D)		CSE(SEC-D)		CSE(SEC-D)	
1	620522104025						
2	620522104026	13	620522104037	14	620522104039	25	620522104052
3	620522104027	12	620522104036	15	620522104040	24	620522104051
4	620522104028	11	620522104035	16	620522104043	23	620522104050
5	620522104029	10	620522104034	17	620522104044	22	620522104049
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7	620522104031	8	620522104032	19	620522104046	20	620522104047



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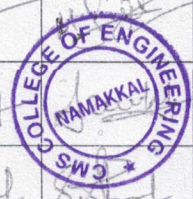
(Approved by AICTE, New Delhi, and Affiliated to Anna University, Chennai-25)
 CMS Nagar, Eranapuram Post, Namakkal Dt., Pin : 637 003, Tamilnadu, India.
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

YEAR/SEM: II / III		INTERNAL EXAM - I - ATTENDANCE				BATCH:2021-2025		
S.NO	REG.NO	NAME	24/9/22	25/9/22	26/9/22	27/9/22	28/9/22	29/9/22
1	620521104001	ASHRAF ALI A	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
2	620521104006	DEEPIKA S	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
3	620521104008	GUNASEKARAN P	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
4	620521104009	JAYASURYA S	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
5	620521104011	KAVIYA S	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
6	620521104012	KEERTHANA M	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
7	620521104013	KUMARESAN R	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
8	620521104016	NANDHAKUMAR K	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
9	620521104017	NAVEENKUMAR P	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
10	620521104019	NIKITHA M	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
11	620521104020	NIVETHA R	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
12	620521104021	PRADHAP K	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
13	620521104022	PRAKASH S	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
14	620521104025	SABARI B	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
15	620521104026	SANJAI A	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
16	620521104027	SANJAY P	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
17	620521104028	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
18	620521104301	ANANTH S	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
19	620521104302	ARULMURUGAN S	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

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20	620521104303	BOOBALAN S	S.Booban	S.Booban	S.Booban	S.Booban	S.Booban	S.Booban
21	620521104304	DINESH M	M.Dindhi	M.Dindhi	M.Dindhi	M.Dindhi	M.Dindhi	M.Dindhi
22	620521104306	KALAISELVAN R	R.Kalai	R.Kalai	R.Kalai	R.Kalai	R.Kalai	R.Kalai
23	620521104308	MEERA C	C.Meera	C.Meera	C.Meera	C.Meera	C.Meera	C.Meera
24	620521104310	SINEGA S	Siniga	Siniga	Siniga	Siniga	Siniga	Siniga
25	620521104311	SRIMATHI K	K.Sri	K.Sri	K.Sri	K.Sri	K.Sri	K.Sri
26	620521104312	THIRUMANI M	Thirumani	Thirumani	Thirumani	Thirumani	Thirumani	Thirumani
27	620521104313	VENGATESAN S	Venk.S	Venk.S	Venk.S	Venk.S	Venk.S	Venk.S
28	620521104314	VINOTHKUMAR R	R.Vinith	R.Vinith	R.Vinith	R.Vinith	R.Vinith	R.Vinith
TOTAL PRESENT			28	28	28	28	28	28
TOTAL ABSENT			0	0	0	0	0	0
STAFF SIGNATURE								

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Register Number

College Code	6205	620521104304
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 K. Mahesh Kumar 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

(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

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Date: 27/2/23 Session: _____ Question Paper Code: _____

Subject Code / Title: CS3452 Theory of Computation

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Instruction to the Candidate: Put a tick mark (✓) for the questions attended in the tick mark column against each question in V-1, V-2 & V-3

PART - A			PART - B & C						Total Marks	Grand Total (in words)	
Question No.	✓	Marks	Question No.	I ✓	I Marks	II ✓	II Marks	III ✓			III Marks
1	✓	2	11	a ✓	7					7	Three One
2	✓	2		b ✓						1	
3	✓	2	12	a ✓						2	
4	✓	2		b ✓	15					15	31
5			13	a ✓							
6	✓	1		b ✓						1	
7			14	a ✓							31
8				b ✓							
9			15	a ✓							
10				b ✓							31
			16	a ✓							
Total	✓	9								29	

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: _____ Signature of the Examiner: _____

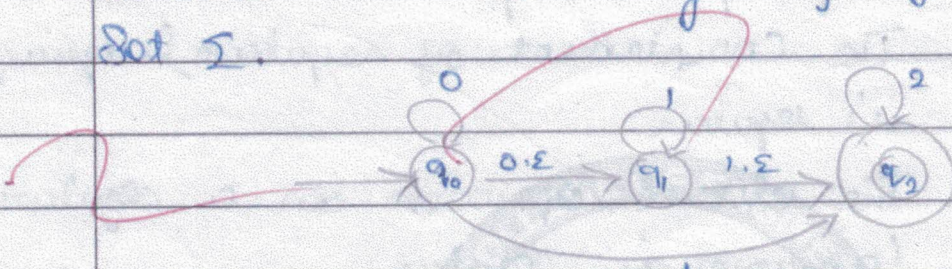


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Part - A.

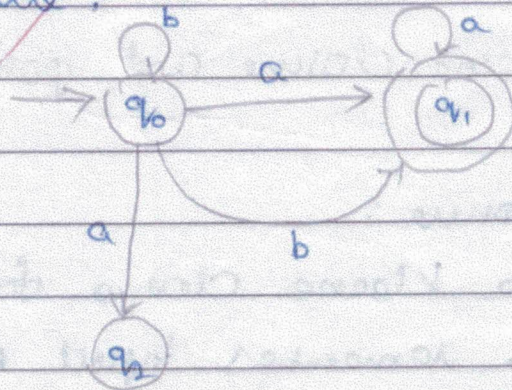
1. Define The epsilon transition.

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 exists many paths for a specific input from current state to next state.



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3 Name any four closure properties of regular expression.

1. The union of two regular languages is regular.

* The concatenation of two regular languages is regular.

* The complement of regular language is regular.

* The closure operation on a regular language is regular.

4 What is meant by symbol in computation language.

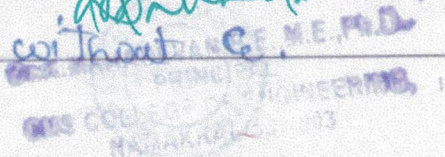
For any symbol if there does not exist derivation which could generate terminal string, then that symbol is called useless symbol.

6. Diff/- Kleene closure and positive closure.

Kleene closure:

* The Kleene closure for have memory to remember input symbol!

* It is always ~~the~~ ^{the} ~~presence~~ ^{presence} of NFA with ~~and~~ ^{and} without ~~ε~~ ^ε.



Positive closure:

* This is model has stack memory to remember input symbols.

* It has two versions - deterministic PDA.

Part-B

Q (a) Explain the equivalence 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 automaton. Then there exists a deterministic finite automaton that accepts L .

Prove that a language L is accepted by some DFA if and only if L is accepted by some NFA.

Proof: Let

$M = (Q, \Sigma, \delta, q_0, F)$ be an NFA for language

L . Then define NFA M' s.t. $M' = (Q', \Sigma', \delta', q_0', F')$



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The Element in Q' will be denoted by $(q_1, q_2, q_3, \dots, q_i)$ 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.

$\delta'([q_1, q_2, \dots, q_i], a) = [p_1, p_2, p_3, \dots, p_j]$
if and only if.

$\delta'([q_1, q_2, \dots, q_i], a) = \{p_1, p_2, p_3, \dots, p_j\}$

Basic: if length of input string is 0
 $|s| = 0$ then means ϵ is ϵ then $q'_0 = [q_0]$

Induction: if we assume that the hypothesis is true and then we have not assumed that belongs some derivation process that have has induction process is called has induction process.

$\delta'([p_1, p_2, \dots, p_j], a) = \{r_1, r_2, \dots, r_k\}$

Then

$\delta'(q'_0, xa) = [r_1, r_2, \dots, r_k]$

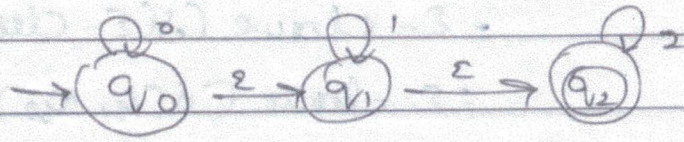
$L(M) = L(M')$

Then the theorem is ~~proved~~ ~~proved~~ ~~proved~~ with DFA.



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Q Convert the given NFA with ϵ to NFA without ϵ .



Ans:

Here prove that the process is.

$$\epsilon\text{-closure}(q_0) = \{q_0, q_1, q_2\}$$

$$\epsilon\text{-closure}(q_1) = \{q_1, q_2\}$$

$$\epsilon\text{-closure}(q_2) = \{q_2\}$$

Now we will obtain δ' function for each state on each input symbols.

$$\delta'(q_0, 0, \epsilon\text{-closure}(\delta(q_0, \epsilon), 0))$$

$$= \epsilon\text{-closure}(\delta(\epsilon\text{-closure}(q_0), 0))$$

$$= \epsilon\text{-closure}(\delta(q_0, q_1, q_2), 0)$$

$$= \epsilon\text{-closure}(\delta(q_0, 0) \cup (q_1, 0) \cup (q_2, 0))$$

$$= \epsilon\text{-closure}(q_0) = \{q_0, q_1, q_2\}$$

$$\delta'(q_0, 1) = \epsilon\text{-closure}(\delta(\delta(q_0, \epsilon), 1))$$

$$= \epsilon\text{-closure}(\delta(q_0, q_1, q_2), 1)$$

$$= \epsilon\text{-closure}(\phi \cup q_1 \cup \phi)$$

$$= \epsilon\text{-closure}(q_1)$$

$$\delta'(q_0, 1) = \{q_1, q_2\}$$



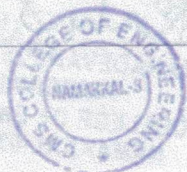
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$$\begin{aligned}
 \delta'(q_1, 1) &= \epsilon\text{-closure}(\delta(\delta(q_1, \epsilon), 1)) \\
 &= \epsilon\text{-closure}(\delta(\epsilon\text{-closure}(q_1), 1)) \\
 &= \epsilon\text{-closure}(\delta(q_1, q_2), 1) \\
 &= \epsilon\text{-closure}(q_1, \cup \phi) \\
 &= \epsilon\text{-closure}(q_1) = \{q_1, q_2\}
 \end{aligned}$$

$$\begin{aligned}
 \delta'(q_2, 0) &= \epsilon\text{-closure}(\delta(\delta(q_2, \epsilon), 0)) \\
 &= \epsilon\text{-closure}(\delta(\epsilon\text{-closure}(q_2), 0)) \\
 &= \epsilon\text{-closure}(\delta(q_2, 0)) \\
 &= \epsilon\text{-closure}(\phi) \\
 &= \phi
 \end{aligned}$$

$$\begin{aligned}
 \delta'(q_0, 2) &= \epsilon\text{-closure}(\delta(\delta(q_0, \epsilon), 2)) \\
 &= \epsilon\text{-closure}(\delta(\epsilon\text{-closure}(q_0), 2)) \\
 &= \epsilon\text{-closure}(\delta(q_0, q_1, q_2), 2) \\
 &= \epsilon\text{-closure}(\delta(q_0, 2) \cup \delta(q_1, 2) \cup \delta(q_2, 2)) \\
 &= \epsilon\text{-closure}(\phi, \cup \phi \cup q_2) \\
 &= \epsilon\text{-closure}(q_2) \\
 &= \{q_2\}
 \end{aligned}$$

$$\begin{aligned}
 \delta'(q_1, 2) &= \epsilon\text{-closure}(\delta(\delta(q_1, \epsilon), 2)) \\
 &= \epsilon\text{-closure}(\delta(\epsilon\text{-closure}(q_1), 2)) \\
 &= \epsilon\text{-closure}(\delta(q_1, q_2), 2) \\
 &= \epsilon\text{-closure}(\delta(q_1, q_2), 2) \\
 &= \epsilon\text{-closure}(\delta(q_1, q_2) \cup (q_2, 2)) \\
 &= \epsilon\text{-closure}(\{q_2\}) \\
 &= \{q_2\}
 \end{aligned}$$



$$\begin{aligned}
 \delta'(q_2, 2) &= \epsilon\text{-closure}(\delta(\delta(q_0, \epsilon), 2)) \\
 &= \epsilon\text{-closure}(\delta(\epsilon\text{-closure}(q_0), 2)) \\
 &= \epsilon\text{-closure}(\delta(q_0, 2)) \\
 &= \epsilon\text{-closure}(q_2) \\
 &= \{q_2\}
 \end{aligned}$$

Now we will summarize all the computed δ' transitions.

$$\delta'(q_0, 0) = \{q_0, q_1, q_2\}$$

$$\delta'(q_0, 1) = \{q_1, q_2\}$$

$$\delta'(q_0, 2) = \{q_2\}$$

$$\delta'(q_0, 0) = \{\emptyset\}$$

$$\delta'(q_1, 1) = \{q_1, q_2\}$$

$$\delta'(q_1, 2) = \{q_2\}$$

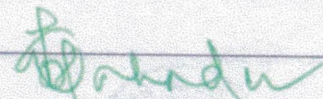
$$\delta'(q_2, 0) = \{\emptyset\}$$

$$\delta'(q_2, 1) = \{\emptyset\}$$

$$\delta'(q_2, 2) = \{q_2\}$$

And then we can write the transition table as shown as given below in the table of Deterministic and non Deterministic finite automata.




