



SASURIE COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai

Near NH544, Coimbatore Bypass, Near Vijayamangalam Tollgate, Tirupur 638056

NAAC DOCUMENTS

QUALITY INDICATOR FRAME WORK

CRITERION - 3

RESEARCH, INNOVATION & EXTENSIONS

SUBMITTED BY

IQAC

INTERNAL QUALITY ASSURANCE CELL

SASURIE COLLEGE OF ENGINEERING





DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Ref: SCE / ECE /Students / RM / 2021 - 2022 / EVEN

09.05.2022

CIRCULAR

In order to address the recent research issues in the field of multi-disciplinary Engineering areas and to overcome such research issues, Department of Electronics and Communication Engineering in association with IQAC of our Institution, is planning to conduct one day seminar for the students of II, III and IV year of Civil, ECE, EEE & Mech on the title "MEMS and NEMS Research Techniques" on 13.05.2022. At the end of the programme, participation certificates will be issued to the participants.

Resource Person	Mr.Bose Vasantha,	DM.Kishorkumar,
Resource I cison	Trainer,	Manager,
Details	Sunrise Electronics,	Sunrise Electronics,
-	Coimbatore-641001.	Coimbatore-641001.
Venue	Seminar Hall-ECE	

HoD/ECE

PRINCIPAL

Copy to:

- 1. Chairman & Secretary for information
- 2. Principal office
- 3. IQAC Co-Ordinator
- 4. Class In charges II, III & IV-Year Civil, ECE, EEE & Mech
- 5. II, III & IV-Year Civil, ECE, EEE & Mech Students
- 6. Civil, ECE, EEE & Mech Notice Board
- 7. Department File





SASURIE COLLEGE OF ENGINEERING

Vijayamangalam, Tiruppur

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai - 600025)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

in association with IQAC

Cordially invites

One day Research Methodology Programme (RM)

On

"MEMS and NEMS Research Techniques"

Date: 13.05.2022

Venue: Seminar Hall ECE

Resource Persons

Ms. Bose Vasantha,

Trainer,

Sunrise Electronics.

Coimbatore-641001.

Mr.D.M.Kishorkumar,

Manager,

Sunrise Electronics,

Coimbatore-641001.

in the esteemed presence of

Dr.E.Nandhakumar Principal

Shri A.M.Kandaswami Chairman

Ms. K. Savitha Moganraj Secretary

Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Students Participation List - Research Methodology Programme

"MEMS and NEMS Research Techniques"

On 13.05.2022

Academic Year: 2021 -2022 / EVEN

S.No.	Reg No.	Name of the Student	Year / Branch
1.	732419106001	FEMEY S	III/ECE
2.	732419106003	MOWNEESH N	III/ECE
3.	732419106004	SARANYA DEVI V	III/ECE
4.	732419106005	UMESH KUMAR S	III/ECE
5.	732419106006	YOGESH S	III/ECE
6.	732419106301	KAVIYA PRIYA G	III/ECE
7.	732419106302	VIVEK S M	III/ECE
8.	732418106004	SABITHA A	IV/ECE
9.	732418106005	SUJITHRA P	IV/ECE
10.	732419105001	AJITH KUMAR S	III/EEE
11.	732419105002	DINESH M	III/EEE
12.	732419105004	NAVEENKUMAR A	III/EEE
13.	732419105005	PRAVEEN KUMAR M	III/EEE
14.	732419103001	PRAKASH V	III/CIVIL
15.	732419103002	VIPIN H	III/CIVIL
16.	732420114301	HARI GANESH B	II/MECH
17.	732420114302	PREMKUMAR Y	II/MECH
18.	732420114301	HARI GANESH B	II/MECH
19.	732420114302	PREMKUMAR Y	II/MECH
20.	732419114001	AMULRAJ P	III/MECH
21.	732419114002	ARUNKUMAR B	III/MECH
22.	732419114003	KAVIKRISHNAN P	III/MECH
23.	732419114004	KISHORE B	III/MECH
24.	732419114006	PAVENDHAR S	III/MECH
25.	732419114007	PRIYADHARSHAN G	III/MECH
26.	732419114008	SELVENTHIRAN S	III/MECH
27.	732419114010	THIRUNAVUKKARASUS	III/MECH

