



# Indra Ganesan

**COLLEGE OF ENGINEERING**  
Madurai Main Road (NH-458), Manikandam, Trichy-12.  
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

**DEPARTMENT INFORMATION TECHNOLOGY**

Academic Year 2020-2021 Even semester

16.03.2021

## CIRCULAR

Department of Information Technology in association with IQAC of IGCE are going to organize Two days Research Methodology Workshop on “Application of AI in robot manipulation for deep visual models” for III and IV year students of IT on 19.03.2021-20.03.21. Certificates will be issued to all participants at the end of the course.


Resource Person	Dr.S.Vanaja, Project Manager Verzeo Technologies
Venue	IT Seminar Hall, IGCE

  
HOD/IT

  
PRINCIPAL

Cc:

- Principal office
- IQAC Co-ordinator
- Class In Charges-II & III-Year
- II & III-Year IT 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, Trichy-12.  
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**In association with IQAC, IGCE**

**Cordially invites,**

**Two days Research Methodology**

**Workshop**

**On**

**“Application of AI in robot manipulation for deep visual models”**

**Date :19.03.2021-20.03.2021**

**Venue: IT Seminar Hall**

**Resource Person**

**Dr.S.Vanaja,**

**Project Manager**

**Verzeo Technologies**

**In the esteemed presence of**

**Mrs.K.Uthradevi**  
**HOD/IT**

**Dr. S.BharathiRaja**  
**Principal**

**Dr. G. Balakrishnan**  
**Director**

**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-46B), Manikandam, Trichy-12.  
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

## DEPARTMENT OF INFORMATION TECHNOLOGY

### AGENDA

#### Two days Research Methodology Workshop

On

**“Application of AI in robot manipulation for deep visual models”**

Date :19.03.2021-20.03.21

TIME: 10.00am

VENUE : IT Seminar Hall

#### Welcome Address&

Chief Guest Introduction :Mr.s.K.Uthradevi– HoD/IT

Resource person : Dr.S.Vanaja,  
Project Manager

Verzeo Technologies

Topics : Application of Database Queries in Automated

Reasoning.

Forenoon : Session –I (Introduction of Database Queries)

Afternoon : Session – II (Automated Reasoning in Database queries)

Vote of Thanks : Mrs.S.Saroja Devi, Assistant Professor/ IT

**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, Trichy-12.  
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

DEPARTMENT OF INFORMATION TECHNOLOGY

ACADEMIC YEAR 2020-21 / EVEN SEMESTER

Two Days Research Methodology  
Workshop on

“Application of AI in robot manipulation for deep visual models”

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

## STUDENTS LIST

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

Date: 19.03.2021

S.NO	Register Number	Name	Dept / Year
1	811217205001	Anitha G	IV/IT
2	811217205002	Balaji V	IV/IT
3	811217205003	Gopal P	IV/IT
4	811217205004	Hariharan S	IV/IT
5	811217205005	Karthick A	IV/IT
6	811217205006	Lisha Y	IV/IT
7	811217205007	Lokeshwaran V	IV/IT
8	811217205008	Merciya Mary A	IV/IT
9	811217205009	Mohamed Riyaj Khan M	IV/IT
10	811217205010	Mukesh Kanna S	IV/IT
11	811217205011	Pakkiyalakshmi A	IV/IT
12	811217205013	Sankar C	IV/IT
13	811217205015	Santhiya K	IV/IT
14	811217205016	Saranya C	IV/IT
15	811217205017	Sudhahar S	IV/IT
16	811217205018	Swetha K	IV/IT
17	811217205019	Tamilselvi M	IV/IT
18	811217205020	Thiruppathi S	IV/IT
19	811217205021	Vijayaraj S	IV/IT
20	811217205022	Vijay Joseph P	IV/IT
21	811216205001	Anusuya Devi R	III / IT
22	811216205003	Balambigai A	III / IT
23	811216205004	Bharath C	III / IT
24	811216205005	Boopalan K	III / IT
25	811216205006	Jeevamani M	III / IT
26	811216205007	Jeyapriya D	III / IT
27	811216205008	Kalaiyarasi N	III / IT