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ASSIGNMENT -01

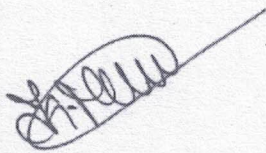
Name : Mumthaj Begam. E

Sub : Problem Solving & Python
Programming,

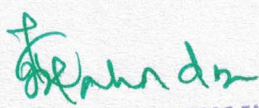
Sub Code : GE3151

Dept : I-st year B.Tech (AI & DS)

Date : 25/10/22.





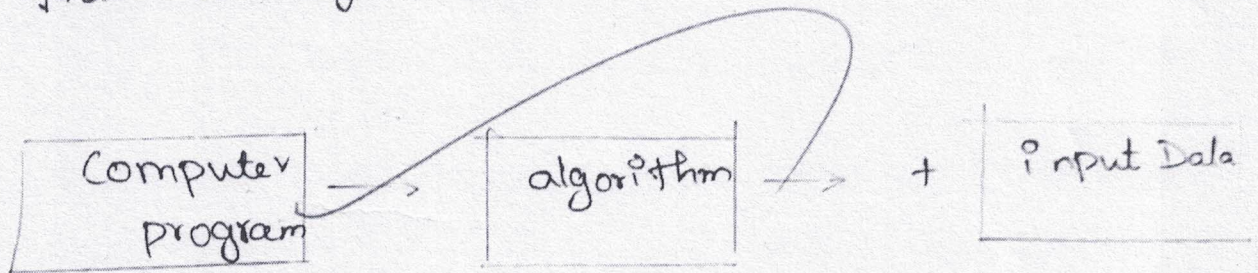

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ALGORITHM:-

The sequence of steps to be performed in order to solve a problem by the computer is known as an algorithm.

Programs = Algorithms + Data

Another way to describe algorithm is the sequence of unambiguous instructions. It starts from an initial input of instructions that describe a computation that proceeds through a finite number of well-defined successive steps, producing an output and a final ending state.



Phase 1: Algorithmic phase



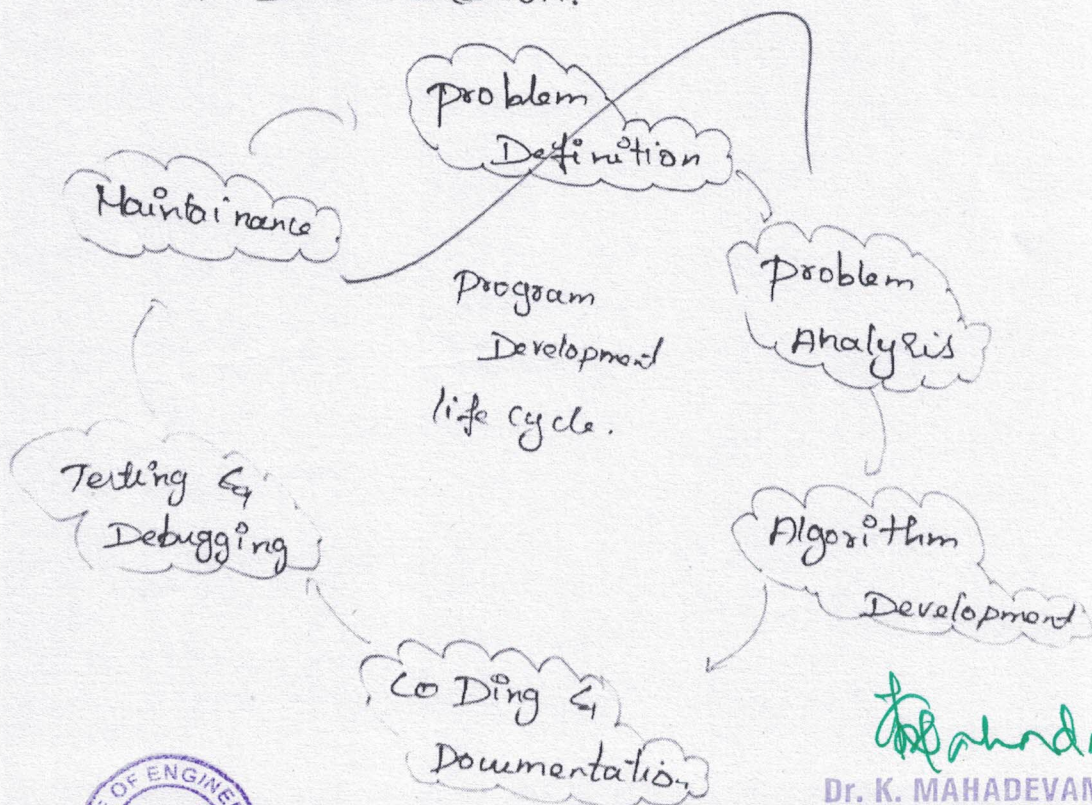
Phase 2: Coding Phase

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STEPS IN PROBLEM SOLVING:-

The problem solving process starts with the problem specification and end with a correct program, the steps in the problem solving process are:

- * Problem Definition
- * Problem Analysis
- * Algorithm Development
- * Program Coding
- * Program Testing & Debugging
- * Documentation.



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1. Problem Definition:

Define or specify problem by answering to the following questions:-

- * What the computer program do?
- * What tasks will it perform
- * What kind of data will it use, and where will it get the data?
- * What will be output of the program?
- * How will the program interact with the computer user?

2. Problem Analysis:

Analysis the problem involves

- * Identifying the problem inputs
- * Check any additional requirements or constraints.
- * Determine the required format of the results to be displayed.

3. Algorithm Development:

Find an algorithm for its solution.

An algorithm is a finite set of steps defining a solution of a particular problem.

Write step - step procedure

and
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Verify that the algorithm solves the problem as intended. The algorithm development can be expressed by.

i) Pseudocode:-

Pseudocode describes the outline of a program, written in a form that can easily be converted into real programming statements.

ii) Flowchart:-

Flowchart is the diagrammatic representation of the algorithm.

4. Program Coding:-

Coding or programming is the process of translating the algorithm into the syntax of a given programming language. Convert each step in the algorithm into one or more statements in programming language.

5. Program Testing & Debugging:-

Program testing means running the program and executing all its instructions.



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as function step by step.

* Syntax error

* Runtime error

* Logic error (or so called bugs)

6. Documentation.

Documenting the program is done by

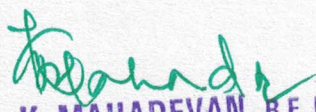
i) Internal documentation

Internal documentation consists of remarks or comments written the program instruction to explain what is being done in the program.

ii) External Documentation:-

External Documentation is made up of the manuals or help menus written about the solution.




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PYTHON DATATYPES:-

In python, everything is represented as an object and every object has an identifier a type and a value, python has five standard data types.

- * Numbers
- * String
- * List
- * Tuple
- * Set
- * Dictionary

Numbers:

Numbers data types store numeric values. python has three number types; integer numbers, floating point numbers, and complex numbers. Integers can be any of length and is limited by the memory size. A number prefixed by a 0 (zero) is interpreted as ~~an octal~~ ^{hexadecimal} number.



Hexadecimal numbers are prefixed either by "0x" or "0X"

Program:

```
a = 55  
print (a)  
b = 0010  
print (b)  
c = 0x10  
print (c)
```

output:

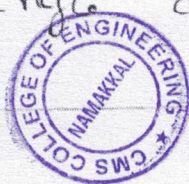
55
8
16

Syntax:

del variable name.

Strings:

String is a sequence of characters (numbers, and special characters enclosed within single quote (' ') or double quote (" ").



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python starts numbering at 0.

program:

```
str = "python program!"
```

```
print(str)
```

```
print(str[0])
```

```
print(str[7:10])
```

```
print(str[7:])
```

```
print(str * 2)
```

```
print(str + "Ver 3.4")
```

output:

python program

p.

List:

List is one of the most used data type in python and is an ordered sequence placing all the times (elements) inside a square bracket `[]`, separated by commas.



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Tuple:

A tuple is another sequence data type similar to list. A tuple consists of a sequence of elements separated by commas. The main difference between list and tuple is that lists are enclosed in brackets [] and tuples are enclosed in parentheses ().

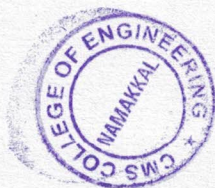
Sets:

A set is an unordered collection of elements. Every element is unique and cannot be changed. A set is created by placing all items (elements) inside curly braces { } and separated by commas.

Dictionary:

Python dictionary is a container of the unordered set of elements like list. The elements are surrounded by curly braces.

pg.



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Program:

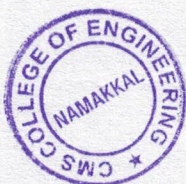
```
dict = {'Name': 'John', 'SSN': 4568, 'Designation':  
Manager}  
print ("dict ['Name']: ", dict ['Name'])  
print ("dict ['SSN']: ", dict ['SSN'])  
print ("dict ['Designation']: ", dict ['Designation'])
```

Output:

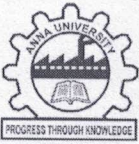
dict ['Name']: John

dict ['SSN']: 4568

dict ['Designation']: Manager



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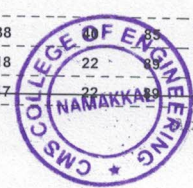
Inst Code & Name : 6205 - CMS COLLEGE OF ENGINEERING

Branch Code / Name : 104 : B.E. Computer Science and Engineering University : AUC
Semester : 04

Register No.	Name of the Student	Subjects	Attend hr 1	Total hr 1	Attend hr 2	Total hr2	IM 2	Attend hr 3	Tot hr 3	IM 3	Attend hr 4	Total hr4	IM 4		
620521104001	ASHARAF ALI A	CS3401						37	40	91	35	40	82		
		CS3451						17	22	94	25	25	94		
		CS3452						20	22	77	28	28	90		
		CS3461										45	45	90	
		CS3481										45	45	90	
		CS3491							39	40	89	38	45	88	
		CS3492							21	22	79	25	25	79	
		GE3451							15	17	90	18	20	92	
		NCCXX1													
		SB8021											45	45	91
		620521104006	DEEPIKA S	CS3401						0	40	0	0	40	0
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620521104008	GUNASEKARAN P			CS3401						38	40	92	35	40	89
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CS3452								17	22	89	26	28	85		
CS3461															

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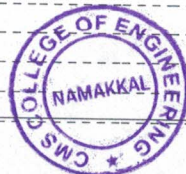
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		NCCXX1						

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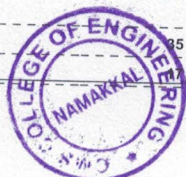
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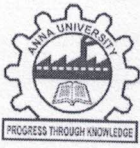
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	GE3451						
	NCCXX1						

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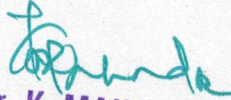
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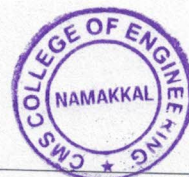
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Inst Code & Name : 6205 - CMS COLLEGE OF ENGINEERING

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	GE3451	0	17	0	0	20	0
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(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai.)

