



# 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 ELECTRICAL AND ELECTRONICS ENGINEERING

Ref: SCE / EEE / Students / RM / 2019 – 2020 / EVEN

05.10.2020

**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 Electrical and Electronics 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 EEE on the title “Quantitative Research Methods in Electrical and Electronics Engineering” from 19.06.2020 to 20.06.2020. At the end of the programme, participation certificates will be issued to the participants.

<b>Resource Person Details</b>	T.Satheesh, Manager, M/s C CUBE Technologies, Erode-6380011.	B.JafferSadik, CEO, M/s C CUBE Technologies, Erode-6380011.
<b>Venue</b>	Online Gmeet-“ <a href="https://meet.google.com/idg-mngi-zzw">https://meet.google.com/idg-mngi-zzw</a> ”	

*V. Kanth*  
HoD/EEE

*UBycus*  
PRINCIPAL

Copy to:

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

*[Signature]*  
Dr.M.VIJAYAKRISHNAN, Ph.D.,  
PRINCIPAL  
SASURIE COLLEGE OF ENGINEERING,  
Vijayamangalam - 639 056, Tirupur (Dt).



# **SASURIE COLLEGE OF ENGINEERING**

**Vijayamangalam, Tiruppur**

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

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

*in association with IQAC*

*Cordially invites*

Two days Research Methodology Programme (RM)

On

“Quantitative Research Methods in Electrical and Electronics Engineering”

Date : 19.06.2020 to 20.06.2020

Venue: "<https://meet.google.com/idg-mngj-zzw>

**Resource Persons**

*Mr. T. Satheesh,*  
*Manager,*  
*M/s C CUBE Technologies,*  
*Erode.*

*Mr. B. Jaffer Sadik,*  
*CEO,*  
*M/s C CUBE Technologies,*  
*Erode.*

*in the esteemed presence of*

*Dr. K. Pandiarajan*  
*Principal*

*Shri A.M. Kandaswami*  
*Chairman*

*Ms. K. Savitha Moganraj*  
*Secretary*



**Dr. M. VIJAYAKUMAR** M.E., Ph.D.  
PRINCIPAL

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

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**Students Participation List – Research Methodology Programme**

**“Quantitative Research Methods in Electrical and Electronics Engineering”**

From 19.06.2020 to 20.06.2020

Academic Year : 2019 – 2020 / EVEN

S.No.	Reg No.	Name of the Student	Year / Branch
1.	732418105002	JAYAPRIYA R	II/EEE
2.	732417105002	ANJANA S	III/EEE
3.	732417105004	BARANIDHARAN P	III/EEE
4.	732417105006	KALEESWARAN P	III/EEE
5.	732417105007	KEERTHANA G	III/EEE
6.	732417105008	MALATHI S R	III/EEE
7.	732417105009	MARIA AROCKIYAM D	III/EEE
8.	732417105010	PRAKASH M	III/EEE
9.	732417105011	RAMESH KUMAR T	III/EEE
10.	732417105012	SATHISHKUMAR R	III/EEE
11.	732417105013	SEDHUMADHAVAN A	III/EEE
12.	732417105014	SHANMUGAM S	III/EEE
13.	732417105015	SOUNDARYA T	III/EEE
14.	732417105016	SREEVENI S	III/EEE
15.	732417105019	VIGNESH S	III/EEE
16.	732417105701	SEVVANDHI D	III/EEE
17.	732417105702	RANJITH C	III/EEE
18.	732416105001	AMSAVENI S	IV/EEE
19.	732416105002	ARIHARAN P	IV/EEE
20.	732416105003	BASKAR S	IV/EEE
21.	732416105004	BOOPATHI S	IV/EEE
22.	732416105005	DHARANI D	IV/EEE
23.	732416105006	HARISH D	IV/EEE
24.	732416105007	KALLALAHAR K S	IV/EEE
25.	732416105009	KARTHIKEYAN V	IV/EEE
26.	732416105010	KIRUBHAKARAN R	IV/EEE
27.	732416105011	NAVEENKUMAR M	IV/EEE
28.	732416105012	NAVEENKUMAR R	IV/EEE
29.	732416105013	PAVITHRA M	IV/EEE