Event Coordinator

HODECE

Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Students Attendance List - Research Methodology Programme

"MEMS and NEMS Research Techniques"

On 13.05.2022

Academic Year: 2021 -2022 / EVEN

S.No. Reg No.		Name of the Student	Year /	13.05	.2022	Signatura
S.1NO.	Reg No.	Name of the Student	Branch	FN	AN	Signature
1.	732419106001	FEMEY S	III/ECE	1	1	J. Juny
2.	732419106003	MOWNEESH N	III/ECE	/	1	N. Youh
3.	732419106004	SARANYA DEVI V	III/ECE	/	1	v. Luyer.
4.	732419106005	UMESH KUMAR S	III/ECE	1	/	p. and
5.	732419106006	YOGESH S	III/ECE	1	/	S. Baile
6.	732419106301	KAVIYA PRIYA G	III/ECE	1	1	Kin Prya
7.	732419106302	VIVEK S M	III/ECE	7	1	g. H. White
8.	732418106004	SABITHA A	IV/ECE	/	/	Subsitu
9.	732418106005	SUJITHRA P	IV/ECE	1	/	e Sujta
10.	732419105001	AJITH KUMAR S	III/EEE	/	1	Aichki
11.	732419105002	DINESH M	III/EEE		/	n. 10m.
12.	732419105004	NAVEENKUMAR A	III/EEE		/	A. Duk.
13.	732419105005	PRAVEEN KUMAR M	III/EEE	/	/	Mohunker
14.	732419103001	PRAKASH V	III/CIVIL	/	/	1. Rikih
15.	732419103002	VIPIN H	III/CIVIL	1	7 /	Biloin
16.	732420114301	HARI GANESH B	II/MECH	1	1	P dame
17.	732420114302	PREMKUMAR Y	II/MECH	1	1	y Dunker
18.	732420114301	HARI GANESH B	II/MECH	1	/	Ralii
19.	732420114302	PREMKUMAR Y	II/MECH	1	1	y. Q. K.
20.	732419114001	AMULRAJ P	III/MECH	1	1	P Bul
21.	732419114002	ARUNKUMAR B	III/MECH	1	1	P. Ander
22.	732419114003	KAVIKRISHNAN P	III/MECH	1	1	D. Kenika
23.	732419114004	KISHORE B	III/MECH	,	1	Rith
24.	732419114006	PAVENDHAR S	III/MECH	1	1	8 My
25.	732419114007	PRIYADHARSHAN G	III/MECH	1	1	(2) fully
26.	732419114008	SELVENTHIRAN S	III/MECH	1	1	C. Setuni
27.	732419114010	THIRUNAVUKKARASU S	III/MECH	1	/	the kin.

Event Coordinator

Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF CHOMESTA

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SASURIE GOLLEGE OF ENGINEERING, Vijayamangalam - 638 056, Tirupur (Dt).



DEPARTMENT OF ELECTRONICS AND COMMUNICATION **ENGINEERING**

<u>Students Attendance List - Research Methodology Programme</u>

"MEMS and NEMS Research Techniques"