PRACTICAL RECORD

BONAFIDE CERTIFICATE

REGISTER NUMBER

620622105015

Certified that this is the bonafide record work done by
Mr/Miss SITRARASU.S semester I
BE - Electrical & Electronic ENGINEERING branch during the
Academic Year 2022-2023 in the
BS 3171 - CHEMISTRY LAB

Staff in charge

Head of the Department

Submitted for the University Practical Examination held on 30/3/23 A.N

Internal Examiner

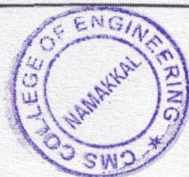
External Examiner



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CONTENTS

S.No.	Date	Name of Experiment	Page No.	Marks	Sign	Remarks
1.	29/11/22	determination of alkalinity in water sample	4	10	TKJ	
2.	6/12/22	determination of total hardness and permanent hardness of water - by EDTA	10	9	TKJ	
3.	13/12/22	determination of dissolved oxygen content of water sample by Winkler's method	13	8	TKJ	
4.	20/12/22	determination of chloroform content of water sample by Argentometric method	15	9	TKJ	
5.	27/12/22	determination of strength of given in HCl using pH meter	20	9	TKJ	



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TITRATION - I

HCl vs std. NaOH

S. no	Volume of NaOH (ml)	Burette readings (ml)		Concordant volume of HCl (ml)	Indicator
		Initial	Final		
1.	20	0	18		Phenolphthalein
2.	20	0	18	18	
3.	20	0	18		

Volume of NaOH $V_1 = 20 \text{ ml}$

Normality of NaOH $N_1 = 0.1 \text{ N}$

Volume of HCl $V_2 = 18 \text{ ml}$

Normality of HCl $N_2 = ?$

According to the law of volumetric analysis

$$V_1 N_1 = V_2 N_2$$

$$N_2 = \frac{V_1 \times N_1}{V_2}$$

$$= \frac{20 \text{ ml} \times 0.1 \text{ N}}{18 \text{ ml}}$$

$$= 0.1 \text{ N}$$



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Expt. No.: 01

Date: 29/11/22

Page No.

DETERMINATION OF ALKALINITY IN WATER SAMPLE

Aim:

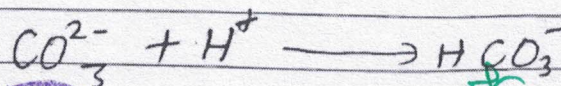
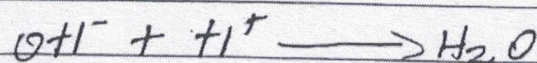
To determine the type and amount of alkalinity present in the given sample. A standard solution of sodium hydroxide acid of strength 0.1N and a link solution of hydrochloric acid are provided.

Principle

Alkalinity is caused by the presence of hydroxide carbonate and bicarbonate, these are three alkalinity conditions possible in a given sample of water hydroxide only, carbonate only, bicarbonate only, combination of carbonate and hydroxide or carbonate and bicarbonate. The various alkalinity can be determined by titrating with a standard acid using phenolphthalein and methyl orange indicator successively.

1) Phenolphthalein end point

When alkaline water is titrated acid using phenolphthalein indicator, hydroxide alkalinity is completely neutralised and carbonate alkalinity is partially neutralised.



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TITRATION II & III (for water sample - I)
water sample vs std. HCl

S. NO	volume of water sample (ml)	Burette readings (ml)		concordant volume of HCl (ml)	
		Phenolphthalein end point [P]	methyl orange end point [M]	[P]	[M]
1	20	14	16		
2	20	14	16	14	16
3	20	14	16		

calculations:

(i) volume of HCl required for $[OH^-]$ alkalinity

$$= 2[P] - [M]$$

$$= 2 \times 14 - 16$$

$$= 12 \text{ ml}$$

(ii) volume of HCl required for $[CO_3^{2-}]$ alkalinity

$$= 2[M] - 2[P]$$

$$= 2 \times 16 - 2 \times 14$$

$$= 4 \text{ ml}$$

(iii) HCO_3^- is not present.



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PORFORMA
ANNA UNIVERSITY CHENNAI, CHENNAI – 25
PRACTICAL EXAMINATIONS NOV/DEC - 2022
(Regulation 2017 & 2021)

TENTATIVE TIME – TABLE & PANEL OF EXAMINERS

COLLEGE CODE & NAME

: 6205 & CMS COLLEGE OF ENGINEERING

BRANCH & SEMESTERS

: COMPUTER SCIENCE AND ENGINEERING & 3,4,5

DEPARTMENT CONDUCTING THE LAB

: PROGRAMMING LAB

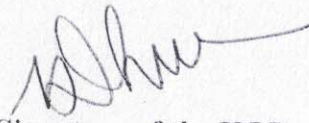
S. No.	Degree, Branch	Sem & Regulation	Date of Exam	No. of Candidates		No. of Batches	Time	Sub code	Name of the Practical	Internal Examiner (with Designation & Department)	External Examiner (Appointed by the University)
				Regular	Arrear						
1.	B.E, CSE	3 & 2017	27.01.2023	-	3	1	01.00 pm to 4.00 pm	CS8381	Data Structures Laboratory	Mr.K.Maheshkumar AP/CSE	
2.	B.E, CSE	3 & 2017	30.01.2023	-	1	1	01.00 pm to 4.00 pm	CS8382	Digital Systems Laboratory	Mr.K.Periyasamy AP/ECE	
3.	B.E, CSE	3 & 2017	29.01.2023	-	2	1	01.00 pm to 4.00 pm	CS8383	Object Oriented Programming Laboratory	Mr.S.Dhinesh AP/CSE	
4.	B.E, CSE	4 & 2017	28.01.2023	-	4	1	09:30 am to 12.30pm	CS8461	Operating System Laboratory	Mr.S.Dhinesh AP/CSE	
5.	B.E, CSE	4 & 2017	28.01.2023	-	4	1	01.00 pm to 4.00 pm	CS8481	Database Management Systems Laboratory	Mr.S.Dhinesh AP/CSE	
6.	B.E, CSE	4 & 2017	31.01.2023	-	4	1	01.00 pm to 4.00 pm	HS8461	Advanced Reading and Writing	Mr.M.Karthick AP/Eng	
7.	B.E, CSE	5 & 2017	27.01.2023	14	-	1	09:30 am to 12.30pm	CS8581	Networks Laboratory	Mr.S.Dhinesh AP/CSE	




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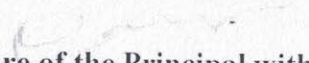
8.	B.E, CSE	5 & 2017	29.01.2023	14	-	1	09:30 am to 12.30pm	CS8582	Object Oriented Analysis and Design Laboratory	Mr.K.Maheshkumar AP/CSE
9.	B.E, CSE	5 & 2017	30.01.2023	14	-	1	09:30 am to 12.30pm	EC8681	Microprocessors and Micro controllers Laboratory	Mr.K.Periyasamy AP/ECE
10.	B.E, CSE	3 & 2021	27.01.2023	28	-	1	09:30 am to 12.30pm	CS3311	Data Structures Laboratory	Mr.K.Maheshkumar AP/CSE
11.	B.E, CSE	3 & 2021	29.01.2023	28	-	1	09:30 am to 12.30pm	CS3361	Data Science Laboratory	Mrs.K.Ramya AP/CSE
12.	B.E, CSE	3 & 2021	28.01.2023	28	-	1	09:30 am to 12.30pm	CS3381	Object Oriented Programming Laboratory	Mr.K.Maheshkumar AP/CSE
13.	B.E, CSE	3 & 2021	31.01.2023	28	-	1	09:30 am to 12.30pm	GE3361	Professional Development	Mr.M.Karthick AP/Eng

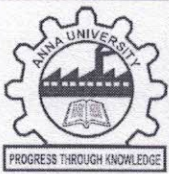
(NOTE: Do not recommend the internal examiners who are having less than 3 yrs of experience)


Signature of the HOD




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


Signature of the Principal with Seal
PRINCIPAL
CMS COLLEGE OF ENGINEERING,
NAMAKKAL-637 003.



ANNA UNIVERSITY :: CHENNAI - 600 025
OFFICE OF THE CONTROLLER OF EXAMINATIONS

Internal / External Appointment - Copy to Reporting College

25 January 2023

From
The Zonal Coordinator
 Anna University
 Chennai 25.

To
The Principal
 CMS COLLEGE OF ENGINEERING (6205)

Through the Principal

Sir / Madam,

Sub: Appointment of Internal/External Examiners for Practical/Project
 Viva-voce Examinations Nov. / Dec. Examination,2022 - Intimation Reg.

Based on the information received from the Principals of the Colleges concerned and the information provided by you, the list of the Internal and the External Examiners appointed to your College to conduct the Practical/Project Viva-voce Examinations Nov. / Dec. Examination,2022 along with the schedule of the Examinations are given below.

S.No.	Degree, Branch & University	Name of the Practical Subject with code	Date	Time	Number of candidates appearing (approx.)	Name of the Internal Examiner / Supervisor	Name of the External Examiner
1	106 - B.E. Electronics and Communication Engineering - AUC	EC3361 - Electronic Devices and Circuits Laboratory	27-01-2023	09:30 AM	6	6212098 - PERIYASAMY K	6221044 - SATHEESHKUMAR S Ph.:9965805965
URL :							
2	104 - B.E. Computer Science and Engineering - AUC	CS3311 - Data Structures Laboratory	27-01-2023	09:30 AM	28	6205217 - K MAHESHKUMAR	6116356 - PREMKUMAR M Ph.:8144828828
URL :							
3	114 - B.E. Mechanical Engineering - AUC	ME8511 - Kinematics and Dynamics Laboratory	27-01-2023	09:30 AM	29	8106097 - SELVAKUMAR M	6115093 - RAMAMOORTHY M Ph.:0801599411
URL :							
4	114 - B.E. Mechanical Engineering - AUC	ME3381 - Computer Aided Machine Drawing	27-01-2023	09:30 AM	15	6205143 - D ASHOKKUMAR	6115093 - RAMAMOORTHY M Ph.:0801599411
URL :							
5	104 - B.E. Computer Science and Engineering - AUC	CS8581 - Networks Laboratory	27-01-2023	09:30 AM	14	6205173 - DHINESH S	6116356 - PREMKUMAR M Ph.:8144828828
URL :							
6	106 - B.E. Electronics and Communication Engineering - AUC	EC8561 - Communication Systems Laboratory	27-01-2023	09:30 AM	6	6212098 - PERIYASAMY K	6221044 - SATHEESHKUMAR S Ph.:9965805965
URL :							
7	105 - B.E. Electrical and Electronics Engineering - AUC	EE8511 - Control and Instrumentation Laboratory	27-01-2023	10:00 AM	22	6205242 - SURESH G	6218076 - R BANUPRIYA Ph.:9500596806
URL :							
8	105 - B.E. Electrical and Electronics Engineering - AUC	EC3311 - Electronic Devices and Circuits Laboratory	27-01-2023	10:00 AM	6	6205242 - SURESH G	6221044 - SATHEESHKUMAR S Ph.:9965805965
URL :							
9	114 - B.E. Mechanical Engineering - AUC	CE8381 - Strength of Materials and Fluid Mechanics and Machinery Laboratory	27-01-2023	13:00 PM	2	6205172 - G GOPAL	6115093 - RAMAMOORTHY M Ph.:0801599411
URL :							
10	104 - B.E. Computer Science and Engineering - AUC	CS8381 - Data Structures Laboratory	27-01-2023	13:00 PM	3	6205217 - K MAHESHKUMAR	6116356 - PREMKUMAR M Ph.:8144828828

