



# 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, 2(F) Status Institution by UGC



**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.

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**Dr. V.S. Thangarasu** M.E., M.B.A., Ph.D.  
PRINCIPAL



# Indra Ganesan

## COLLEGE OF ENGINEERING

Madurai Main Road, (Opp. SSB), Manikandam, Tiruchirappalli - 620 012  
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NAAC Accredited, 2(1) Status Institution by UGC



**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that, the following lists of activities were conducted based on the MoU signed between Indra Ganesan College of Engineering, Tiruchirappalli and Azatech Company, Tiruchirappalli.

S.No.	Name of the Activity	No. of Students / Staff Benefited	Date of Activity
<u>1</u>	Research Methodology Seminar	93	01.03.2023

**MoU Validity Period: 16.07.2021 to 15.07.2023**

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

Signature of the MoU signatory

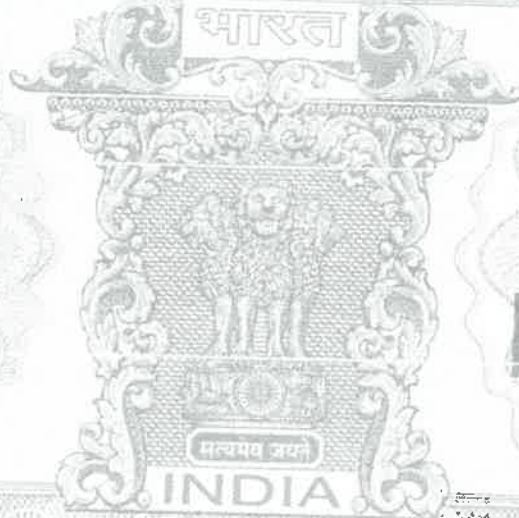


Signature of the Principal with Seal

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

भारतीय गैर न्यायिक

पचास  
रुपये  
₹.50



FIFTY  
RUPEES  
Rs.50

INDIA NON JUDICIAL

தமிழ்நாடு தமிழ்நாடு TAMILNADU

12 JUL 2021

BC 095589

S. ராஜ்குமார்  
மு.நா. வி  
L.No: 6/2000  
முக. அ. சி. சி. சி.



Memorandum of Understanding (MoU)

between

**Azatech Company**

Hanifa Colony, Sangillyandapuram,  
Tiruchirappalli, Tamil Nadu 620020

and

**Indra Ganesan College of Engineering**

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

Accredited by NAAC with B+ Grade

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli-620 012



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

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

12/2021  
IGCE

J. V. S. THANGARAJU, M.E., MBA., Ph.D.  
PRINCIPAL  
INDRA GANESAN COLLEGE OF ENGINEERING  
MANIKANDAM  
TIRUCHIRAPPALLI-620 012

The Agreement is executed on this 16<sup>th</sup> July, 2021 (Effective Date) between:

Azatech, Hanifa Colony, Sangillyandapuram, Tiruchirappalli, Tamil Nadu 620020,  
(which expression shall include its successors and assigns) of the first part:

and


Indra Ganesan college of Engineering, Trichy- 620 012 herein after called the  
"IGCE", having its permanent campus and office at Madurai Main Road, NH-45B,  
Manikandam, Tiruchirappalli -- 620012, (which expression shall unless repugnant to  
the context or meaning thereof be deemed to mean and include its successors and  
assigns) of the second part

Whereas:

• **Details of Azatech**

- Azatech is a provider of IT consulting and software development services. We develop custom software that includes enterprise systems, mobile applications, and web based solutions. Our innovative products help companies and other organizations, large and small, to improve business performance and to deliver services efficiently.
- Azatech provides knowledge and expertise to solve problems at each stage of application development. We can develop applications for you or supplement your existing team as needed. Our developers are prepared to deliver applications that range in size and complexity. We deliver small static content sites, complex, enterprise systems and everything in between.



