



# 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 / ODD

27.09.2021

**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 two days workshop for the students of II, III and IV year of Civil, ECE, EEE & Mech on the title “Advanced Modulation Techniques Research Methods” from 04.10.2021 to 05.10.2021. At the end of the programme, participation certificates will be issued to the participants.



<b>Resource Person Details</b>	Mr.P.Manikandan, Manager, Vi-Microsystems.Pvt.Ltd, Chennai-600096	Dr.Vijaya Rajeswaran, CEO, Vi-Microsystems.Pvt.Ltd, Chennai-600096
<b>Venue</b>	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

  
**Dr.M.VIJAYAKUMAR** ME., Ph.D.,  
PRINCIPAL  
 **SASURIE COLLEGE OF ENGINEERING,**  
Vijayamangalam - 638 055, Tirupur (Dt).



# **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*

Two days Research Methodology Programme (RM)

On

“Advanced Modulation Techniques Research Methods”

Date : 04.10.2021 to 05.10.2021

Venue: Seminar Hall ECE

### **Resource Persons**

*Mr.P.Manikandan,*  
*Manager,*  
*Vi-Microsystems.Pvt.Ltd,*  
*Chennai-600096.*

*Dr.Vijaya Rajeshwaran,*  
*CEO,*  
*Vi-Microsystems.Pvt.Ltd,*  
*Chennai-600096.*

*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.,**  
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
ENGINEERING

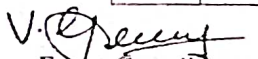
**Students Participation List – Research Methodology Programme**

**“Advanced Modulation Techniques Research Methods”**

**From 04.10.2021 to 05.10.2021**

**Academic Year : 2021 -2022 / ODD**

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	II/MECH
25.	732419114007	PRIYADHARSHAN G	III/MECH
26.	732419114008	SEL VENTHIRAN S	III/MECH
27.	732419114010	THIRUNAVUKKARASU S	III/MECH

  
 Event Coordinator

  
 HoD/ECE

  
**Dr. M. VIJAYAKUMAR** ME., Ph.D.,  
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
ENGINEERING

Students Attendance List – Research Methodology Programme

“Advanced Modulation Techniques Research Methods”

From 04.10.2021 to 05.10.2021

Academic Year : 2021 -2022 / ODD

S.No.	Reg No.	Name of the Student	Year / Branch	Signature
1.	732419106001	FEMEY S	III/ECE	S. Jeyu
2.	732419106003	MOWNEESH N	III/ECE	N. Mowneesh
3.	732419106004	SARANYA DEVI V	III/ECE	J. Saranya
4.	732419106005	UMESH KUMAR S	III/ECE	S. Umesh
5.	732419106006	YOGESH S	III/ECE	S. Yogesh
6.	732419106301	KAVIYA PRIYA G	III/ECE	Karni Priya
7.	732419106302	VIVEK S M	III/ECE	S.H. Vivek
8.	732418106004	SABITHA A	IV/ECE	S. Sabitha
9.	732418106005	SUJITHRA P	IV/ECE	P. Sujithra
10.	732419105001	AJITH KUMAR S	III/EEE	A. Ajith
11.	732419105002	DINESH M	III/EEE	H. Dinesh
12.	732419105004	NAVEENKUMAR A	III/EEE	A. Naveen
13.	732419105005	PRAVEEN KUMAR M	III/EEE	M. Praveen
14.	732419103001	PRAKASH V	III/CIVIL	V. Prakash
15.	732419103002	VIPIN H	III/CIVIL	H. Vipin
16.	732420114301	HARI GANESH B	II/MECH	B. Hari
17.	732420114302	PREMKUMAR Y	II/MECH	Y. Prem
18.	732420114301	HARI GANESH B	II/MECH	B. Hari
19.	732420114302	PREMKUMAR Y	II/MECH	Y. Prem
20.	732419114001	AMULRAJ P	III/MECH	P. Amulraj
21.	732419114002	ARUNKUMAR B	III/MECH	B. Arun
22.	732419114003	KAVIKRISHNAN P	III/MECH	P. Kavikrishnan
23.	732419114004	KISHORE B	III/MECH	B. Kishore
24.	732419114006	PAVENDHAR S	III/MECH	S. Pavendhar
25.	732419114007	PRIYADHARSHAN G	III/MECH	G. Priyadharshan
26.	732419114008	SELVENTHIRAN S	III/MECH	S. Selventhiran
27.	732419114010	THIRUNAVUKKARASU S	III/MECH	S. Thirunavukkarasu