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



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

**Students Participation List – Research Methodology Programme**

S.No.	Reg No.	Name of the Student	Year / Branch
30.	732416105014	RAJESHKUMAR M	IV/EEE
31.	732416105015	TAMILSELVAM G	IV/EEE
32.	732416105016	VANMATHI P	IV/EEE
33.	732416105017	VIDHYA V	IV/EEE
34.	732416105301	AJITH M	IV/EEE
35.	732416105302	GUNASEKARAN S	IV/EEE
36.	732416105501	CHANDHRAKUMAR M	IV/EEE

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

  
Event Coordinator

  
HoD/EEE

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**


**Students Attendance List – Research Methodology Programme**

**“Quantitative Research Methods in Electrical and Electronics Engineering”**

**From 19.06.2020 to 20.06.2020**

**Academic Year : 2019 – 2020 / EVEN**

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12.	732417105014	SHANMUGAM S	III/EEE
13.	732417105015	SOUNDARYA T	III/EEE
14.	732417105016	SREEVENI S	III/EEE
15.	732417105019	VIGNESH S	III/EEE
16.	732417105701	SEVVANDHI D	III/EEE
17.	732417105702	RANJITH C	III/EEE
18.	732416105001	AMSAVENI S	IV/EEE
19.	732416105002	ARIHARAN P	IV/EEE
20.	732416105003	BASKAR S	IV/EEE
21.	732416105004	BOOPATHI S	IV/EEE
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29.	732416105013	PAVITHRA M	IV/EEE
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**Dr.M.VIJAYAKUMAR ME., Ph.D.**  
 PRINCIPAL

**Students Attendance List – Research Methodology Programme**

S.No.	Reg No.	Name of the Student	Year / Branch
31.	732416105015	TAMILSELVAM G	IV/EEE
32.	732416105016	VANMATHI P	IV/EEE
33.	732416105017	VIDHYA V	IV/EEE
34.	732416105301	AJITH M	IV/EEE
35.	732416105302	GUNASEKARAN S	IV/EEE
36.	732416105501	CHANDHRAKUMAR M	IV/EEE

*S. Durg*  
Event Coordinator

*V. Karf*  
HoD/EEE

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

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Students Attendance List – Research Methodology Programme

**“Quantitative Research Methods in Electrical and Electronics Engineering”**

From 19.06.2020 to 20.06.2020

Academic Year: 2019 – 2020 / EVEN

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				FN	AN	FN	AN
1.	732418105002	JAYAPRIYA R	II/EEE	/	/	/	/
2.	732417105002	ANJANA S	III/EEE	/	/	/	/
3.	732417105004	BARANIDHARAN P	III/EEE	/	/	/	/
4.	732417105006	KALEESWARAN P	III/EEE	/	/	/	/
5.	732417105007	KEERTHANA G	III/EEE	/	/	/	/
6.	732417105008	MALATHI S R	III/EEE	/	/	/	/
7.	732417105009	MARIA AROCKIYAM D	III/EEE	/	/	/	/
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9.	732417105011	RAMESH KUMAR T	III/EEE	/	/	/	/
10.	732417105012	SATHISHKUMAR R	III/EEE	/	/	/	/
11.	732417105013	SIDDHUMADHAVAN A	III/EEE	/	/	/	/
12.	732417105014	SHANMUGAM S	III/EEE	/	/	/	/
13.	732417105015	SOUNDARYA T	III/EEE	/	/	/	/
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23.	732416105006	HARISH D	IV/EEE	/	/	/	/
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27.	732416105011	NAVEENKUMAR M	IV/EEE	/	/	/	/
28.	732416105012	NAVEENKUMAR R	IV/EEE	/	/	/	/
29.	732416105013	PAVITHRA M	IV/EEE	/	/	/	/