On 13.05.2022

Academic Year: 2021-2022/EVEN

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2.	732419106003	MOWNEESH N	III/ECE	N. Howh
3.	732419106004	SARANYA DEVI V	III/ECE	V. Laryer
4.	732419106005	UMESH KUMAR S	III/ECE	P. Wart.
5.	732419106006	YOGESH S	III/ECE	3. Vmih
6.	732419106301	KAVIYA PRIYA G	III/ECE	Kun Pour
7.	732419106302	VIVEK S M	III/ECE	D.h. Whyle
8.	732418106004	SABITHA A	IV/ECE	Sabithe
9.	732418106005	SUJITHRA P	IV/ECE	P. Surthe
10.	732419105001	AJITH KUMAR S	III/EEE	Duch Ku
11.	732419105002	DINESH M	III/EEE	M. Dr
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13.	732419105005	PRAVEEN KUMAR M	III/EEE	M.D. ket
14.	732419103001	PRAKASH V	III/CIVIL	1 Roll
15.	732419103002	VIPIN H	III/CIVIL	Kirun
16.	732420114301	HARI GANESH B	II/MECH	7 Juni
17.	732420114302	PREMKUMAR Y	II/MECH	V. Profes
18.	732420114301	HARI GANESH B	II/MECH	p dui
19.	732420114302	PREMKUMAR Y	II/MECH	V Parkor
20.	732419114001	AMULRAJ P	III/MECH	6 A.J.
21.	732419114002	ARUNKUMAR B	III/MECH	B Ankim
22.	732419114003	KAVIKRISIINAN P	III/MECH	D Link
23.	732419114004	KISHORE B	III/MECH	R.Z
24.	732419114006	PAVENDHAR S	III/MECH	8. Ruf
25.	732419114007	PRIYADHARSHAN G	III/MECH	12 Juan
26.	732419114008	SELVENTHIRAN S	III/MECH	Of Solmer
27.	732419114010	THIRUNAVUKKARASU S	III/MECH	16 1

Dr.W.VIJAYAKUWAR ME., Ph.D., PRINCIPAL SASURIE COLLEGE OF ENGINEERING,

Vijayamangalam - 638 056, Tirupur (Dt).





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On 13.05.2022

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4.	732419106005	UMESH KUMAR S	III/ECE	9. West.
5.	732419106006	YOGESH S	III/ECE	S. Youh,
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9.	732418106005	SUJITHRA P	IV/ECE	P. Swille
10.	732419105001	AJITH KUMAR S	III/EEE	Duch ku
11.	732419105002	DINESH M	III/EEE	M. Dr
12.	732419105004	NAVEENKUMAR A	III/EEE	& Auch
13.	732419105005	PRAVEEN KUMAR M	III/EEE	M. Ruker
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22.	732419114003	KAVIKRISHNAN P	III/MECH	D dan ka
23.	732419114004	KISHORE B	III/MECH	B. L
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25.	732419114007	PRIYADHARSHAN G	III/MECH	12. Juan
26.	732419114008	SELVENTHIRAN S	III/MECH	Of Selmen
27.	732419114010	THIRUNAVUKKARASUS	III/MECH	Then k

V. Event Coordinator

Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).



Report on Research Methodology Programme

Title: MEMS and NEMS Research Techniques

Resource Person: Mr.Bose Vasantha,

Trainer,

Sunrise Electronics, Coimbatore-641001. DM.Kishorkumar,

Manager,

Sunrise Electronics, Coimbatore-641001.

Date of conduct ON: 13.05.2022 To: - Duration: 1 Day

Organized by:

ELECTRONICS AND COMMUNICATION ENGINEERING in association

with IQAC of our Institution

Academic Year: 2021 – 2022 Semester: EVEN

II, III, IV Year -Civil, ECE, EEE & Mech No. of Students Participated: 27

Venue: Seminar Hall-ECE

Participant Year:

Outcome of Research Methodology Programme

At the end of the Research Methodology Programme, Students can be able to

- Develop a comprehensive understanding of the principles and concepts of Microelectromechanical Systems (MEMS) and Nanoelectromechanical Systems (NEMS).
- · Gain knowledge of advanced research methods and techniques specific to MEMS and NEMS research.
- Apply research methods to investigate various research issues and challenges in MEMS and NEMS technology.
- Gain proficiency in simulating and modeling MEMS and NEMS devices using software tools such as COMSOL Multiphysics.
- Enhance their ability to communicate research findings effectively through written reports, presentations, and academic papers, adhering to academic standards and conventions in the field of MEMS and NEMS research.

Glimpse of Research Methodology Programme Photos



v. Gung

HoD/ ECE

Principal

Dr.M.VIJAYAKUMAR ME., Ph.E PRINCIPAL SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 058, Tirupur (Dt).



