



# Indra Ganesan

## COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai  
Accredited by NAAC with 'B+' Grade, 2(f) & 12B Status Institution by UGC

IG Valley, Madurai Main Road, Manikandam, Tiruchirappalli - 620012

# NAAC DOCUMENTS

## QUALITY INDICATOR FRAME WORK

### CRITERION – 3

## RESEARCH, INNOVATIONS AND EXTENSION

SUBMITTED BY

# IQAC

INTERNAL QUALITY ASSURANCE CELL

## INDRA GANESAN COLLEGE OF ENGINEERING





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

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that the various departments of Indra Ganesan College of Engineering have signed MoUs with industries and the total number of MoUs signed for faculty exchange, student exchange, internship, field project, on-the-job training, research and other academic activities during the last five years are listed below.

Academic Year	2022-23	2021-22	2020-21	2019-20	2018-19
Number of MoU activities	11	9	6	4	5
Total number of companies signed without repetition during renewal	35				

**Principal**

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

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<b>Criteria 3</b>	<b>Research, Innovations and Extension</b>	<b>110</b>
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### **Key Indicator - 3.5 Collaboration**

**3.5.1. Number of MoUs, collaborations/linkages for Faculty exchange, Student exchange, Internship, Field project, On-the- job training, research and other academic activities during the last five years**

#### **SUPPORTING DOCUMENTS**

The supporting documents pertaining to this metric 3.5.1 exceeds 5 Mb data hence the supporting document was uploaded in the Institution website. Please click the below link to download the supporting document.

<b>Particulars</b>	<b>Academic Year</b>	<b>Total No of MoUs</b>
<b>Number of MoUs with activities</b>	<b>2022-23</b>	<b>11</b>
	<b>2021-22</b>	<b>9</b>
	<b>2020-21</b>	<b>6</b>
	<b>2019-20</b>	<b>4</b>
	<b>2018-19</b>	<b>5</b>
<b>Total Number of companies signed without repetition during renewal</b>		<b>35</b>