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



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				FN	AN	FN	AN
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31.	732416105015	TAMILSELVAM G	IV/EEE	/	/	/	/
32.	732416105016	VANMATHI P	IV/EEE	/	/	/	/
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34.	732416105301	AJITH M	IV/EEE	/	/	/	/
35.	732416105302	GUNASEKARAN S	IV/EEE	/	/	/	/
36.	732416105501	CHANDHRAKUMAR M	IV/EEE	/	/	/	/

*S. Dhand*  
Event Coordinator

*V. K. K.*  
HoD/EEE

*me*

Dr. M. VIJAYAKUMAR ME., Ph.D.,  
PRINCIPAL  
SASURIE COLLEGE OF ENGINEERING,  
Vijayamangalam - 628 056, Trichy (Dt).

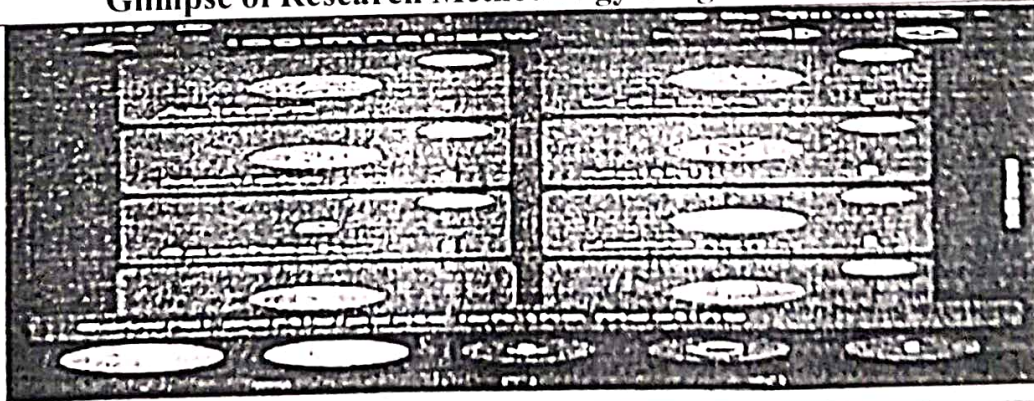
## Report on Research Methodology Programme

Title:	Quantitative Research Methods in Electrical and Electronics Engineering						
Resource Person:	T.Satheesh, Manager, M/s C CUBE Technologies, Erode-6380011.			B.JafferSadik, CEO, M/s C CUBE Technologies, Erode-6380011.			
Date of conduct From:	19.06.2020		To:	20.06.2020		Duration:	2 Days
Organized by :	ELECTRICAL AND ELECTRONICS ENGINEERING in association with IQAC of our Institution						
Academic Year:	2019 – 2020				Semester:	EVEN	
Participant Year:	II, III, IV Year - EEE			No. of Students Participated:	36		
Venue:	Online Gmeet-“ <a href="https://meet.google.com/idg-mngi-zzw">https://meet.google.com/idg-mngi-zzw</a> ”						

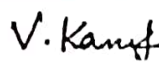
## Outcome of Research Methodology Programme

- At the end of the Research Methodology Programme, Students can be able to**
- Gain a comprehensive understanding of the principles and fundamentals of quantitative research methods in electrical and electronics engineering.
  - Learn about different quantitative research designs used in electrical and electronics engineering research, including experimental, correlational.
  - Learn how to formulate research hypotheses and research questions in quantitative research, including specifying variables, operationalizing constructs.
  - Explore sampling techniques used in quantitative research, including probability sampling and non-probability sampling.
  - Gain proficiency in quantitative data analysis techniques used in electrical and electronics engineering research, including descriptive statistics, inferential statistics.