CERTIFICATE OF PARTICIPATION

This Certificate has been awarded to _____Mr.VIPIN H, III / CIVIL has participated in the Research Methodology Program on "MEMS and NEMS Research Techniques" conducted by the Department of Electronics and Communication Engineering in association with "Sunrise Electronics" and IQAC of Sasurie College of Engineering on 13.05.2022 during the Academic year 2021–2022.

N. P. T

IQAC Co-ordinator

Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIS COLLECE OF ENGINEERING,
VIJAYANDORS DE TOTAL

SASURIE COLLEGE OF ENGINEERING

SASURIE (Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Vijayamangalam, Tiruppur

CERTIFICATE OF PARTICIPATION

This Certificate has been awarded to _____Mr. PRAKASH V, III / CIVIL has participated in the Research Methodology Program on "MEMS and NEMS Research Techniques" conducted by the Department of Electronics and Communication Engineering in association with "Sunrise Electronics" and IQAC of Sasurie College of Engineering on 13.05.2022 during the Academic year 2021–2022.

V. P. T

IQAC Co-ordinator

Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
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Vijayamangalam - 638 055, Tirupur (Dt).



CERTIFICATE OF PARTICIPATION

This Certificate has been awarded to Mr. UMESH KUMAR S, III / ECE has participated in the Research Methodology Program on "MEMS and NEMS Research Techniques" conducted by the Department of Electronics and Communication Engineering in association with "Sunrise Electronics" and IQAC of Sasurie College of Engineering on 13.05.2022 during the Academic year 2021-2022.

W. P. W

IQAC Co-ordinator

JAYAKUMAR ME., Ph.D., SASURIE COLLEGE OF ENGINEERING



CERTIFICATE OF PARTICIPATION

This Certificate has been awarded to <u>Mr. AJITHKUMAR.S, III / EEE</u> has participated in the Research Methodology Program on "MEMS and NEMS Research Techniques" conducted by the Department of Electronics and Communication Engineering in association with "Sunrise Electronics" and IQAC of Sasurie College of Engineering on 13.05.2022 during the Academic year 2021–2022.

V. P. T

IQAC Co-ordinator

Dr.M.VIJAYAKUMAR ME., Ph.D.,
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SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).



CERTIFICATE OF PARTICIPATION

This Certificate has been awarded to _____Ms. SUIITHRA P, IV / ECE has participated in the Research Methodology Program on "MEMS and NEMS Research Techniques" conducted by the Department of Electronics and Communication Engineering in association with "Sunrise Electronics" and IQAC of Sasurie College of Engineering on 13.05.2022 during the Academic year 2021–2022.

V. P. V

IQAC Co-ordinator

Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,



CERTIFICATE OF PARTICIPATION

This Certificate has been awarded to <u>Mr. PREMKUMAR Y, II / MECH</u> has participated in the Research Methodology Program on "MEMS and NEMS Research Techniques" conducted by the Department of Electronics and Communication Engineering in association with "Sunrise Electronics" and IQAC of Sasurie College of Engineering on 13.05.2022 during the Academic year 2021–2022.

V. P. W

IQAC Co-ordinator

Dr.M.VIJAYAKUMAR ME., Ph.D.,
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Vijayamangalam - 638 056, Tirupur (Dt).



CERTIFICATE OF PARTICIPATION

This Certificate has been awarded to Mr. AMULRAJ P, III / MECH has participated in the Research Methodology Program on "MEMS and NEMS Research Techniques" conducted by the Department of Electronics and Communication Engineering in association with "Sunrise Electronics" and IQAC of Sasurie College of Engineering on 13.05.2022 during the Academic year 2021–2022.

V. P.

IQAC Co-ordinator

Dr.M.VIJAYAKUMAR ME., Ph.D.,
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This Certificate has been awarded to Mr. SELVENTHIRAN S. III / MECH has participated in the Research Methodology Program on "MEMS and NEMS Research Techniques" conducted by the Department of Electronics and Communication Engineering in association with "Sunrise Electronics" and IQAC of Sasurie College of Engineering on 13.05.2022 during the Academic year 2021–2022.

V. P. V

IQAC Co-ordinator

Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
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VIJAYAMARGAIAM - 638 056 THYRDY (DD)