25-01-2023



Phone No.: 0427-2345477
 Email ID: srineveathi@gmail.com

D.K. MAHADEVAN, B.E., M.E., Ph.D
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 University - COE
CMS COLLEGE OF ENGINEERING,
 NAMAKKAL - 627 002



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Internal / External Appointment - Copy to Reporting College

PROGRESS THROUGH KNOWLEDGE

11	105 - B.E. Electrical and Electronics Engineering - AUC	EE8461 - Linear and Digital Integrated Circuits Laboratory	27-01-2023	13:00 PM	2	6205242 - SURESH G	6218076 - R BANUPRIYA Ph.:9500596806
URL :							
12	104 - B.E. Computer Science and Engineering - AUC	CS3381 - Object Oriented Programming Laboratory	28-01-2023	09:30 AM	28	6205217 - K MAHESHKUMAR	6116356 - PREMKUMAR M Ph.:8144828828
URL :							
13	114 - B.E. Mechanical Engineering - AUC	ME3382 - Manufacturing Technology Laboratory	28-01-2023	09:30 AM	15	6205172 - G GOPAL	6222072 - P ELANCHEZHIAN Ph.:8870296699
URL :							
14	106 - B.E. Electronics and Communication Engineering - AUC	EC8562 - Digital Signal Processing Laboratory	28-01-2023	09:30 AM	6	6212098 - PERIYASAMY K	6221044 - SATHEESHKUMAR S Ph.:9965805965
URL :							
15	114 - B.E. Mechanical Engineering - AUC	ME8512 - Thermal Engineering Laboratory	28-01-2023	09:30 AM	29	8106097 - SELVAKUMAR M	6222072 - P ELANCHEZHIAN Ph.:8870296699
URL :							
16	104 - B.E. Computer Science and Engineering - AUC	CS8461 - Operating Systems Laboratory	28-01-2023	09:30 AM	4	6205173 - DHINESH S	6116356 - PREMKUMAR M Ph.:8144828828
URL :							
17	106 - B.E. Electronics and Communication Engineering - AUC	EC3352 - Digital Systems Design	28-01-2023	09:30 AM	6	6212098 - PERIYASAMY K	6221044 - SATHEESHKUMAR S Ph.:9965805965
URL :							
18	105 - B.E. Electrical and Electronics Engineering - AUC	EE3311 - Electrical Machines - I Laboratory - I	28-01-2023	10:00 AM	6	6205242 - SURESH G	6218076 - R BANUPRIYA Ph.:9500596806
URL :							
19	104 - B.E. Computer Science and Engineering - AUC	CS8481 - Database Management Systems Laboratory	28-01-2023	13:00 PM	4	6205173 - DHINESH S	6116356 - PREMKUMAR M Ph.:8144828828
URL :							
20	114 - B.E. Mechanical Engineering - AUC	ME8462 - Manufacturing Technology Laboratory - II	28-01-2023	13:00 PM	2	6205143 - D ASHOKKUMAR	6222072 - P ELANCHEZHIAN Ph.:8870296699
URL :							
21	105 - B.E. Electrical and Electronics Engineering - AUC	EE8411 - Electrical Machines Laboratory - II	28-01-2023	13:00 PM	4	6205242 - SURESH G	6218076 - R BANUPRIYA Ph.:9500596806
URL :							
22	104 - B.E. Computer Science and Engineering - AUC	CS8582 - Object Oriented Analysis and Design Laboratory	29-01-2023	09:30 AM	14	6205217 - K MAHESHKUMAR	6116356 - PREMKUMAR M Ph.:8144828828
URL :							
23	104 - B.E. Computer Science and Engineering - AUC	CS3361 - Data Science Laboratory	29-01-2023	09:30 AM	28	6205239 - RAMYA K	6116356 - PREMKUMAR M Ph.:8144828828
URL :							
24	104 - B.E. Computer Science and Engineering - AUC	CS8383 - Object Oriented Programming Laboratory	29-01-2023	13:00 PM	2	6205173 - DHINESH S	6116356 - PREMKUMAR M Ph.:8144828828
URL :							
25	105 - B.E. Electrical and Electronics Engineering - AUC	CS8383 - Object Oriented Programming Laboratory	29-01-2023	13:00 PM	22	6205173 - DHINESH S	6221378 - DEEPA B Ph.:8883736362
URL :							
26	106 - B.E. Electronics and Communication Engineering - AUC	CS3362 - C Programming and Data Structures Laboratory	30-01-2023	09:30 AM	6	6205173 - DHINESH S	6221378 - DEEPA B Ph.:8883736362
URL :							
27	104 - B.E. Computer Science and Engineering - AUC	EC8681 - Microprocessors and Microcontrollers Laboratory	30-01-2023	09:30 AM	14	6212098 - PERIYASAMY K	6218076 - R BANUPRIYA Ph.:9500596806
URL :							
28	114 - B.E. Mechanical Engineering - AUC	ME8513 - Metrology and Measurements Laboratory	30-01-2023	09:30 AM	29	6205172 - G GOPAL	6115093 - RAMAMOORTHY M Ph.:0801599411
URL :							
29	106 - B.E. Electronics and Communication Engineering - AUC	EC8563 - Communication Networks Laboratory	30-01-2023	09:30 AM	6	6212098 - PERIYASAMY K	6221044 - SATHEESHKUMAR S Ph.:9965805965

Zone Code/Name: 62/ZONE VIII : Salem

Fax No.: 0427-2345477

Phone No.: 0427-2345477

Email ID: srineveathi@gmail.com

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

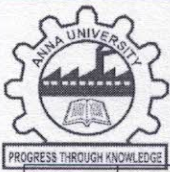
PRINCIPAL

Anna University - COE

**GMS COLLEGE OF ENGINEERING,
NAMAKKAL - 637 003**

25-01-2023





ANNA UNIVERSITY :: CHENNAI - 600 025
OFFICE OF THE CONTROLLER OF EXAMINATIONS

Internal / External Appointment - Copy to Reporting College

30	105 - B.E. Electrical and Electronics Engineering - AUC	CS3362 - C Programming and Data Structures Laboratory	30-01-2023	10:00 AM	6	6205173 - DHINESH S	6221378 - DEEPA B Ph.:8883736362
URL :							
31	104 - B.E. Computer Science and Engineering - AUC	CS8382 - Digital Systems Laboratory	30-01-2023	13:00 PM	1	6212098 - PERIYASAMY K	6221044 - SATHEESHKUMAR S Ph.:9965805965
URL :							
32	105 - B.E. Electrical and Electronics Engineering - AUC	EE8311 - Electrical Machines Laboratory - I	30-01-2023	13:00 PM	1	6205242 - SURESH G	6218076 - R BANUPRIYA Ph.:9500596806
URL :							
33	104 - B.E. Computer Science and Engineering - AUC	CS3351 - Digital Principles and Computer Organization	30-01-2023	13:00 PM	28	6212098 - PERIYASAMY K	6221044 - SATHEESHKUMAR S Ph.:9965805965
URL :							
34	114 - B.E. Mechanical Engineering - AUC	HS8461 - Advanced Reading and Writing	31-01-2023	09:30 AM	2	6205249 - KARTHICK	6213290 - SANGAVI B Ph.:7708825632
URL :							
35	104 - B.E. Computer Science and Engineering - AUC	HS8461 - Advanced Reading and Writing	31-01-2023	09:30 AM	4	6205249 - KARTHICK	6213290 - SANGAVI B Ph.:7708825632
URL :							
36	105 - B.E. Electrical and Electronics Engineering - AUC	HS8581 - Professional Communication	31-01-2023	10:00 AM	22	6205249 - KARTHICK	6213290 - SANGAVI B Ph.:7708825632
URL :							

You are requested ensure the conduct of the practical examinations as per the above schedule in the presence of both the Internal and External Examiners and to give necessary instructions to the Internal Examiner i) to keep the lab ready ii) to apprise the External Examiners about the Laboratory facilities available well in advance

You are further requested to send the following documents pertaining to all the Practical Examinations to the Controller of the Examinations by name within two days after the completion of the all the Practical Examinations.

- i. The mark statement signed by both Internal and External examiner in a sealed cover.
- ii. The attendance sheets.
- iii. A copy of the question paper

Allowance to incidental expenses and remuneration for conducting the Practical Examinations has to be paid by you to the staff concerned on the last day of the examination concerned.

The above orders have to be kept strictly confidential. Your kind cooperation is requested in this regard.

Yours Faithfully,
Zonal Coordinator



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

Zone Code/Name: 62/ZONE VIII : Salem

Fax No.: 0427-2345477

Phone No.: 0427-2345477

Email ID: srineveathi@gmail.com

25-01-2023

Anna University - COE



ANNA UNIVERSITY, CHENNAI - 600 025
TIME TABLE-B.E./B.Tech./B.Arch. DEGREE EXAMINATIONS
NOVEMBER/DECEMBER-2022
(REGULATIONS-2017)
CHOICE BASED CREDIT SYSTEM (CBCS)

Branch Name **B.E. Computer Science and Engineering**

<i>Semester</i>	<i>Subject Code</i>	<i>Subject Name</i>	<i>Exam Date</i>	<i>Session</i>
01	HS8151	Communicative English	29-DEC-22	A.N.
01	GE8152	Engineering Graphics	09-JAN-23	A.N.
01	GE8151	Problem Solving and Python Programming	10-JAN-23	A.N.
01	CY8151	Engineering Chemistry	11-JAN-23	A.N.
01	PH8151	Engineering Physics	12-JAN-23	A.N.
01	MA8151	Engineering Mathematics - I	13-JAN-23	A.N.
02	GE8291	Environmental Science and Engineering	02-JAN-23	A.N.
02	MA8251	Engineering Mathematics - II	06-JAN-23	A.N.
02	BE8255	Basic Electrical, Electronics and Measurement Engineering	09-JAN-23	F.N.
02	PH8252	Physics for Information Science	10-JAN-23	F.N.
02	CS8251	Programming in C	11-JAN-23	F.N.
02	HS8251	Technical English	13-JAN-23	F.N.
02	CS8392	Object Oriented Programming	12-DEC-22	F.N.
02	MA8351	Discrete Mathematics	15-DEC-22	F.N.
03	CS8391	Data Structures	21-DEC-22	A.N.
03	CS8351	Digital Principles and System Design	23-DEC-22	F.N.
03	EC8395	Communication Engineering	26-DEC-22	F.N.
04	CS8494	Software Engineering	10-DEC-22	A.N.
04	CS8493	Operating Systems	12-DEC-22	A.N.
04	CS8451	Design and Analysis of Algorithms	13-DEC-22	A.N.
04	CS8492	Database Management Systems	26-DEC-22	A.N.
04	MA8402	Probability and Queueing Theory	04-JAN-23	A.N.
04	CS8491	Computer Architecture	06-JAN-23	F.N.
05	MA8551	Algebra and Number Theory	08-DEC-22	F.N.
05	CS8591	Computer Networks	13-DEC-22	F.N.
05	CS8501	Theory of Computation	15-DEC-22	A.N.
05	CS8592	Object Oriented Analysis and Design	17-DEC-22	F.N.
05	EC8691	Microprocessors and Microcontrollers	23-DEC-22	A.N.
05	OBT552	Basics of Bioinformatics	29-DEC-22	F.N.
05	OMD551	Basic of Biomedical Instrumentation	29-DEC-22	F.N.
05	OCE551	Air Pollution and Control Engineering	29-DEC-22	F.N.
05	OIM551	World Class Manufacturing	29-DEC-22	F.N.
05	OMD553	Telehealth Technology	29-DEC-22	F.N.
05	OEC552	Soft Computing	29-DEC-22	F.N.
05	OAN551	Sensors and Transducers	29-DEC-22	F.N.
05	OMF551	Product Design and Development	29-DEC-22	F.N.
05	OBT554	Principles of Food Preservation	29-DEC-22	F.N.
05	OBM552	Medical Physics	29-DEC-22	F.N.
05	OME553	Industrial Safety Engineering	29-DEC-22	F.N.