**3.5.1. Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years**

Sl. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (nternship, on-the-job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage	List the actual activities under each MOU/ Linkage and web -links year-wise	Link to the relevant document
<b>ACADEMIC YEAR-2022-2023</b>							
1	Institute-Industry	VallMann Tech (P) Ltd Ujesh Towers,73-B/3/1,Salai Road,Annamalai Nagar,Trichy-620018	2022-2023	Guest Lecture	3 years	DATA WAREHOUSING, BUSINESS ANALYSIS AND ON-LINE ANALYTICAL PROCESSING (OLAP)	<a href="https://igceng.com/naac/c3/3_5_1_2022-2023_CSE-1.pdf">https://igceng.com/naac/c3/3_5_1_2022-2023_CSE-1.pdf</a>
2	Institute-Industry	Azatech Company Hanifa Colony, Sangiliyandapuram,Trichy-620020	2022-2023	Research Methodology	3 years	1.Research Methodology-Trial and Error Method for optimal function using machine learning	<a href="https://igceng.com/naac/c3/3_5_1_2022-2023_CSE-2.pdf">https://igceng.com/naac/c3/3_5_1_2022-2023_CSE-2.pdf</a>
3	Institute-Industry	Microwin Automation , Tiruchirappalli	2022-2023	Research Methodology	3 years	Integration of Research and innovation in Institutions	<a href="https://igceng.com/naac/c3/3_5_1_2022-2023_EEE-1.pdf">https://igceng.com/naac/c3/3_5_1_2022-2023_EEE-1.pdf</a>
4	Institute-Industry	Hitakey Infosys, Tiruchirappalli	2022-2023	VAC VAC	3 years	Introduction to Machine Learning Introduction to Robotics	<a href="https://igceng.com/naac/c3/3_5_1_2022-2023_ECE-1.pdf">https://igceng.com/naac/c3/3_5_1_2022-2023_ECE-1.pdf</a>
5	Institute-Industry	New propeller Technologies	2022-2023	internship	3 years	Robotics and Automation	<a href="https://igceng.com/naac/c3/3_5_1_2022-2023_ECE-2.pdf">https://igceng.com/naac/c3/3_5_1_2022-2023_ECE-2.pdf</a>
6	Institute-Industry	Enthu Technology and Solutions	2022-2023	FDP	3 years	Embedded Systems and IoT	<a href="https://igceng.com/naac/c3/3_5_1_2022-2023_ECE-3.pdf">https://igceng.com/naac/c3/3_5_1_2022-2023_ECE-3.pdf</a>
7	Institute-Industry	FACILITATION CENTER OF MSME	2022-2023	Campus to corporate Program	2 years	Campus to corporate Program	<a href="https://igceng.com/naac/c3/3_5_1_2022-2023_MECH-1.pdf">https://igceng.com/naac/c3/3_5_1_2022-2023_MECH-1.pdf</a>
8	Institute-Industry	Intellipaat Software Solutions Pvt Ltd, Bengaluru, 560 076	2022-2023	Research methodology, Value Added Course	3 years	Reasoning Era in Data Pipeline, Handling tools and technology for disaster	<a href="https://igceng.com/naac/c3/3_5_1_2022-2023_IT-1.pdf">https://igceng.com/naac/c3/3_5_1_2022-2023_IT-1.pdf</a>
9	Institute-Industry	Synergy School Of Business Skills Tab Complex, 1st Floor Contonment, Trichy Tamil Nadu, India- 620001	2022-2023	Value Added Courses	3 years	Value Added Courses - Excel For Business Analytics	<a href="https://igceng.com/naac/c3/3_5_1_2022-2023_MBA-1.pdf">https://igceng.com/naac/c3/3_5_1_2022-2023_MBA-1.pdf</a>
10	Institute-Industry	Bizme Aalytix functioning in Trichy, Karumandapam Trichy, Tamil Nadu, India- 620001	2022-2023	Value Added Courses	3 years	Value Added Courses - Structural Equation Model (SEM) and CFA - Average Variance Extracted (AVE) Using AMOS	<a href="https://igceng.com/naac/c3/3_5_1_2022-2023_MBA-2.pdf">https://igceng.com/naac/c3/3_5_1_2022-2023_MBA-2.pdf</a>
11	Institute-Industry	IZONE Innovation Technology, Trichy	2022-2023	Guest Lecture	3 years	Deep Learning	<a href="https://igceng.com/naac/c3/3_5_1_2022-2023_AIDS-1.pdf">https://igceng.com/naac/c3/3_5_1_2022-2023_AIDS-1.pdf</a>

