



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Trichytrappaff - 620 012
Approved by AJCTE, New Delhi & Affiliated to Anna University, Chennai
NAAC Accredited, 2(F) Status Institution by UGC



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Academic Year 2022-23 EVEN semester

06.03.2023

CIRCULAR

Department of Electronics and Communication Engineering in association with IQAC of IGCE are going to organize one day Research Methodology Seminar on “Application of Cross Tabulation & Chi-Square Testing in Hypothesis” for All II, III and IV year students of ECE on 10.03.2023. Certificates will be issued to all participants at the end of the course.

Resource Person	Dr.R.Bharath Kumar, Associate Professor/ ECE Jaya Engineering College, Chennai
Venue	ECE Seminar Hall, IGCE


HOD/ECE


PRINCIPAL

Cc:

- Principal office
- IQAC Co-ordinator
- Class In Charges-II,III & IV-Year
- All II, III & IV-Year ECE Students
- Office File
- Notice Board


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Indra Ganesan
COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Truchinappalli - 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
NAAC Accredited, 3(P) Status Institution by IGCE



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

In association with IQAC, IGCE

cordially invites,

One day Research Methodology

Seminar

On

“Application of Cross Tabulation & Chi-square Testing in Hypothesis”

Date :10.03.2023

Venue: ECE seminar Hall, IGCE

Resource Person

**Dr.R.Bharath Kumar,
Associate Professor /ECE ,
Jaya Engineering College, Chennai**

In the esteemed presence of

Prof. M .Bhuvaneswari
HOD/ECE


Dr. G. Balakrishnan

Director

Dr. V.S.Thangarasu
Principal

Er. G.Rajasekaran

Secretary


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Indra Ganesan
COLLEGE OF ENGINEERING

Madurai Main Road (NH-456), Manikandam, Trichyappalli - 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
NAAC Accredited, 3(F) Status Institution by UGC



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING**

AGENDA

One day Research Methodology Seminar

On

“Application of Cross Tabulation & Chi-Square Testing in Hypothesis”

Date : 10.03.23

TIME: 10.00am

VENUE : ECE seminar Hall, IGCE

Welcome Address&

Chief Guest Introduction : Dr.M.Bhuvaneswari – HoD/ECE

Resource person : Dr.R.Bharath Kumar, Associate Professor/ ECE,
Jaya Engineering College, Chennai.

Topics : Application of Cross Tabulation & Chi-Square
Testing in Hypothesis

Forenoon : Session –I (Computation Of Crosstabs in SPSS)

Afternoon : Session – II (Hypothesis Testing with Chi-Squared)

Vote of Thanks : Mrs.B.Saraswathi, Assistant Professor/ECE


Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Indra Ganesan
COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
NASC Accredited, 2(F) Status Institution by UGC



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2022-23 / EVEN SEMESTER

**One Day Research Methodology
Seminar on**

**“Application of Cross Tabulations & Chi-Square testing in
Hypothesis”**

STUDENTS LIST

Date: 10.03.2023

S.No	Register Number	Student's Name	Year/Branch
1	811219106001	Dayana P	IV/ECE
2	811219106002	Devika K	IV/ECE
3	811219106003	Dinesh J	IV/ECE
4	811219106004	Mobana Sundaram K	IV/ECE
5	811219106005	Ravikumar B	IV/ECE
6	811219106006	Santhanaraj A	IV/ECE
7	811219106008	Srikanth M	IV/ECE
8	811219106009	Surendran S	IV/ECE
9	811219106010	Surya V	IV/ECE
10	811219106011	Swetha K	IV/ECE
11	811219106301	Yuvashree S	IV/ECE
12	811219106701	Vijayalakshmi V	IV/ECE
13	811219106702	Ponnarasu S	IV/ECE
14	811220106006	Banu priya G	III/ECE
15	811220106008	Bharathidasan C	III/ECE
16	811220106018	J.Jancy	III/ECE
17	811220106019	Jeevasen N	III/ECE