Candidates registered for 8th semester (advance) courses in 7th semester may refer to 8th semester schedule

FN: FORENOON (10.00 A.M. TO 01.00 P.M.)
 AN:AFTERNOON (2.00 P.M. TO 5.00 P.M.)



P. Sathivel

CONTROLLER OF EXAMINATIONS



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



ANNA UNIVERSITY, CHENNAI - 600 025
TIME TABLE-B.E./B.Tech./B.Arch. DEGREE EXAMINATIONS
NOVEMBER/DECEMBER-2022
(REGULATIONS-2017)
CHOICE BASED CREDIT SYSTEM (CBCS)

Branch Name **B.E. Electrical and Electronics Engineering**

Semester	Subject Code	Subject Name	Exam Date	Session
01	HS8151	Communicative English	29-DEC-22	A.N.
01	GE8152	Engineering Graphics	09-JAN-23	A.N.
01	GE8151	Problem Solving and Python Programming	10-JAN-23	A.N.
01	CY8151	Engineering Chemistry	11-JAN-23	A.N.
01	PH8151	Engineering Physics	12-JAN-23	A.N.
01	MA8151	Engineering Mathematics - I	13-JAN-23	A.N.
02	GE8291	Environmental Science and Engineering	02-JAN-23	A.N.
02	BE8252	Basic Civil and Mechanical Engineering	04-JAN-23	A.N.
02	MA8251	Engineering Mathematics - II	06-JAN-23	A.N.
02	EE8251	Circuit Theory	09-JAN-23	F.N.
02	PH8253	Physics for Electronics Engineering	10-JAN-23	F.N.
02	HS8251	Technical English	13-JAN-23	F.N.
03	EE8351	Digital Logic Circuits	09-DEC-22	F.N.
03	MA8353	Transforms and Partial Differential Equations	15-DEC-22	F.N.
03	EE8391	Electromagnetic Theory	17-DEC-22	F.N.
03	EE8301	Electrical Machines - I	28-DEC-22	A.N.
03	ME8792	Power Plant Engineering	03-JAN-23	F.N.
03	EC8353	Electron Devices and Circuits	05-JAN-23	A.N.
04	IC8451	Control Systems	09-DEC-22	A.N.
04	EE8401	Electrical Machines - II	10-DEC-22	A.N.
04	EE8402	Transmission and Distribution	23-DEC-22	A.N.
04	EE8451	Linear Integrated Circuits and Applications	27-DEC-22	F.N.
04	EE8403	Measurements and Instrumentation	04-JAN-23	F.N.
04	MA8491	Numerical Methods	05-JAN-23	F.N.
05	EE8551	Microprocessors and Microcontrollers	08-DEC-22	A.N.
05	CS8392	Object Oriented Programming	12-DEC-22	F.N.
05	EE8591	Digital Signal Processing	14-DEC-22	A.N.
05	EE8501	Power System Analysis	26-DEC-22	A.N.
05	OCE551	Air Pollution and Control Engineering	29-DEC-22	F.N.
05	OMD551	Basic of Biomedical Instrumentation	29-DEC-22	F.N.
05	OME552	Vibration and Noise Control	29-DEC-22	F.N.
05	OAT551	Automotive Systems	29-DEC-22	F.N.
05	OIT551	Database Management Systems	29-DEC-22	F.N.
05	OIT552	Cloud Computing	29-DEC-22	F.N.
05	OMF551	Product Design and Development	29-DEC-22	F.N.
05	OAN551	Sensors and Transducers	29-DEC-22	F.N.
05	OCY551	Advanced Engineering Chemistry	29-DEC-22	F.N.
05	EE8552	Power Electronics	02-JAN-23	F.N.
06	EE8601	Solid State Drives	12-DEC-22	A.N.

Candidates registered for 8th semester (advance) courses in 7th semester may refer to 8th semester schedule

FN: FORENOON (10.00 A.M. TO 01.00 P.M.)
 AN: AFTERNOON (2.00 P.M. TO 5.00 P.M.)



P. Senthilvel
CONTROLLER OF EXAMINATIONS



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



ANNA UNIVERSITY, CHENNAI - 600 025
TIME TABLE-B.E./B.Tech./B.Arch. DEGREE EXAMINATIONS
NOVEMBER/DECEMBER-2022
(REGULATIONS-2017)
CHOICE BASED CREDIT SYSTEM (CBCS)

Branch Name **B.E. Electronics and Communication Engineering**

<i>Semester</i>	<i>Subject Code</i>	<i>Subject Name</i>	<i>Exam Date</i>	<i>Session</i>
01	HS8151	Communicative English	29-DEC-22	A.N.
01	GE8152	Engineering Graphics	09-JAN-23	A.N.
01	GE8151	Problem Solving and Python Programming	10-JAN-23	A.N.
01	CY8151	Engineering Chemistry	11-JAN-23	A.N.
01	PH8151	Engineering Physics	12-JAN-23	A.N.
01	MA8151	Engineering Mathematics - I	13-JAN-23	A.N.
02	MA8251	Engineering Mathematics - II	06-JAN-23	A.N.
02	BE8254	Basic Electrical and Instrumentation Engineering	09-JAN-23	F.N.
02	PH8253	Physics for Electronics Engineering	10-JAN-23	F.N.
02	EC8252	Electronic Devices	11-JAN-23	F.N.
02	EC8251	Circuit Analysis	12-JAN-23	F.N.
02	HS8251	Technical English	13-JAN-23	F.N.
03	EC8393	Fundamentals of Data Structures in C	08-DEC-22	A.N.
	EC8352	Signals and Systems	13-DEC-22	F.N.
03	MA8352	Linear Algebra and Partial Differential Equations	15-DEC-22	F.N.
03	EC8391	Control Systems Engineering	17-DEC-22	A.N.
03	EC8392	Digital Electronics	23-DEC-22	F.N.
03	EC8351	Electronic Circuits -I	28-DEC-22	F.N.
04	EC8451	Electromagnetic Fields	10-DEC-22	A.N.
04	EC8452	Electronic Circuits -II	19-DEC-22	A.N.
04	EC8491	Communication Theory	26-DEC-22	F.N.
04	EC8453	Linear Integrated Circuits	27-DEC-22	F.N.
04	GE8291	Environmental Science and Engineering	02-JAN-23	A.N.
04	MA8451	Probability and Random Processes	04-JAN-23	A.N.
05	EC8553	Discrete-Time Signal Processing	09-DEC-22	F.N.
05	CS8392	Object Oriented Programming	12-DEC-22	F.N.
05	CS8493	Operating Systems	12-DEC-22	A.N.
05	EC8552	Computer Architecture and Organization	16-DEC-22	A.N.
05	GE8074	Human Rights	20-DEC-22	F.N.
05	EC8551	Communication Networks	21-DEC-22	A.N.
05	GE8077	Total Quality Management	27-DEC-22	A.N.
	EC8075	Nano Technology and Applications	27-DEC-22	A.N.
05	EC8074	Robotics and Automation	27-DEC-22	A.N.
05	EC8073	Medical Electronics	27-DEC-22	A.N.
05	OMD553	Telehealth Technology	29-DEC-22	F.N.
05	OTL554	Wavelets and its Applications	29-DEC-22	F.N.
05	OIM551	World Class Manufacturing	29-DEC-22	F.N.
05	OIT551	Database Management Systems	29-DEC-22	F.N.
05	OTL552	Digital Audio Engineering	29-DEC-22	F.N.

Candidates registered for 8th semester (advance) courses in 7th semester may refer to 8th semester schedule

FN: FORENOON (10.00 A.M. TO 01.00 P.M.)
 AN: AFTERNOON (2.00 P.M. TO 5.00 P.M.)



P. Senthilvel

CONTROLLER OF EXAMINATIONS



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



ANNA UNIVERSITY, CHENNAI - 600 025
TIME TABLE-B.E./B.Tech./B.Arch. DEGREE EXAMINATIONS
NOVEMBER/DECEMBER-2022
(REGULATIONS-2017)
CHOICE BASED CREDIT SYSTEM (CBCS)

Branch Name **B.E. Mechanical Engineering**

<i>Semester</i>	<i>Subject Code</i>	<i>Subject Name</i>	<i>Exam Date</i>	<i>Session</i>
01	HS8151	Communicative English	29-DEC-22	A.N.
01	GE8152	Engineering Graphics	09-JAN-23	A.N.
01	GE8151	Problem Solving and Python Programming	10-JAN-23	A.N.
01	CY8151	Engineering Chemistry	11-JAN-23	A.N.
01	PH8151	Engineering Physics	12-JAN-23	A.N.
01	MA8151	Engineering Mathematics - I	13-JAN-23	A.N.
02	GE8291	Environmental Science and Engineering	02-JAN-23	A.N.
02	MA8251	Engineering Mathematics - II	06-JAN-23	A.N.
02	GE8292	Engineering Mechanics	07-JAN-23	F.N.
02	BE8253	Basic Electrical, Electronics and Instrumentation Engineering	09-JAN-23	F.N.
02	PH8251	Materials Science	10-JAN-23	F.N.
02	HS8251	Technical English	13-JAN-23	F.N.
03	CE8394	Fluid Mechanics and Machinery	08-DEC-22	F.N.
03	MA8353	Transforms and Partial Differential Equations	15-DEC-22	F.N.
03	ME8391	Engineering Thermodynamics	19-DEC-22	F.N.
03	ME8351	Manufacturing Technology - I	21-DEC-22	F.N.
03	EE8353	Electrical Drives and Controls	23-DEC-22	A.N.
04	ME8491	Engineering Metallurgy	09-DEC-22	A.N.
04	CE8395	Strength of Materials for Mechanical Engineers	12-DEC-22	F.N.
04	ME8493	Thermal Engineering- I	19-DEC-22	A.N.
04	ME8492	Kinematics of Machinery	26-DEC-22	A.N.
04	ME8451	Manufacturing Technology - II	27-DEC-22	F.N.
04	MA8452	Statistics and Numerical Methods	11-JAN-23	F.N.
05	ME8593	Design of Machine Elements	09-DEC-22	F.N.
05	ME8594	Dynamics of Machines	13-DEC-22	F.N.
05	ME8595	Thermal Engineering- II	15-DEC-22	A.N.
05	ME8501	Metrology and Measurements	21-DEC-22	A.N.
05	OIC551	Biomedical Instrumentation	29-DEC-22	F.N.
05	OML551	Introduction to Nanotechnology	29-DEC-22	F.N.
05	OIT552	Cloud Computing	29-DEC-22	F.N.
05	OIT551	Database Management Systems	29-DEC-22	F.N.
05	OAI551	Environment and Agriculture	29-DEC-22	F.N.
05	OPT551	Fibre Reinforced Plastics	29-DEC-22	F.N.
05	OCE552	Geographic Information System	29-DEC-22	F.N.
05	OAT552	Internal Combustion Engines	29-DEC-22	F.N.
05	OIM552	Lean Manufacturing	29-DEC-22	F.N.
05	OML552	Microscopy	29-DEC-22	F.N.
05	OMF551	Product Design and Development	29-DEC-22	F.N.
05	OAI553	Production Technology of Agricultural Machinery	29-DEC-22	F.N.

Candidates registered for 8th semester (advance) courses in 7th semester may refer to 8th semester schedule

FN: FORENOON (10.00 A.M. TO 01.00 P.M.)
 AN:AFTERNOON (2.00 P.M. TO 5.00 P.M.)