V. Jeyu  
Event Coordinator

HOD/ECE

Dr.M.VIJAYAKUMAR ME., Ph.D.,  
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				FN	AN	FN	AN	
1.	732419106001	FEMEY S	III/ECE	/	/	/	/	S. Jey
2.	732419106003	MOWNEESH N	III/ECE	A	A	/	/	N. Venu
3.	732419106004	SARANYA DEVI V	III/ECE	/	/	/	/	V. Saranya
4.	732419106005	UMESH KUMAR S	III/ECE	/	/	/	/	S. G. Jey
5.	732419106006	YOGESH S	III/ECE	/	/	/	/	S. Yogesh
6.	732419106301	KAVIYA PRIYA G	III/ECE	/	/	/	/	Kavitha Priya
7.	732419106302	VIVEK S M	III/ECE	/	/	/	/	S. H. Vivek
8.	732418106004	SABITHA A	IV/ECE	/	/	/	/	Sabitha
9.	732418106005	SUJITHRA P	IV/ECE	/	/	/	/	P. Sujithra
10.	732419105001	AJITH KUMAR S	III/EEE	/	/	/	/	A. Jithan
11.	732419105002	DINESH M	III/EEE	/	/	/	/	D. Dinesh
12.	732419105004	NAVEENKUMAR A	III/EEE	/	/	/	/	A. Naveen
13.	732419105005	PRAVEEN KUMAR M	III/EEE	A	A	/	/	M. Praveen
14.	732419103001	PRAKASH V	III/CIVIL	/	/	/	/	V. Prakash
15.	732419103002	VIPIN H	III/CIVIL	/	/	/	/	H. Vipin
16.	732420114301	HARI GANESH B	II/MECH	/	/	/	/	B. Hari
17.	732420114302	PREMKUMAR Y	II/MECH	/	/	/	/	Y. Premkumar
18.	732420114301	HARI GANESH B	II/MECH	/	/	/	/	B. Hari
19.	732420114302	PREMKUMAR Y	II/MECH	/	/	/	/	Y. Premkumar
20.	732419114001	AMULRAJ P	III/MECH	/	/	/	/	P. Amulraj
21.	732419114002	ARUNKUMAR B	III/MECH	/	/	/	/	B. Arunkumar
22.	732419114003	KAVIKRISHNAN P	III/MECH	/	/	/	/	P. Kavikiran
23.	732419114004	KISHORE B	III/MECH	/	/	/	/	B. Kishore
24.	732419114006	PAVENDHAR S	III/MECH	/	/	/	/	S. Pavendhar
25.	732419114007	PRIYADHARSHAN G	III/MECH	A	A	/	/	G. Priyadarshan
26.	732419114008	SELVEN IHIRAN S	III/MECH	/	/	/	/	S. Selven
27.	732419114010	THIRUNAVUKKARASU S	III/MECH	/	/	/	/	S. Thirunavukkarasu

Event Coordinator  
V. Jey

HOD/ECE

Dr. M. VISAYAKUMAR ME., Ph.D.,  
PRINCIPAL



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



### Report on Research Methodology Programme

Title:	Advanced Modulation Techniques Research Methods				
Resource Person:	Mr.P.Manilkandan, Manager, VI-Microsystems.Pvt.Ltd, Chennai-600096	Dr.Vijaya Rajeswaran, CEO, VI-Microsystems.Pvt.Ltd, Chennai-600096			
Date of conduct ON :	04.10.2021	To:	05.10.2021	Duration:	2 Days
Organized by :	ELECTRONICS AND COMMUNICATION ENGINEERING in association with IQAC of our Institution				
Academic Year:	2021 – 2022		Semester:	ODD	
Participant Year:	II, III, IV Year -Civil, ECE, EEE & Mech		No. of Students Participated:	27	
Venue:	Seminar Hall-ECE				

### Outcome of Research Methodology Programme

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

- Develop a comprehensive understanding of advanced modulation techniques used in modern communication systems.
- Gain knowledge of research methods and techniques specific to the study of advanced modulation techniques.
- Apply research methods to investigate and analyze the performance and characteristics of advanced modulation techniques in various communication systems and scenarios.
- Develop skills in evaluating and analyzing the performance of advanced modulation techniques.
- Ability to communicate research findings effectively through written reports, presentations, and academic papers, adhering to academic standards and conventions in the field of communications engineering.