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-490), Manikandam, Trichirappalli - 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
NAAC Accredited, 2(F) Status Institution by '1G'



S.No	Reg.No	Student Name	Year/Branch
18	811220106021	Kamaraj.S	III/ECE
19	811220106022	C.karthick	III/ECE
20	811220106023	S.Karthika	III/ECE
21	811220106025	Kishore R	III/ECE
22	811220106026	M. Kishore kumar	III/ECE
23	811220106028	Mancy.E	III/ECE
24	811220106031	Pradhap.J	III/ECE
25	811220106032	Prasanna.J	III/ECE
26	811220106033	Preethika.M	III/ECE
27	811220106034	Premalatha.M	III/ECE
28	811220106037	Shri Harini Priya B	III/ECE
29	811220106038	M.Snega	III/ECE
30	811220106039	N.Sobi amirtha	III/ECE
31	811220106041	Sunil Kumar B	III/ECE
32	811220106042	Susila N	III/ECE
33	811220106049	Yoga priya.R	III/ECE
34	811220106301	Anand R	III/ECE
35	811220106302	Kiruthika R	III/ECE
36	811220106304	Rajesh R	III/ECE

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Indra Ganesan COLLEGE OF ENGINEERING


Madurai Main Road (M-1466), Manikandam, Trichyappalli - 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
NAAC Accredited, 2(7) Status Institute by UGC



S.No	Reg.No	Student Name	Year/Branch
37	811221106001	Aarthi.S	II/ECE
38	811221106003	Arockia jenifer.M	II/ECE
39	811221106005	Deepalakshmi.S	II/ECE
40	811221106008	Dhinesh babu.C	II/ECE
41	811221106012	Jaya kamakshe radha.S.P	II/ECE
42	811221106022	Parkavi.S	II/ECE
43	811221106024	Premkumer.S	II/ECE
44	811221106033	Thamilarasi.C	II/ECE
45	811221106034	Thrisha.S	II/ECE
46	811221106035	Veerakumar.R	II/ECE
47	811221106036	Vellaisamy.S	II/ECE
48	811221106037	Victorraj.S	II/ECE
49	811221106040	Vishal.V	II/ECE
50	811221106301	Om prakash.R	II/ECE


RM Coordinator


HOD/ECE


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Indra Ganesan
COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2022-23 / EVEN SEMESTER

One Day Research Methodology Seminar on

“Application of Cross Tabulations & Chi-Square testing in Hypothesis”

STUDENTS PARTICIPATION LIST

S.No	Register Number	Student's Name	Year/Branch	Signature of the student
1	811219106001	Dayana P	IV/ECE	Dayana P.
2	811219106002	Devika K	IV/ECE	Devika K.
3	811219106003	Dinesh J	IV/ECE	Dinesh J.
4	811219106004	Mohanz Sundaram K	IV/ECE	Mohanz Sundaram K.
5	811219106005	Ravikumar B	IV/ECE	Ravikumar B.
6	811219106006	Santhana A	IV/ECE	Santhana A.
7	811219106008	Srikanth M	IV/ECE	Srikanth M.
8	811219106009	Surendran S	IV/ECE	Surendran S.
9	811219106010	Surya V	IV/ECE	Surya V.
10	811219106011	Swetha K	IV/ECE	Swetha K.
11	811219106301	Yuvashree S	IV/ECE	Yuvashree S.
12	811219106701	Vijayalaxmi V	IV/ECE	Vijayalaxmi V.
13	811219106702	Ponnerasu S	IV/ECE	Ponnerasu S.
14	811220106006	Banu priya G	III/ECE	Banu Priya G.
15	811220106008	Bharathidasan C	III/ECE	Bharathidasan C.
16	811220106011	J.Jancy	III/ECE	J. Jancy.
17	811220106019	Jeevasen N	III/ECE	Jeevasen N.