P. Senthilvel
CONTROLLER OF EXAMINATIONS



K. Mahadevan
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CMS COLLEGE OF ENGINEERING,
NAMAKKAL-637 003



ANNA UNIVERSITY, CHENNAI - 600 025
TIME TABLE-B.E./B.Tech./B.Arch. DEGREE EXAMINATIONS
NOVEMBER/DECEMBER-2022
(REGULATIONS-2017)
CHOICE BASED CREDIT SYSTEM (CBCS)

Branch Name B.E. Biomedical Engineering

Semester	Subject Code	Subject Name	Exam Date	Session
01	HS8151	Communicative English	29-DEC-22	A.N.
01	GE8152	Engineering Graphics	09-JAN-23	A.N.
01	GE8151	Problem Solving and Python Programming	10-JAN-23	A.N.
01	CY8151	Engineering Chemistry	11-JAN-23	A.N.
01	PH8151	Engineering Physics	12-JAN-23	A.N.
01	MA8151	Engineering Mathematics - I	13-JAN-23	A.N.
02	MA8251	Engineering Mathematics - II	06-JAN-23	A.N.
02	BM8251	Engineering Mechanics for Biomedical Engineers	09-JAN-23	F.N.
02	PH8253	Physics for Electronics Engineering	10-JAN-23	F.N.
02	BM8201	Fundamentals of Bio Chemistry	11-JAN-23	F.N.
02	EC8251	Circuit Analysis	12-JAN-23	F.N.
02	HS8251	Technical English	13-JAN-23	F.N.
03	BM8351	Anatomy and Human Physiology	08-DEC-22	F.N.
03	EC8352	Signals and Systems	13-DEC-22	F.N.
03	MA8352	Linear Algebra and Partial Differential Equations	15-DEC-22	F.N.
03	BM8301	Sensors and Measurements	19-DEC-22	F.N.
03	BM8302	Pathology and Microbiology	26-DEC-22	F.N.
03	EC8353	Electron Devices and Circuits	05-JAN-23	A.N.
04	EC8393	Fundamentals of Data Structures in C	08-DEC-22	A.N.
04	BM8401	Medical Physics	09-DEC-22	A.N.
04	EE8452	Basics of Electrical Engineering	10-DEC-22	A.N.
04	EC8392	Digital Electronics	23-DEC-22	F.N.
04	EC8453	Linear Integrated Circuits	27-DEC-22	F.N.
04	MA8391	Probability and Statistics	28-DEC-22	F.N.
05	EC8553	Discrete-Time Signal Processing	09-DEC-22	F.N.
05	BM8502	Biomedical Instrumentation	12-DEC-22	F.N.
05	EC8394	Analog and Digital Communication	14-DEC-22	A.N.
05	BM8501	Biocontrol Systems	16-DEC-22	F.N.
05	GE8074	Human Rights	20-DEC-22	F.N.
05	BM8072	Biomaterials	27-DEC-22	A.N.
05	EC8075	Nano Technology and Applications	27-DEC-22	A.N.
05	GE8077	Total Quality Management	27-DEC-22	A.N.
05	BM8001	Medical Optics	27-DEC-22	A.N.
05	ORO551	Renewable Energy Sources	29-DEC-22	F.N.
05	OCH551	Industrial Nanotechnology	29-DEC-22	F.N.
05	OTL552	Digital Audio Engineering	29-DEC-22	F.N.
05	OBT553	Fundamentals of Nutrition	29-DEC-22	F.N.
05	OME553	Industrial Safety Engineering	29-DEC-22	F.N.
05	OML552	Microscopy	29-DEC-22	F.N.

Candidates registered for 8th semester (advance) courses in 7th semester may refer to 8th semester schedule

FN: FORENOON (10.00 A.M. TO 01.00 P.M.)
 AN: AFTERNOON (2.00 P.M. TO 5.00 P.M.)



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TIME TABLE-B.E./B.Tech./B.Arch. DEGREE EXAMINATIONS
NOVEMBER/DECEMBER-2022
(REGULATIONS-2017)
CHOICE BASED CREDIT SYSTEM (CBCS)

Branch Name B.Tech. Artificial Intelligence and Data Science

Semester	Subject Code	Subject Name	Exam Date	Session
01	HS8151	Communicative English	29-DEC-22	A.N.
01	GE8152	Engineering Graphics	09-JAN-23	A.N.
01	GE8151	Problem Solving and Python Programming	10-JAN-23	A.N.
01	CY8151	Engineering Chemistry	11-JAN-23	A.N.
01	PH8151	Engineering Physics	12-JAN-23	A.N.
01	MA8151	Engineering Mathematics - I	13-JAN-23	A.N.
02	GE8291	Environmental Science and Engineering	02-JAN-23	A.N.
02	MA8252	Linear Algebra	06-JAN-23	A.N.
02	BE8255	Basic Electrical, Electronics and Measurement Engineering	09-JAN-23	F.N.
02	AD8251	Data Structures Design	11-JAN-23	F.N.
02	AD8252	Digital Principles and Computer Organization	12-JAN-23	F.N.
02	HS8251	Technical English	13-JAN-23	F.N.
03	AD8351	Design and Analysis of Algorithms	08-DEC-22	F.N.
03	CS8392	Object Oriented Programming	12-DEC-22	F.N.
03	MA8351	Discrete Mathematics	15-DEC-22	F.N.
03	AD8301	Introduction to Operating Systems	21-DEC-22	F.N.
03	AD8302	Fundamentals of Data Science	26-DEC-22	F.N.
04	AD8401	Database Design and Management	10-DEC-22	F.N.
04	AD8402	Artificial Intelligence I	14-DEC-22	F.N.
04	AD8403	Data Analytics	16-DEC-22	F.N.
04	AD8003	Mobile Applications Development	20-DEC-22	F.N.
04	AD8001	Software Development Processes	20-DEC-22	F.N.
04	AD8002	Health care Analytics	20-DEC-22	F.N.
04	AD8004	Parallel Computing	20-DEC-22	F.N.
04	EC8691	Microprocessors and Microcontrollers	23-DEC-22	A.N.
04	MA8391	Probability and Statistics	28-DEC-22	F.N.
05	AD8501	Optimization Techniques	09-DEC-22	F.N.
05	AD8502	Data Exploration and Visualization	13-DEC-22	F.N.
05	AD8551	Business Analytics	17-DEC-22	F.N.
05	AD8552	Machine Learning	19-DEC-22	F.N.
05	CW8691	Computer Networks	27-DEC-22	F.N.
05	OMD553	Telehealth Technology	29-DEC-22	F.N.
05	OAN551	Sensors and Transducers	29-DEC-22	F.N.
05	OMF551	Product Design and Development	29-DEC-22	F.N.
05	OCH551	Industrial Nanotechnology	29-DEC-22	F.N.
05	OMD552	Hospital Waste Management	29-DEC-22	F.N.
05	OCE552	Geographic Information System	29-DEC-22	F.N.
05	OBT553	Fundamentals of Nutrition	29-DEC-22	F.N.
05	OTL552	Digital Audio Engineering	29-DEC-22	F.N.

Candidates registered for 8th semester (advance) courses in 7th semester may refer to 8th semester schedule

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Proforma -1
ANNA UNIVERSITY, CHENNAI
Theory Examinations NOV/DEC- 22
SEATING ARRANGEMENT

HALL NO - 05

Center: 6205 - CMS COLLEGE OF ENGINEERING

Date:08.12.22 AN

BE-EEE(20530)=22 TOTAL=22

column 1		column 2		column3		column 4	
EEE		EEE		EEE		EEE	
1	620520105301						
2	620520105302	13	620520105317	14	620520105319	25	
3	620520105303	12	620520105316	15	620520105322	24	
4	620520105305	11	620520105314	16	620520105326	23	
5	620520105306	10	620520105312	17	620520105327	22	620520105334
6	620520105307	9	620520105311	18	620520105328	21	620520105333
7	620520105309	8	620520105310	19	620520105329	20	620520105332

Proforma -1
ANNA UNIVERSITY, CHENNAI
Theory Examinations NOV/DEC- 22
SEATING ARRANGEMENT

HALL NO - 05

Center: 6205 - CMS COLLEGE OF ENGINEERING

Date:08.12.22 AN

BE-EEE(20530)=22 TOTAL=22

column 1		column 2		column3		column 4	
EEE		EEE		EEE		EEE	
1	620520105301						
2	620520105302	13	620520105317	14	620520105319	25	
3	620520105303	12	620520105316	15	620520105322	24	
4	620520105305	11	620520105314	16	620520105326	23	
5	620520105306	10	620520105312	17	620520105327	22	620520105334
6	620520105307	9	620520105311	18	620520105328	21	620520105333
7	620520105309	8	620520105310	19	620520105329	20	620520105332

Absentees reg number:

Name & Signature of
the Invigilation

Signature of
Chief Superintendent
With College seal



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PRINCIPAL
GMS COLLEGE OF ENGINEERING,
NAMAKKAL-3

FN

13 APR 2023

Reg. No. :

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Question Paper Code : 30509

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2022.

First Semester

GE 3151 – PROBLEM SOLVING AND PYTHON PROGRAMMING

(Common to: All Branches)

(Regulations 2021)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Write an algorithm to find the sum of first 'N' natural numbers.
2. Distinguish between top down and bottom up approaches to design an algorithm.
3. What is slicing operator in python? Give an example.
4. Python variables do not have specific types. Justify this statement using an example.
5. Write a python program to add two matrices.
6. Write a simple function to multiply two numbers in python.
7. Write a program to create a clone of the list: list 1 = [1,2,3,4,5,6].
8. How are the values of tuples accessed? Illustrate with an example.
9. Define relative path and absolute path with respect to files.
10. What are exceptions?



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PART B — (5 × 16 = 80 marks)

11. (a) (i) Explain the different building blocks of algorithms with their notations. (10)
- (ii) Write an algorithm to find an element in the given set of numbers. (6)

Or

- (b) (i) What is meant by recursion? Write a recursive algorithm to solve Towers of Hanoi problem. (8)
- (ii) Draw a flowchart to check if the given word is palindrome. (8)
12. (a) (i) Write a program to find the roots of a quadratic equation given the coefficients a, b, c. (8)
- (ii) Describe the shift and logical operators used in python with examples. (8)

Or

- (b) (i) Elaborate on membership, identity and bitwise operators of python with suitable examples. (12)
- (ii) Write a program to print the digit at one's place of a number. (4)
13. (a) (i) Describe the conditional branching statements of python with examples. (8)
- (ii) Write the syntax of while loop and use the same to classify if a given number is prime or not. (8)

Or

- (b) (i) Describe parameter passing in functions using examples. (8)
- (ii) Discuss about the scope and lifetime of variables considering functions. (8)
14. (a) (i) Describe the addition and deletion operation in a list data structure with examples. (8)
- (ii) Write a program that has a nested list to store topper details and display the details. (8)

Or

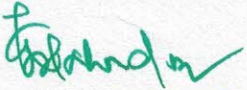


- (b) (i) Discuss the basic tuple operations with examples. (8)
- (ii) Write a program to swap two values using tuple assignment. (8)
15. (a) (i) Explain opening and closing of files in python using examples. (8)
- (ii) Write a program to display the contents of a file by performing split operation whenever a comma is encountered in a file. (8)

Or

- (b) (i) Explain the use of packages and modules in python with examples. (8)
- (ii) Write a program to handle the division by zero exception. (8)



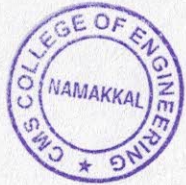

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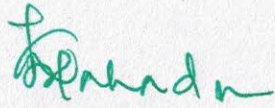
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Provisional Results of Nov. / Dec. Examination,2022.

Inst.Code/Name : 6205 - CMS COLLEGE OF ENGINEERING Semester No. : 01 DATE OF PUBLICATION :DD-MM-YYYY

Branch : 104-B.E. Computer Science and Engineering

Reg. Number	Subject Code -> Stud. Name	CY3151 Grade	CY8151 Grade	GE3151 Grade	GE8151 Grade	HS3151 Grade	HS8151 Grade	MA3151 Grade	MA8151 Grade	PH3151 Grade
620520104003	SURYA PRAKASH T		UA		UA		UA		UA	
620521104006	DEEPIKA S					UA				
620521104009	JAYASURYA S					B+				
620521104012	KEERTHANA M	U				U		U		UA
620521104013	KUMARESAN R	U				B		UA		UA
620521104021	PRADHAP K K	UA		UA		UA		UA		UA
620521104022	PRAKASH S					B+				
620521104025	SABARI B					B+				
620521104025	SANJAI A					B		U		U
620521104027	SANJAY P			UA				UA		U
620521104028	SUJILKUMAR M									U




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W - Withdrawal I - Inadequate Attendance

WH1 - Withheld for Suspected Malpractice WH(others) - Withheld for want of Clarification,approval,etc.