## Glimpse of Research Methodology Programme Photos



  
 Event Co-ordinator

  
 HoD/ EEE

  
 Principal



## SASURIE COLLEGE OF ENGINEERING

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

### CERTIFICATE OF PARTICIPATION

This is to Certify that .....Mr. CHANDHRAKUMAR M. IV / EEE.....

has participated in the Research Methodology Program on "Quantitative Research Methods in Electrical and Electronics Engineering" conducted by the Department of Electrical and Electronics Engineering in association with "CUBE Technologies" and IQAC of Sasurie College of Engineering from 19.06.2020 to 20.06.2020 during the Academic year 2019-2020.

*P. Muzumdar Prasad*

IQAC Co-ordinator



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

*U.P. C.S.*

Principal



## SASURIE COLLEGE OF ENGINEERING


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Vijayamangalam, Tiruppur

### CERTIFICATE OF PARTICIPATION

This is to Certify that ..... Mr. GUNASEKARAN S. IV / EEE .....

has participated in the Research Methodology Program on "Quantitative Research Methods in Electrical and Electronics Engineering" conducted by the Department of Electrical and Electronics Engineering in association with "CUBE Technologies" and IQAC of Sasurie College of Engineering from 19.06.2020 to 20.06.2020 during the Academic year 2019-2020.

*P. Manojan Pragas*  
IQAC Co-ordinator

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

*U.P. C.S.*  
Principal



## SASURIE COLLEGE OF ENGINEERING

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Vijayamangalam, Tiruppur

### CERTIFICATE OF PARTICIPATION

This is to Certify that ..... Mr. AIITH M. IV / EEE.....

has participated in the Research Methodology Program on "Quantitative Research Methods in Electrical and Electronics Engineering" conducted by the Department of Electrical and Electronics Engineering in association with "CUBE Technologies" and IQAC of Sasurie College of Engineering from 19.06.2020 to 20.06.2020 during the Academic year 2019-2020.

*P. Manojan*  
IQAC Co-ordinator



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

*M. Vijayakumar*  
Principal



# SASURIE COLLEGE OF ENGINEERING

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Vijayamangalam, Tiruppur


## CERTIFICATE OF PARTICIPATION

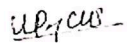
This is to Certify that ..... Mr. BARANIDHARAN P. III / EEE .....

has participated in the Research Methodology Program on "Quantitative Research Methods in Electrical and Electronics Engineering" conducted by the Department of Electrical and Electronics Engineering in association with "CUBE Technologies" and IQAC of Sasurie College of Engineering from 19.06.2020 to 20.06.2020 during the Academic year 2019-2020.

  
P. Manojan Prasad  
IQAC Co-ordinator



  
Dr. M. VIJAYAKUMAR ME., Ph.D.,  
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Principal



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Vijayamangalam, Tiruppur

### CERTIFICATE OF PARTICIPATION

This is to Certify that ..... Ms. ANJANA S. III / EEE .....

has participated in the Research Methodology Program on "Quantitative Research Methods in Electrical and Electronics Engineering" conducted by the Department of Electrical and Electronics Engineering in association with "CUBE Technologies" and IQAC of Sasurie College of Engineering from 19.06.2020 to 20.06.2020 during the Academic year 2019-2020.

*P. Manojan Pragasam*  
IQAC Co-ordinator



*M.V.*  
Dr.M.VIJAYAKUMAR ME., Ph.D.,  
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*M.V.*  
Principal



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Vijayamangalam, Tiruppur

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This is to Certify that ..... Ms. JAYAPRIYA R. II / EEE .....

has participated in the Research Methodology Program on "Quantitative Research Methods in Electrical and Electronics Engineering" conducted by the Department of Electrical and Electronics Engineering in association with "CUBE Technologies" and IQAC of Sasurie College of Engineering from 19.06.2020 to 20.06.2020 during the Academic year 2019-2020.

*P. Muzumdar*  
IQAC Co-ordinator

*Me*

*U.P. C.S.*  
Principal



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