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Indra Ganesan
COLLEGE OF ENGINEERING



S.No	Reg.No	Student Name	Year/Branch	Signature of the student
18	811220106021	Kamaraj.S	II/ECE	S. Kamaraj
19	811220106022	C.karthick	III/ECE	C.karthick
20	811220106023	S.Karthika	III/ECE	S. Karthika
21	811220106025	Kishore R	III/ECE	R. Kishore
22	811220106026	M. Kishore kumar	III/ECE	M. Kishore Kumar
23	811220106028	Macey.E	III/ECE	E. Macey
24	811220106031	Prashant J	III/ECE	J. Prashant
25	811220106032	Prasanna.J	III/ECE	J. Prasanna
26	811220106033	Preethika.M	III/ECE	M. Preethika
27	811220106034	Premalatha.M	III/ECE	M. Premalatha
28	811220106037	Sri Harini Priya B	III/ECE	B. Sri Harini Priya
29	811220106038	M Sneha	III/ECE	M. Sneha
30	811220106039	N.Sobi anirtha	III/ECE	N. Sobi Anirtha
31	811220106041	Sanil Kumar B	III/ECE	B. Sanil Kumar
32	811220106042	Susila N	III/ECE	N. Susila
33	811220106049	Yoga priya.R	III/ECE	R. Yoga Priya
34	811220106301	Ariand R	III/ECE	R. Ariand
35	811220106302	Kiruthika N	III/ECE	N. Kiruthika
36	811220106304	Rajesh B	III/ECE	B. Rajesh

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



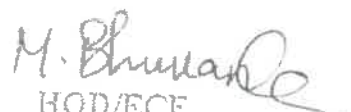
Indra Ganesan


COLLEGE OF ENGINEERING
Madurai Main Road, Nellikudi, Manikandam, Trichy-620 012
Tn. 620 012, No. 1, S.A. Road, Manikandam, Trichy, Tamil Nadu



S.No	Reg.No	Student Name	Year/Branch	Signature of the student
37	811221106001	Aarthi.S	II/ECE	S. Aarthi
38	811221106003	Arockia jenifer.M	II/ECE	M. Jenifer
39	811221106005	Deepalakshmi.S	II/ECE	S. Deepa
40	811221106008	Dhinesh babu.C	II/ECE	C. Dhinesh
41	811221106012	Jaya kamakshie radha.S.P	II/ECE	S. Jayakamathi
42	811221106022	Pargavi.S	II/ECE	S. Pargavi
43	811221106024	Prentkumer.S	II/ECE	S. Prentkumer
44	811221106033	Thamilarasi.C	II/ECE	C. Thamilarasi
45	811221106034	Thirisha.S	II/ECE	S. Thirisha
46	811221106035	Veerakumar.R	II/ECE	R. Veerakumar
47	811221106036	Vellaisamy.S	II/ECE	S. Vellaisamy
48	811221106037	Victorraj.S	II/ECE	S. Victorraj
49	811221106040	Vishal.V	II/ECE	V. Vishal
50	811221106301	Om parkash.R	II/ECE	R. Om Parkash


RM Coordinator


HOD/ECE


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Indra Ganesan
COLLEGE OF ENGINEERING