### Glimpse of Research Methodology Programme Photos



*V. Manilkandan*  
Event Co-ordinator

*[Signature]*  
HoD/ ECE

*[Signature]*  
Principal

*[Signature]*  
**Dr.M.VIJAYAKUMAR ME., Ph.D.,**  
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Vijayamangalam, Tiruppur

## CERTIFICATE OF PARTICIPATION

This is to Certify that Mr / Ms. HARI GANESH B, II/MECH  
has participated in the Research Methodology Program on "Advanced Modulation  
Techniques Research Methods" conducted by the Department of Electronics and  
Communication Engineering in association with "Vi-Microsystems.Pvt.Ltd" and  
IQAC of Sasurie College of Engineering from 04.10.2021 to 05.10.2021 during  
the Academic year 2021-2022.

**IQAC Co-ordinator**

**Principal**

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## CERTIFICATE OF PARTICIPATION

This is to Certify that Mr / Ms. PAVENDHAR S. III/MECH  
has participated in the Research Methodology Program on "Advanced Modulation  
Techniques Research Methods" conducted by the Department of Electronics and  
Communication Engineering in association with "Vi-Microsystems.Pvt.Ltd" and  
IQAC of Sasurie College of Engineering from 04.10.2021 to 05.10.2021 during  
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IQAC Co-ordinator

  
Principal

  
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Vijayamangalam, Tiruppur

## CERTIFICATE OF PARTICIPATION

This is to Certify that Mr / Ms. .... DINESH.M. III/EEE .....  
has participated in the Research Methodology Program on "Advanced Modulation  
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Communication Engineering in association with "Vi-Microsystems.Pvt.Ltd" and  
IQAC of Sasurie College of Engineering from 04.10.2021 to 05.10.2021 during  
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**IQAC Co-ordinator**

**Principal**

  
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This is to Certify that Mr / Ms. ....JAYAPRIYA R. IV/EEE.....  
has participated in the Research Methodology Program on "Advanced Modulation  
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**Principal**

  
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Vijayamangalam, Tiruppur

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This is to Certify that Mr / Ms. \_\_\_\_\_ VIVEK S M, III/ECE \_\_\_\_\_  
has participated in the Research Methodology Program on "Advanced Modulation  
Techniques Research Methods" conducted by the Department of Electronics and  
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**Principal**



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Vijayamangalam, Tiruppur

## CERTIFICATE OF PARTICIPATION

This is to Certify that Mr / Ms. \_\_\_\_\_ YOGESH S. III/ECE \_\_\_\_\_  
has participated in the Research Methodology Program on "Advanced Modulation  
Techniques Research Methods" conducted by the Department of Electronics and  
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IQAC of Sasurie College of Engineering from 04.10.2021 to 05.10.2021 during  
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**IQAC Co-ordinator**

**Principal**



**Dr.M.VIJAYAKUMAR ME., Ph.D.,**  
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Vijayamangalam, Tiruppur

## CERTIFICATE OF PARTICIPATION

This is to Certify that Mr / Ms. ....VIPIN H, III/CIVIL.....  
has participated in the Research Methodology Program on "Advanced Modulation  
Techniques Research Methods" conducted by the Department of Electronics and  
Communication Engineering in association with "Vi-Microsystems.Pvt.Ltd" and  
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**Principal**



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This is to Certify that Mr / Ms. .... PRAKASH V, III/CIVIL .....  
has participated in the Research Methodology Program on "Advanced Modulation  
Techniques Research Methods" conducted by the Department of Electronics and  
Communication Engineering in association with "Vi-Microsystems.Pvt.Ltd" and  
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the Academic year 2021-2022.

**IQAC Co-ordinator**

**Principal**



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