ACADEMIC YEAR-2021-2022							
1	Institute-Industry	Sri Ranga Construction, Trichy.	2021	workshop	3 years	Research Techniques in Intelligent Automation in Civil Engineering	<a href="https://igceng.com/naac/c3/3_5_1_2021-2022_CIVIL-1.pdf">https://igceng.com/naac/c3/3_5_1_2021-2022_CIVIL-1.pdf</a>
2	Institute-Industry	Sri Enterprise Agro Industries Corporation	2021	Value Added Course	3 years	Vertical Farming	<a href="https://igceng.com/naac/c3/3_5_1_2021-2022_CIVIL-2.pdf">https://igceng.com/naac/c3/3_5_1_2021-2022_CIVIL-2.pdf</a>
3	Institute-Industry	Blue Fire Xperts Infotech OPC Pvt,Ltd, 156,Anand Nagar,1st Street,K.K Nagar(PO), Trichy-620021	2021-2022	Value Added Course	3 years	1. Value Added Course-Ethical Hacking	<a href="https://igceng.com/naac/c3/3_5_1_2021-2022_CSE-1.pdf">https://igceng.com/naac/c3/3_5_1_2021-2022_CSE-1.pdf</a>
4	Institute-Industry	Uniq Technologies, Chennai	2021-2022	Guest lecture	3 years	1. Computational Intelligence in Wireless Sensor Networks	<a href="https://igceng.com/naac/c3/3_5_1_2021-2022_CSE-2.pdf">https://igceng.com/naac/c3/3_5_1_2021-2022_CSE-2.pdf</a>
5	Institute-Industry	Startups Electric India Private Limited, Trichy	2021-2022	VAC , RM	3 years	Electrochemical Energy Storage, Need for R & D @Engineering Colleges	<a href="https://igceng.com/naac/c3/3_5_1_2021-2022_EEE-1.pdf">https://igceng.com/naac/c3/3_5_1_2021-2022_EEE-1.pdf</a>
6	Institute-Industry	Galwin Technology, Trichy	2021-2022	VAC	3 years	Lab View	<a href="https://igceng.com/naac/c3/3_5_1_2021-2022_ECE-1.pdf">https://igceng.com/naac/c3/3_5_1_2021-2022_ECE-1.pdf</a>
7	Institute-Industry	UNIQUE MEP	2021-2022	1.Value added COURSE	2 years	1. Value Added Course-Solid state Joining Technologies	<a href="https://igceng.com/naac/c3/3_5_1_2021-2022_MECH-1.pdf">https://igceng.com/naac/c3/3_5_1_2021-2022_MECH-1.pdf</a>
8	Institute-Industry	Verzo Edutech Limited	2021-2022	RM	3 years	Application of AI in Robot manipulation for Deep Visual Models	<a href="https://igceng.com/naac/c3/3_5_1_2021-2022_IT-1.pdf">https://igceng.com/naac/c3/3_5_1_2021-2022_IT-1.pdf</a>
9	Institute-Industry	NoviTech R&D Pvt Ltd, Trichy, 641 009	2021-2022	Value Added Course	3 years	Speech Recognition Technology in Natural Network	<a href="https://igceng.com/naac/c3/3_5_1_2021-2022_MBA-1.pdf">https://igceng.com/naac/c3/3_5_1_2021-2022_MBA-1.pdf</a>
ACADEMIC YEAR-2020-2021							
1	Institute-Industry	5D Architects And Construction	2020-2021	Value Added Course	3 years	1. Value Added Course-STAAD.PRO	<a href="https://igceng.com/naac/c3/3_5_1_2020-2021_CIVIL-1.pdf">https://igceng.com/naac/c3/3_5_1_2020-2021_CIVIL-1.pdf</a>
2	Institute-Industry	JD Soft 157/4,Vandalur-Kelambakkam Main Road,Kolapakkam,Chennai-600127	2020-2021	Value Added Course,Research Methodology	3 years	1. Research Methodology-Applications of Big Data Analytics in Healthcare	<a href="https://igceng.com/naac/c3/3_5_1_2020-2021_CSE-1.pdf">https://igceng.com/naac/c3/3_5_1_2020-2021_CSE-1.pdf</a>
3	Institute-Industry	Sri Sai Software , Trichy.	2020-2021	Value Added Course, RM seminar	3 YEARS	IoT- Raspberry and PI, Research Grants From Funding Agencies	<a href="https://igceng.com/naac/c3/3_5_1_2020-2021_EEE-1.pdf">https://igceng.com/naac/c3/3_5_1_2020-2021_EEE-1.pdf</a>
4	Institute-Industry	CAD CENTER TRICHY	2020-2021	1.value added course 2.Value added course	3 years	1.Application of NX CAD 2.Master cam	<a href="https://igceng.com/naac/c3/3_5_1_2020-2021_MECH-1.pdf">https://igceng.com/naac/c3/3_5_1_2020-2021_MECH-1.pdf</a>
5	Institute-Industry	Fantasy Solutions, Trichy, 620 001	2021	Value Added Course, Internship	3 years	Manipulation of Nanotechnology in Materials, Web Designing	<a href="https://igceng.com/naac/c3/3_5_1_2020-2021_IT-1.pdf">https://igceng.com/naac/c3/3_5_1_2020-2021_IT-1.pdf</a>
6	Institute-Industry	ToolFab Engineering Industries Private Limited No –E3-10, D.P Estate, Thuvakudi, Trichy,Tamil Nadu, India- 620015	2020-2021	Value Added Courses	3 years	Value Added Courses - Performance Management System With Case Studies	<a href="https://igceng.com/naac/c3/3_5_1_2020-2021_MBA-1.pdf">https://igceng.com/naac/c3/3_5_1_2020-2021_MBA-1.pdf</a>
ACADEMIC YEAR-2019-2020							
1	Institute-Industry	Veeranaar Construction, Pattukkottai.	2019-2020	Value Added Course	3 years	Safety in Construction	<a href="https://igceng.com/naac/c3/3_5_1_2019-2020_CIVIL-1.pdf">https://igceng.com/naac/c3/3_5_1_2019-2020_CIVIL-1.pdf</a>
2	Institute-Industry	Pantech Solutions Pvt. Ltd	2019-2020	Value Added Course	3 years	PIC Microcontroller and ARM Processor	<a href="https://igceng.com/naac/c3/3_5_1_2019-2020_ECE-1.pdf">https://igceng.com/naac/c3/3_5_1_2019-2020_ECE-1.pdf</a>