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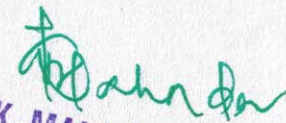
Semester No. : 02

DATE OF PUBLICATION :DD-MM-YYYY

Branch : 104-B.E. Computer Science and Engineering

Reg. Number	Stud. Name	BE3251 Grade	CS3251 Grade	GE3251 Grade	HS3251 Grade	MA3251 Grade	PH3256 Grade
620521104006	DEEPIKA S	UA		UA		UA	UA
620521104009	JAYASURYA S		B+				
620521104011	KAVIYA S		A				
620521104012	KEERTHANA M		B+		U	U	U
620521104013	KUMARESAN R	U	U		U	U	U
620521104016	NANDHAKUMAR K		B+		U		
620521104017	NAVEENKUMAR P		B+			U	
620521104019	NIKITHA M		U			U	U
620521104020	NIVETHA R					U	
620521104021	PRADHAP K K	UA	UA	UA	UA	UA	UA
620521104022	PRAKASH S	B+					
620521104025	SABARI B		B+			B+	U
620521104025	SANJAI A	B+	U			B+	
620521104027	SANJAY P	U	U			U	UA
620521104028	SUJILKUMAR M	U	U			U	U



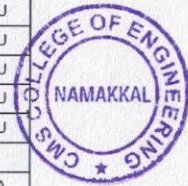

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Inst.Code/Name : 6205 - CMS COLLEGE OF ENGINEERING Semester No. : 03 DATE OF PUBLICATION :DD-MM-YYYY

Branch : 104-B.E. Computer Science and Engineering

Reg. Number	Subject Code ->	CS33	CS33	CS33	CS33	CS33	CS33	CS33	CS33	CS83	CS83	CS83	EC83	GE33	MA33
		01	11	51	52	61	81	91	81	82	83	91	95	61	54
	Stud. Name	Grad	Grad	Grad	Grad	Grad	Grad	Grad	Grad	Grad	Grad	Grad	Grad	Grad	Grad
620520104003	SURYA PRAKASH T												UA		
620520104305	ASHOK V												UA	UA	
620520104308	ELAVARASI P												UA		
620520104310	JAYAPRIYA S								UA	UA	UA				
620520104311	JAYARAJ R								UA		UA				
620520104314	MEENATCHI K								UA						
620521104001	ASHARAF ALI A	B+	A+	A	B+	A+	A+	B+						A	U
620521104006	DEEPIKA S	UA	UA	UA	UA	UA	UA	UA						A	UA
620521104008	GUNASEKARAN P	B+	A+	A	B+	O	O	B+						A+	U
620521104009	JAYASURYA S	A	A+	A	B+	A+	A+	B+						A+	U
620521104011	KAVIYA S	A	A+	A	B+	O	A+	B+						A+	U
620521104012	KEERTHANA M	A	A+	A	B	A+	A+	B+						A+	U
620521104013	KUMARESAN R	B+	A+	B+	U	A+	A+	U						A	U
620521104016	NANDHAKUMAR K	A	A+	A	B	A+	A+	U						A+	U
620521104017	NAVEENKUMAR P	U	A+	A	B+	A+	A+	B+						A+	U
620521104019	NIKITHA M	U	A+	B+	B+	A+	A+	U						A+	U
620521104020	NIVETHA R	A	A+	A	B+	A+	A+	B+						A+	U
620521104021	PRADHAP K K	UA	UA	UA	UA	UA	UA	UA						A	UA
620521104022	PRAKASH S	B+	A+	B+	B	A+	A+	A						A+	U
620521104025	SABARI B	U	A+	B+	B	A+	A+	U						A+	U
620521104026	SANJAI A	B+	A+	B+	B+	A+	A+	B						A+	U
620521104027	SANJAY P	U	A+	B+	U	A+	A+	U						A	U
620521104028	SUJILKUMAR M	B+	A+	A	B+	A+	A+	B+						A+	U
620521104301	ANANTH S	U	A+	B+	U	A+	A+	U						A+	U
620521104302	ARULMURUGAN S	A	A+	A	B+	A+	A+	B+						A+	U
620521104303	BOOBALAN S														
620521104304	DINESH M	A	A+	A	A	A+	A+	B+						O	A
620521104306	KALAISELVAN R	U	A+	U	U	A+	A+	U						A	U
620521104308	MEERA C	U	A+	B+	B	A+	A+	U						A+	U
620521104310	SINEGA S	U	UA	UA	B	UA	UA	U						A	U
620521104311	SRIMATHI K														
620521104312	THIRUMANI M														
620521104313	VENGATESAN S	U	A+	B+	U	A+	A+	B+						A+	U



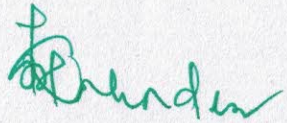
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NAMAKKAL - 637 003.

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620521104314	VINOTH KUMAR R	UA	UA	UA	UA	UA	UA	UA						A	UA
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Inst.Code/Name : 6205 - CMS COLLEGE OF ENGINEERING

Semester No. : 04

DATE OF PUBLICATION :DD-MM-YYYY

Branch : 104-B.E. Computer Science and Engineering

Reg. Number	Subject Code ->	CS8451	CS8461	CS8481	CS8491	CS8492	CS8493	CS8494	HS8461	MA8402
Reg. Number	Stud. Name	Grade	Grade	Grade	Grade	Grade	Grade	Grade	Grade	Grade
620520104003	SURYA PRAKASH T	UA			UA	UA	UA			UA
620520104305	ASHOK V	UA			UA	UA	UA	UA		UA
620520104306	BASKAR K				A	B	U			U
620520104308	ELAVARASI P	UA			UA	UA	UA			UA
620520104310	JAYAPRIYA S	UA	UA	UA	UA	UA	UA	UA	UA	UA
620520104311	JAYARAJ R	UA	UA	UA	UA	UA	UA	UA	UA	UA
620520104312	KAVIN KUMAR S	UA			UA	UA	UA	UA		UA
620520104314	MEENATCHI K	UA	UA	UA	UA	UA	UA	UA	UA	UA
620520104315	MERCY P	B+			A					U
620520104315	MONISHA N	U			B	U	U	UA		U
620520104321	SARANYA V				B+	B+				U
620520104323	SARUMATHI J					B+				UA
620520104325	STALIN K	UA			UA	UA	U			UA
620520104327	SUVISTHA K	B+	A+	A+	A	B	U	UA	B+	U




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

W - Withdrawal I - Inadequate Attendance

WH1 - Withheld for Suspected Malpractice WH(others) - Withheld for want of Clarification,approval,etc.

14-03-2023

Anna University - COE

ANNA UNIVERSITY :: CHENNAI - 600025.
OFFICE OF THE CONTROLLER OF EXAMINATIONS
Provisional Results of Nov. / Dec. Examination,2022.

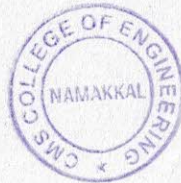
Inst.Code/Name : 6205 - CMS COLLEGE OF ENGINEERING

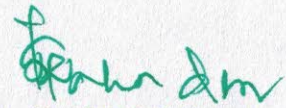
Semester No. : 05

DATE OF PUBLICATION :DD-MM-YYYY

Branch : 104-B.E. Computer Science and Engineering

Reg. Number	Subject Code ->	CS85	CS85	CS85	CS85	CS85	EC86	EC86	MA85	OCE5	SB80	SB80	SB80	SB80	SB80
		01	81	82	91	92	81	91	51	07	13	14	16	17	
	Stud. Name	Grad	Grad	Grad	Grad	Grad	Grad	Grad	Grad	Grad	Grad	Grad	Grad	Grad	Grad
		e	e	e	e	e	e	e	e	e	e	e	e	e	e
620520104003	SURYA PRAKASH T	UA	UA	UA	UA	UA	UA	UA	UA	UA	O				
620520104305	ASHOK V	UA	UA	UA	UA	UA	UA	UA	UA	UA			A+		
620520104305	BASKAR K	B+	A+	A+	B	U	A	U	U	U			A+		
620520104308	ELAVARASI P	UA	UA	UA	UA	UA	UA	UA	UA	UA			A		
620520104310	JAYAPRIYA S	UA	UA	UA	UA	UA	UA	UA	UA	UA			A+		
620520104311	JAYARAJ R	UA	UA	UA	UA	UA	UA	UA	UA	UA			A+		
620520104312	KAVIN KUMAR S	UA	UA	UA	UA	UA	UA	UA	UA	UA				B+	
620520104314	MEENATCHI K	UA	UA	UA	UA	UA	UA	UA	UA	UA				B+	
620520104315	MERCY P	A+	A+	A+	B	U	A+	U	U	U				B+	
620520104316	MONISHA N	B	A+	B+	U	U	B+	U	U	U				A	
620520104321	SARANYA V	B+	A+	A+	U	U	A	U	U	U		A			
620520104323	SARUMATHI J	B	A+	A+	U	U	O	B	U	U					A+
620520104325	STALIN K	B	UA	UA	U	B+	UA	UA	UA	UA					A+
620520104327	SUVISTHA K	A	A+	A+	U	B+	A	B	B	U					A+




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NAMAKKAL - 637 003.

Inst.Code/Name : 6205 - CMS COLLEGE OF ENGINEERING

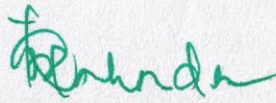
Semester No. : 08

DATE OF PUBLICATION :DD-MM-YYYY

Branch : 104-B.E. Computer Science and Engineering

Reg. Number	Stud. Name	Grade	Grade
620518104011	SURYA M		B
620518104012	VIGNESH M	UA	B+




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



INSTRUCTION TO CANDIDATES

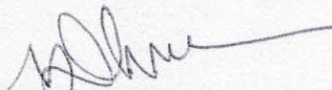
1. Fee for Revaluation is Rs.400/- per answer script and should be paid at the College only.
2. Application for Revaluation must be submitted to the Principal of the concerned College on or before 25-04-2023
3. The candidate is advised to register for the subject, in which Revaluation is sought for within the stipulated time for the next examination without waiting for the results of Revaluation.
4. There is no provision for Revaluation of Practical/Project examination Papers.
5. Incomplete/defective application will be rejected and the fee will neither be refunded nor adjusted towards any fee due to the University.
6. No application will be accepted beyond the due date prescribed.
7. The Head of the Department should ensure while recommending the application that the subject code and the subject(s) filled in the respective columns by the candidate are verified and found to be correct.

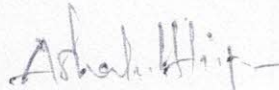
1. Name	ASHARAF ALI A
2. Register Number	620521104001
3. College Code / Name	6205 - CMS COLLEGE OF ENGINEERING
4. Degree & Branch	B.E. Computer Science and Engineering
5. Month & Year of Examination	NOV 2022
6. No. of Subjects applied for Revaluation	1
7. Amount of fee paid to the College	Rs. 400

8. Subjects for which revaluation of valued answers scripts required:

Semester No.	Subject Code	Subject Title (Staff Code)	Grade	Result
03	MA3354	Discrete Mathematics (6205250)	U	RA

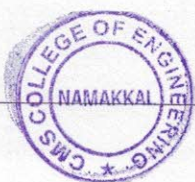
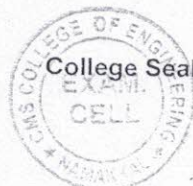
9. Recommendations of the HOD


Signature of the HOD


Signature of the Candidate

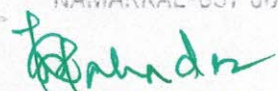
Station : CMSCE

Date : 28/4/23



Signature of the Principal

PRINCIPAL
CMS COLLEGE OF ENGINEERING,
NAMAKKAL-637 003.