S.NO	Register Number	Name	Dept / Year
28	811216205009	Kanagavalli J	III / IT
29	811216205010	Keerthika R	III / IT
30	811216205011	Krishnan K	III / IT
31	811216205012	Muthulakshmi P	III / IT
32	811216205013	Nandhini C	III / IT
33	811216205014	Nelson	III / IT
34	811216205015	Parameshwari K	III / IT
35	811216205016	Poovaragavan	III / IT
36	811216205017	Priyadharshini A	III / IT
37	811216205018	Radhika M	III / IT
38	811216205019	Roshini A	III / IT
39	811216205020	Rubini K	III / IT
40	811216205022	Savithri S	III / IT
41	811216205023	Selvapathi V	III / IT
42	811216205024	Sivakavi S	III / IT
43	811216205025	Sivakumar S	III / IT
44	811216205026	Thanisha S	III / IT
45	811216205027	Thasthagir S	III / IT
46	811216205028	Victoriyarani T	III / IT
47	811216205029	Vidhyasri M	III / IT
48	811216205030	Wasim Akram M	III / IT
49	811216205501	Aravindhan S	III / IT

  
RM Coordinator



  
HOD/IT

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, Trichy-32.  
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

DEPARTMENT OF INFORMATION TECHNOLOGY

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

Principal

ACADEMIC YEAR 2020-21 / EVEN SEMESTER

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

Two Days Research Methodology  
Workshop on

“Application of AI in robot manipulation for deep visual models”

## STUDENTS PARTICIPATION LIST

S.NO	Register Number	Name	Year	19.03.21		20.03.21		NO OF SESSIONS ATTENDED	SIGN OF THE STUDENT
				FN	AN	FN	AN		
1	811217205001	Anitha G	IV	/	/	/	A	3	onlinemode
2	811217205002	Balaji V	IV	/	/	A	/	3	onlinemode
3	811217205003	Gopal P	IV	/	/	A	/	3	onlinemode
4	811217205004	Hariharan S	IV	/	/	/	A	3	onlinemode
5	811217205005	Karthick A	IV	/	/	/	/	4	onlinemode
6	811217205006	Lisha Y	IV	/	/	/	/	4	onlinemode
7	811217205007	Lokeshwaran V	IV	/	/	/	/	4	onlinemode
8	811217205008	Merciya Mary A	IV	/	/	/	/	4	onlinemode
9	811217205009	Mohamed Riyaj Khan M	IV	/	/	/	/	4	onlinemode
10	811217205010	Mukesh Kanna S	IV	/	/	/	/	4	onlinemode
11	811217205011	Pakkiyalakshmi A	IV	/	/	/	/	4	onlinemode
12	811217205013	Sankar C	IV	/	/	/	/	4	onlinemode
13	811217205015	Santhiya K	IV	/	/	/	/	4	onlinemode
14	811217205016	Saranya C	IV	/	/	/	/	4	onlinemode
15	811217205017	Sudhahar S	IV	/	/	/	/	4	onlinemode
16	811217205018	Swetha K	IV	/	/	/	/	4	onlinemode
17	811217205019	Tamilselvi M	IV	/	/	/	/	4	onlinemode
18	811217205020	Thiruppathi S	IV	/	/	/	/	4	onlinemode
19	811217205021	Vijayaraj S	IV	/	/	/	/	4	onlinemode
20	811217205022	Vijay Joseph P	IV	/	/	/	/	4	onlinemode
21	811216205001	Anusuya Devi R	III	/	/	/	/	4	onlinemode
22	811216205003	Balambigai A	III	/	/	/	/	4	onlinemode
23	811216205004	Bharath C	III	/	/	/	/	4	onlinemode
24	811216205005	Boopalan K	III	/	/	/	/	4	onlinemode
25	811216205006	Jeevamani M	III	/	/	/	/	4	onlinemode