3	Institute-Industry	NIT Siemens	2019-2020	Seminar	3 years	External Aerodynamics	<a href="https://igceng.com/naac/c3/3_5_1_2019-2020_MECH-1.pdf">https://igceng.com/naac/c3/3_5_1_2019-2020_MECH-1.pdf</a>
4	Institute-Industry	White & Black Digital Marketing D46A, 6th Cross Rd E, Thillai Nagar East Extn., Thillai Nagar, Tiruchirappalli, Tamil Nadu 620018	2019-2020	Value Added Courses	3 years	Value Added Courses - Special Training on Digital Marketing	<a href="https://igceng.com/naac/c3/3_5_1_2019-2020_MBA-1.pdf">https://igceng.com/naac/c3/3_5_1_2019-2020_MBA-1.pdf</a>
<b>ACADEMIC YEAR-2018-2019</b>							
1	Institute-Industry	TM Design Technology, Coimbatore	2018-2019	1. VAC	3 years	1. REVIT Architecture	<a href="https://igceng.com/naac/c3/3_5_1_2018-2019_CIVIL-1.pdf">https://igceng.com/naac/c3/3_5_1_2018-2019_CIVIL-1.pdf</a>
2	Institute-Industry	Flink Technologies John Selvaraj Nagar, NBS Tower, Near Bus Stand, Kumbakonam-612001	2018-2019	Value Added Course, Research Methodology	3 years	1. Research Methodology-Recent Trends in Digital Technologies for Active Learning Processing 2. Research Methodology-Cross cutting Themes in research design for Technology 3. Value Added Course- C#	<a href="https://igceng.com/naac/c3/3_5_1_2018-2019_CSE-1.pdf">https://igceng.com/naac/c3/3_5_1_2018-2019_CSE-1.pdf</a>
3	Institute-Industry	Small Scale Industries Association	2018-2019	Workshop	Life time	CNC Machine using Arduino	<a href="https://igceng.com/naac/c3/3_5_1_2018-2019_MECH-1.pdf">https://igceng.com/naac/c3/3_5_1_2018-2019_MECH-1.pdf</a>
4	Institute-Industry	MARCELLO TECH, Trichy	2018	Value Added Course	3 years	Future AI & ML in Information Technology	<a href="https://igceng.com/naac/c3/3_5_1_2018-2019_IT-1.pdf">https://igceng.com/naac/c3/3_5_1_2018-2019_IT-1.pdf</a>
5	Institute-Industry	Trytax Professionals No –D118, First Floor, 9th Cross West, Thillainagar, Trichy – 620 017	2018-2019	Value Added Courses	3 years	Value Added Courses - Managerial Accounting Using Tally	<a href="https://igceng.com/naac/c3/3_5_1_2018-2019_MBA-1.pdf">https://igceng.com/naac/c3/3_5_1_2018-2019_MBA-1.pdf</a>