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



INSTRUCTION TO CANDIDATES

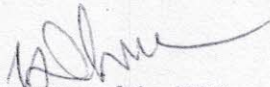
1. Fee for Revaluation is Rs.400/- per answer script and should be paid at the College only.
2. Application for Revaluation must be submitted to the Principal of the concerned College on or before 25-04-2023
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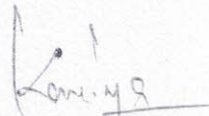
1. Name	KAVIYA S
2. Register Number	620521104011
3. College Code / Name	6205 - CMS COLLEGE OF ENGINEERING
4. Degree & Branch	B.E. Computer Science and Engineering
5. Month & Year of Examination	NOV 2022
6. No. of Subjects applied for Revaluation	1
7. Amount of fee paid to the College	Rs. 400

8. Subjects for which revaluation of valued answers scripts required:

Semester No.	Subject Code	Subject Title (Staff Code)	Grade	Result
03	MA3354	Discrete Mathematics (6205250)	U	RA

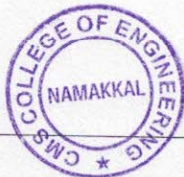
9. Recommendations of the HOD



Signature of the HOD

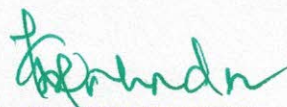

Signature of the Candidate

Station : CMSCE

Date : 28/4/23




Signature of the Principal
PRINCIPAL
CMS COLLEGE OF ENGINEERING,
NAMAKKAL-637 003.


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



INSTRUCTION TO CANDIDATES

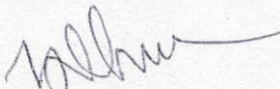
1. Fee for Revaluation is Rs.400/- per answer script and should be paid at the College only.
2. Application for Revaluation must be submitted to the Principal of the concerned College on or before 25-04-2023
3. The candidate is advised to register for the subject, in which Revaluation is sought for within the stipulated time for the next examination without waiting for the results of Revaluation.
4. There is no provision for Revaluation of Practical/Project examination Papers.
5. Incomplete/defective application will be rejected and the fee will neither be refunded nor adjusted towards any fee due to the University.
6. No application will be accepted beyond the due date prescribed.
7. The Head of the Department should ensure while recommending the application that the subject code and the subject(s) filled in the respective columns by the candidate are verified and found to be correct.

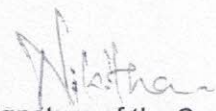
1. Name	NIKITHA M
2. Register Number	620521104019
3. College Code / Name	6205 - CMS COLLEGE OF ENGINEERING
4. Degree & Branch	B.E. Computer Science and Engineering
5. Month & Year of Examination	NOV 2022
6. No. of Subjects applied for Revaluation	2
7. Amount of fee paid to the College	Rs. 800

8. Subjects for which revaluation of valued answers scripts required:

Semester No.	Subject Code	Subject Title (Staff Code)	Grade	Result
02	CS3251	Programming in C (6205173)	U	RA
03	CS3301	Data Structures (6205217)	U	RA

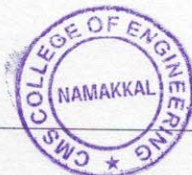
9. Recommendations of the HOD



Signature of the HOD

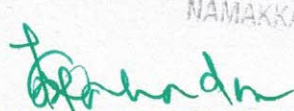

Signature of the Candidate

Station : CMSCE

Date : 28/4/23




Signature of the Principal
PRINCIPAL
CMS COLLEGE OF ENGINEERING,
NAMAKKAL-637 003.


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



ANNA UNIVERSITY :: CHENNAI - 600 025
OFFICE OF THE CONTROLLER OF EXAMINATIONS

Abstract of Photocopies required & Fees Collected
NOV. / DEC. EXAMINATION, 2022- EXAMINATIONS

PC

Inst Code & Name : 6205 - CMS COLLEGE OF ENGINEERING

Branch Code / Name : 104 : B.E. Computer Science and Engineering University : AUC

Register No.	Name of the Student	No. of Subjects	Fees in Rs.
620522104001	AROCKIABALA A	2	600.00
620522104002	ARUNPANDIAN E	2	600.00
620522104004	BALAJI B	2	600.00
620522104010	DEVAVARSHINI D	1	300.00
620522104012	DHANUSH H	1	300.00
620522104015	DHIVAKAR D	1	300.00
620522104016	GUNA P	2	600.00
620522104019	JESTIN J	1	300.00
620522104020	KANAGAVEL K	1	300.00
620522104021	KATHIRVEL N	2	600.00
620522104022	KISHORE KANNAN M	1	300.00
620522104026	MANIKANDAN M	2	600.00
620522104027	MANIKANDAN R	1	300.00
620522104028	MANIKANDAN S	1	300.00
620522104029	MUKILAN K	1	300.00
620522104030	NANDHINI K	1	300.00
620522104031	NANDHINI S	1	300.00
620522104033	NAVEENKUMAR P	2	600.00
620522104034	NISHANTH M	1	300.00
620522104039	RAGUL M	1	300.00
620522104040	RAGUL V	1	300.00
620522104043	SABARIKARTHICK M	1	300.00
620522104044	SABARIVASAN I	1	300.00
620522104051	SUGUMAR M	1	300.00
620522104054	THIYAGARAJAN S	1	300.00
620522104055	VASIKARAN S	1	300.00
620522104056	VIGNESHWARAN S	1	300.00
620522104057	VIJAY M	1	300.00
620522104060	YUVARAJ S	1	300.00

No. of Students :29

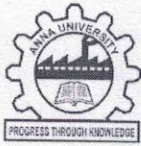
No. of Subjects :36

Total : 10800.00

Branch Code / Name : 105 - B.E. Electrical and Electronics Engineering

University : AUC





ANNA UNIVERSITY :: CHENNAI - 600 025
OFFICE OF THE CONTROLLER OF EXAMINATIONS

Abstract of Photocopies required & Fees Collected
NOV. / DEC. EXAMINATION, 2022- EXAMINATIONS

PC

Inst Code & Name : 6205 - CMS COLLEGE OF ENGINEERING

Register No.	Name of the Student	No. of Subjects	Fees in Rs.
620522105003	DHANUSH E	1	300.00
620522105004	DINESH B	1	300.00
620522105009	KOWSIHKPRABHU R	2	600.00
620522105016	SRIKANTH M	1	300.00
No. of Students :4		No. of Subjects :5	Total : 1500.00

Branch Code / Name : 106 : B.E. Electronics and Communication Engineering University : AUC

Register No.	Name of the Student	No. of Subjects	Fees in Rs.
620522106014	MANIVEL V	1	300.00
620522106016	NITHYA V	1	300.00
620522106022	SATHISH M	1	300.00
620522106026	SWETHA S	1	300.00
No. of Students :4		No. of Subjects :4	Total : 1200.00

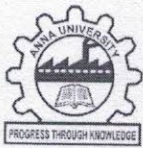
Branch Code / Name : 114 : B.E. Mechanical Engineering University : AUC

Register No.	Name of the Student	No. of Subjects	Fees in Rs.
620522114009	POVAS S	1	300.00
620522114010	PRASANNA J	1	300.00
620522114012	SANJAY A	2	600.00
620522114013	SHANKAR A	1	300.00
620522114014	SUGANTHAN S	1	300.00
620522114015	VASANTH S	2	600.00
No. of Students :6		No. of Subjects :8	Total : 2400.00

Branch Code / Name : 121 : B.E. Bio Medical Engineering University : AUC

Register No.	Name of the Student	No. of Subjects	Fees in Rs.
620522121003	ANISHRAJ P	1	300.00
620522121004	ASFIYA A	1	300.00
620522121005	BHAGAVATHI S	1	300.00
620522121006	BHUVANESWARI B	2	600.00
620522121008	DHIVYA C	2	600.00





ANNA UNIVERSITY :: CHENNAI - 600 025
OFFICE OF THE CONTROLLER OF EXAMINATIONS

Abstract of Photocopies required & Fees Collected
NOV. / DEC. EXAMINATION, 2022- EXAMINATIONS

PC

Inst Code & Name : 6205 - CMS COLLEGE OF ENGINEERING

620522121009	DHIVYA BHARATHI S	1	300.00
620522121011	DUVARAGA P	1	300.00
620522121016	JANANI K	1	300.00
620522121021	KAVIYA K	3	900.00
620522121022	KAVIYAPRIYA R	1	300.00
620522121024	MANJU P	1	300.00
620522121027	MUGESWARI M	2	600.00
620522121030	PRAVEENA R	1	300.00
620522121032	RADHIKA R	1	300.00
620522121033	RAGAVI G	1	300.00
620522121038	SHELAT I	1	300.00
620522121039	SHELIN S	3	900.00
620522121040	SIVASANGARI M	2	600.00
620522121041	SOBIGA K	2	600.00
620522121042	SURYA S	1	300.00
620522121043	SUTHAN S	1	300.00
620522121045	THARNISHRAJA R	2	600.00
620522121046	THARUN K	1	300.00
620522121049	VIJAYALAKSHMI M	1	300.00
620522121050	VINITHA S	2	600.00
620522121051	VISHWABALAN S	2	600.00
620522121052	YASHODHA R	2	600.00

No. of Students :27

No. of Subjects :40

Total : 12000.00

Branch Code / Name : 243 : B.Tech. Artificial Intelligence and Data Science University : AUC

Register No.	Name of the Student	No. of Subjects	Fees in Rs.
620522243001	ABINESH M	1	300.00
620522243002	ABISHEK D	2	600.00
620522243003	ABRNARANI S	2	600.00
620522243004	AKASH M	2	600.00
620522243006	ARUL PRASATH D	1	300.00
620522243014	GOKULRAJA D	1	300.00
620522243015	GOWTHAMAN P	2	600.00
620522243020	JEEVAN J	2	600.00





ANNA UNIVERSITY :: CHENNAI - 600 025
OFFICE OF THE CONTROLLER OF EXAMINATIONS

Abstract of Photocopies required & Fees Collected
NOV. / DEC. EXAMINATION, 2022- EXAMINATIONS

PC

Inst Code & Name : 6205 - CMS COLLEGE OF ENGINEERING

620522243026	KEERTHANA R	1	300.00
620522243029	MATHANBABU B	2	600.00
620522243031	MUKKESH B	1	300.00
620522243032	MUMTHAJBEGAM E	2	600.00
620522243034	NAVEEN A	2	600.00
620522243036	PANDEESWARI G	2	600.00
620522243037	POOVINRAJ M	1	300.00
620522243038	PRADEEP R	2	600.00
620522243044	SAHAYASEETHAL D	1	300.00
620522243045	SANTHIYA S	1	300.00
620522243046	SARAVANAVEL V	1	300.00
620522243047	SELVA V	1	300.00
620522243052	SUJITHKUMAR M	2	600.00
620522243053	TAMILMARAN S	1	300.00
620522243057	VINNARASU A	1	300.00
620522243058	YOGESH D	2	600.00
No. of Students :24		No. of Subjects :36	Total : 10800.00

Total No. of Students: 94

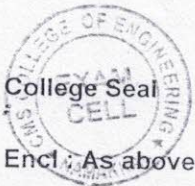
Total No. of Subjects : 129

Grand Total : 38700.00

The Followings are Enclosed.

i. Obtaining Photocopies of answer book applications received from the students: 94

ii. DD No. INDIA 23200419839 dated 19-7-2023 drawn on (Bank)
Indian Bank for Rs.38700.



Encl : As above.

To


The Controller of Examinations
Anna University , Chennai - 600 025.

Signature of Principal

PRINCIPAL

Name: CMS COLLEGE OF ENGINEERING,
NAMAKKAL-637 003.

Date :


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