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

  
16/7/2021  
Dr. V.S. THANGARASU, M.E., M.B.A., Ph.D.  
PRINCIPAL  
INDRA GANESAN COLLEGE OF ENGINEERING  
MANIKANDAM  
TIRUCHIRAPPALLI-620 012

- **Details of Indra Ganesan college of Engineering**

- The college established in the year 2008 by the Indra Ganesan Educational and Charitable Trust with a noble vision to provide higher education in the field of Engineering for our students' community, especially from rural areas.
- The College is offering Bachelor Engineering Degree Programme (B.E./B.Tech.) in Agriculture Engineering (AE), Artificial Intelligence and Data Science (AI&DS) Civil Engineering (CE), Computer Science and Engineering (CSE), Electronics and Communication Engineering (ECE), Electrical and Electronics Engineering (EEE), Mechanical Engineering and Information Technology.
- The College is also offering Post Graduate Degree Programme in M.E. Computer Science and Engineering, M.E. - VLSI Design and MBA - Management Studies.
- The college is experiencing vertical growth every year in terms of academic results and job placements which has earned good reputation from the students and parents of the College.
- The College is well equipped with labs prescribed by Anna University and all other facilities required for peaceful learning environment for the students.
- The College is maintaining a good retention of faculty members which also enhances proper functioning of the academic and administrative system.
- Apart from academic concentration, the College is concentrating on sports and discipline which is felt very much essential in contributing good citizens to the society to build a strong nation as dreamt by our former President Dr.APJ Abdul Kalam.



  
**DR. G. B. BALAKRISHNAN, M.E., Ph.D.,**  
 Principal  
 Indra Ganesan College of Engineering  
 Page 3 of 6  
 and Vailey, Madurai Manikandam  
 Manikandam, Tiruchirappalli - 620 012.

16/7/2021

**DR. V. S. THIRUGANESAN, M.E., Ph.D.,**  
 PRINCIPAL  
 INDRA GANESAN COLLEGE OF ENGINEERING  
 MANIKANDAM  
 TIRUCHIRAPPALLI - 620 012

## Vision- IGCE

To evolve as a center of excellence in Engineering, Technology and Management with distinctive research capabilities and to transform the students into knowledgeable, skilled professionals with high ethical values to cater the needs of the society.

## Mission-IGCE


- To impart practical example based teaching
- To develop Engineering and Communication skills
- To impart the importance of lifelong learning
- To develop positive attitude


## The Agreement:

The Azatech and IGCE enter into the following agreements:

- Azatech, Trichy offers Internship/In-plant training for reasonable number of students based on the demand.
- Azatech, Trichy offers Workshops, Seminars and Value added courses for the student on recent trends in Computer Science & Engineering and Information Technology.
- Azatech, Trichy provides technical support for industry based projects for final year students.
- Azatech, Trichy shall provide support for Faculty development programs/Special Lectures in the emerging areas on mutually convenient dates.
- IGCE shall provide infrastructure facilities, and technical support as required by Azatech.
- Both parties shall maintain confidentiality about any information, course materials, plans, discussion, strategies or any material, which are deemed to be confidential.
- The implementation of specific activities will be separately agreed between both organizations on need basis



  
**Dr. G. Balakrishnan, M.E., Ph.D.,**  
Page 4 of Principal  
Indra Ganesan College of Engineering  
IG Valley, Madurai Main Road  
Manikandam, Trichy-620 012.

  
16/7/2021  
**Dr. V. Srinivasan, M.E., Ph.D.,**  
Principal  
INDRA GANESAN COLLEGE OF ENGINEERING  
MANIKANDAM  
TIRUCHIRAPPALLI-620 012

- Other terms and conditions which are not provided in this Agreement will be deliberated and agreed upon by the organizations hereto.
- This Agreement is established in English language and is valid from the date of signing by the representatives of the organizations. The organizations hereto have executed this Agreement in duplicate, and each organization shall keep one copy of the originals.
- This agreement shall be governed by and construed in accordance with the laws of India.
- The two parties will consult each other and attempt to resolve disputes or misunderstandings that arise in the administration of this agreement informally.
- This agreement shall be valid for a period of three years from the date both signatures are affixed to this document or before if terminated by mutual agreement of both. This agreement may be terminated by either party after one hundred and twenty (120) days following receipt of a written notification of intent to terminate by the other party.
- If a proposal to renew this agreement is not presented before the end validity period, it will be terminated automatically at the end of three years.