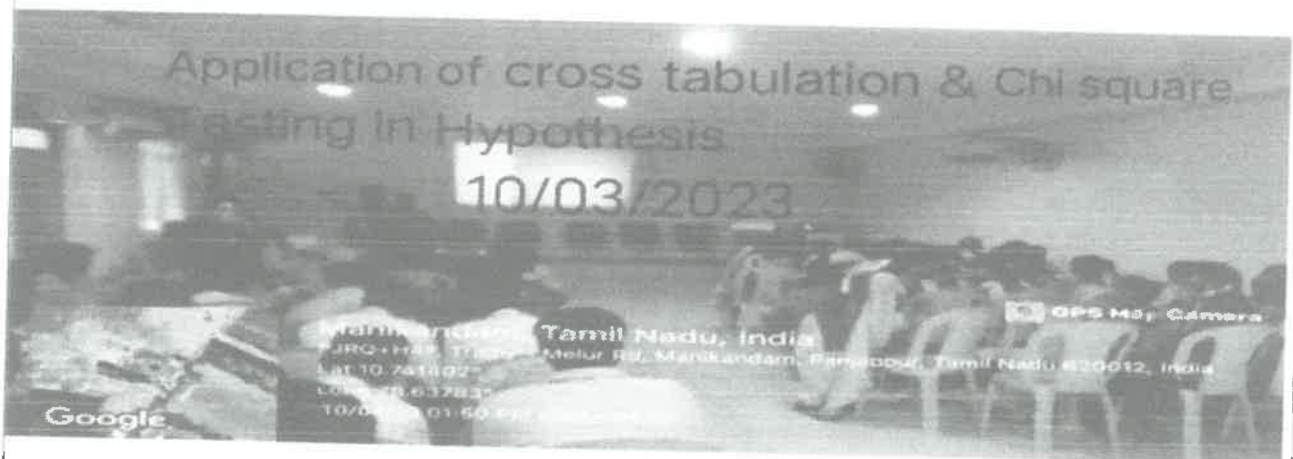
Report on One day Research Methodology Seminar

Title:	One Day Research Methodology Seminar on "Application of Cross Tabulation & Chi-Square Testing in Hypothesis"		
Resource Person:	Dr.R.Bharath Kumar, Associate Professor-ECE Jaya Engineering College,Chennai		
Date of conduct from:	10.03.2023	To:	-
		Duration:	1 Day
Organized Department:	ELECTRONICS AND COMMUNICATION ENGINEERING		
Participant Year:	2,3,4	No.of Students Registered:	50
Venue:	ECE seminar Hall, IGCE		

Outcome of the RM :At the end of the Course. Students can able to

- Know how to display a breakdown of the data by two variables
- Determine whether the results of a crosstab are statistically significant
- Know the null hypothesis which means nothing interesting happening
- Evaluate the crosstabs and chi-squared in SPSS
- Apply Cross tabulation and chi-square testing in product development

Glimpse from the event.



BKG

RM Coordinator

M. Bhuvaneshwar
HoD/ECE

Kodhar
Principal

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Mankandam, Trichy-620 012.



Indra Ganesan
COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
NAAC Accredited, 2F1 Status Institution by UGC



CERTIFICATE

This is to certify that Mr/Ms.SWETHA.K of IV YEAR ECE has participated in the One Day Research Methodology Seminar on Application of Cross Tabulation & Chi-Square Test in Hypothesis organized by Electronics and Communication Engineering in association with IQAC, IGCE on 10th March 2023 during the Academic Year 2022 -2023.

M. Praveen Kumar

HOD/ECE

[Signature]
Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

[Signature]
PRINCIPAL



Indra Ganesan
COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
NAAC Accredited: 3(P) Status Instituted by UGC



CERTIFICATE

This is to certify that Mr/Ms.JANCY.J of III YEAR ECE has participated in the One Day Research Methodology Seminar on Application of Cross Tabulation & Chi-Square Testing in Hypothesis organized by Electronics and Communication Engineering in association with IQAC, IGCE on 10th March 2023 during the Academic Year 2022 -2023.

M. Subramanian

HOD/ECE

[Signature]

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

[Signature]
PRINCIPAL



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B) Manikandam, Tiruchirappalli - 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
NAAC Accredited, T-12 Status Institution by UGC



CERTIFICATE

This is to certify that Mr/Ms.VISHAL.V of II YEAR ECE has participated in the One Day Research Methodology Seminar on Application of Cross Tabulation & Chi-Square Testing in Hypothesis organized by Electronics and Communication Engineering in association with IQAC, IGCE on 10th March 2023 during the Academic Year 2022 -2023.

M. Bhuvanendra C.

HOD/ECE

[Signature]
Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

[Signature]
PRINCIPAL