S.NO	Register Number	Name	Year	19.03.21		20.03.21		NO OF SESSIONS ATTENDED	SIGN OF THE STUDENT
				FN	AN	FN	AN		
26	811216205007	Jeyapriya D	III	/	/	/	/	4	onlinemode
27	811216205008	Kalaiyarasi N	III	/	/	/	/	4	onlinemode
28	811216205009	Kanagavalli J	III	/	/	/	/	4	onlinemode
29	811216205010	Keerthika R	III	/	/	/	/	4	onlinemode
30	811216205011	Krishnan K	III	/	/	/	/	4	onlinemode
31	811216205012	Muthulakshmi P	III	/	/	/	/	4	onlinemode
32	811216205013	Nandhini C	III	/	/	/	/	4	onlinemode
33	811216205014	Nelson	III	/	/	/	/	4	onlinemode
34	811216205015	Parameshwari K	III	/	/	/	A	3	onlinemode
35	811216205016	Poovaragavan	III	/	/	/	/	4	onlinemode
36	811216205017	Priyadharshini A	III	/	/	/	/	4	onlinemode
37	811216205018	Radhika M	III	/	/	/	/	4	onlinemode
38	811216205019	Roshini A	III	/	/	/	/	4	onlinemode
39	811216205020	Rubini K	III	/	/	/	/	4	onlinemode
40	811216205022	Savithri S	III	/	/	/	/	4	onlinemode
41	811216205023	Selvapathi V	III	/	/	/	/	4	onlinemode
42	811216205024	Sivakavi S	III	/	/	/	/	4	onlinemode
43	811216205025	Sivakumar S	III	/	/	/	/	4	onlinemode
44	811216205026	Thanisha S	III	/	/	/	/	4	onlinemode
45	811216205027	Thasthagir S	III	/	/	/	/	4	onlinemode
46	811216205028	Victoriyarani T	III	/	/	/	/	4	onlinemode
47	811216205029	Vidhyasri M	III	/	/	/	/	4	onlinemode
48	811216205030	Wasim Akram M	III	/	/	/	/	4	onlinemode
49	811216205501	Aravindhana S	III	/	/	/	/	4	onlinemode

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

Principal

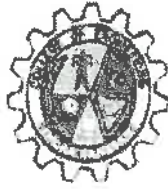
Indra Ganesan College of Engineering

IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

RM Coordinator

HOD/IT



# Indra Ganesan

**COLLEGE OF ENGINEERING**  
Madurai Main Road (NH-45B), Manikandam, Trichy-12.  
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

## Report on Two days Research Methodology Workshop

Title:	Two Days Research Methodology Workshop on "Application of AI in robot manipulation for deep visual models"		
Resource Person:	Dr.S. Vanaja, Project Manager Verzeo Technologies		
Date of conduct from:	19.03.2021- 20.03.21	To:	-
Duration:	2 Days		
Organized Department:	INFORMATION TECHNOLOGY		
Participant Year:	3,4	No.of Students Registered:	49
Venue:	IT Seminar Hall meet.google.com/fkc-yifm-zur		

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

- Learning visual predictive models has great potential for real-world robot manipulations.
- Visual predictive models serve as a model of real-world dynamics to comprehend the interactions
- Address this limitation, we present a novel formulation for robot manipulation that can be accomplished
- Propose a novel visual predictive model that combines an action decomposer and a video prediction network
- sampling-based planner, our model achieves a higher success rate using high-level actions on a variety of real robot manipulation tasks.

### Glimpse from the event.



RM Coordinator

H6D/IT

Principal

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

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





# Indra Ganesan

**COLLEGE OF ENGINEERING**  
Madurai Main Road (NH-45B), Manikandam, Trichy-12.  
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

## CERTIFICATE

*This is to certify that Mr.P.Gopal of IV YEAR IT has participated in the Two Days Research Methodology Workshop on “Application of AI in robot manipulation for deep visual models” organized by INFORMATION TECHNOLOGY in association with IQAC, IGCE on 19/03/2021-20/03/21 during the Academic Year 2020 -2021.*

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

**HOD/IT**

**PRINCIPAL**



# Indra Ganesan

**COLLEGE OF ENGINEERING**

Madurai Main Road (NH-45B), Manikandam, Trichy-12.

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

## CERTIFICATE

*This is to certify that Ms. Swetha.M of IV YEAR IT has participated in the Two Days Research Methodology Workshop on “Application of AI in robot manipulation for deep visual models” organized by INFORMATION TECHNOLOGY in association with IQAC, IGCE on 19/03/2021-20/03/21 during the Academic Year 2020 -2021.*

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

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

**HOD/IT**

**PRINCIPAL**



# Indra Ganesan

**COLLEGE OF ENGINEERING**  
Madurai Main Road (NH-45B), Manikandam, Trichy-12.  
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

## CERTIFICATE

*This is to certify that Ms.Roshini.A of III YEAR IT has participated in the Two Days Research Methodology Workshop on “Application of AI in robot manipulation for deep visual models” organized by INFORMATION TECHNOLOGY in association with IQAC, IGCE on 19/03/2021-20/03/21 during the Academic Year 2020 -2021.*

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

**HOD/IT**

**PRINCIPAL**