**Arbitration:**

- This MoU is executed in duplicate with each copy being an official version of the agreement and having equal legal validity.
- In the event of any dispute or difference between the parties hereto, such disputes or differences shall be resolved amicably by the mutual discussion of the heads of the two organizations.

By signing below, the parties, acting by their duly authorized officers, have caused this Memorandum of understanding to be executed, effective as of the day, month and year mentioned in the beginning of the MoU.




  
**Dr. G. Balakrishnan, M.E., Ph.D.,**  
 Page 5 of 5 Principal  
 Indra Ganesan College of Engineering  
 IG Valley, Madurai Main Road  
 Manikandam, Trichy-620 012.

  
 16/7/2021  
**Dr. V.S. Thangaraj, M.E., MBA, Ph.D.,**  
 IGCE  
 Indra Ganesan College of Engineering  
 Manikandam  
 Tiruchirappalli-620 012

Signed and delivered on behalf of by

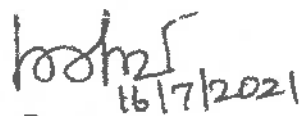
Mr. Asmaan Managing Director Azatech, Trichy, in the presence of Mr.B.Natarajan  
Project Executive Azatech.

For and on behalf of Azatech  
Company

  
Name: Mr. Asmaan  
Managing Director,  
Azatech, Trichy.

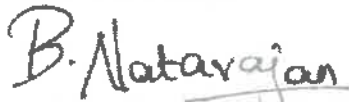


For and on behalf of Indra Ganesan college  
of Engineering

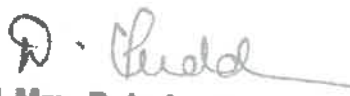
  
Name: Dr. V.S.Thangarasu  
Principal,  
Indra Ganesan College of  
Engineering, Trichy



In presence of

  
1. Mr.B.Natarajan  
Project Executive  
Azatech, Trichy

In presence of

  
1. Mrs. D. Indra Devi  
Head of the Department,  
Department of Computer Science  
and Engineering,  
IGCE, Trichy -12




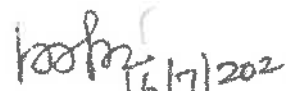
2. Mrs. Emmi Priscilla  
Human Resource Officer,  
Azatech, Trichy



2. Mrs. S. Hussain Bibi  
Assistant Professor,  
Department of Computer Science  
and Engineering  
IGCE, Trichy -12

  
Azatech

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

  
Dr. V.S. THANGARASU, M.E., M.B.A., Ph.D.  
PRINCIPAL  
INDRA GANESAN COLLEGE OF ENGINEERING  
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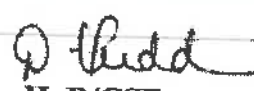



### Department of Computer Science & Engineering

Academic Year 2022-2023 – Even Semester

#### REPORT OF THE PROGRAM

#### Research Methodology Seminar On

Report on One day Research Methodology Seminar			
Title:	"Trial and Error method for optimal functions using machine learning"		
Resource Person:	Mr. Aazman, Project Manager, Azatech Trichy	Mr. T.Samy Trainer Azatech Trichy	
Date of conduct from:	1.03.2023	To:	-
		Duration:	1 Day
Organized Department:	Computer Science and Engineering		
Participant Year:	B.E-II, III & IV, B.Tech AI&DS- II, M.E-I,II	No. of Students Registered:	100
Venue:	SD Lab, NETWORK LAB		
Outcome of the RM :At the end of the Course, Students can able to			
<ul style="list-style-type: none"> <li>• Learn the basics of learning problems with hypothesis and version spaces.</li> <li>• Characterize the machine learning algorithms as supervised learning and unsupervised learning and Apply and analyze the various algorithms of supervised and unsupervised learning</li> <li>• Know the fundamental concepts of Genetic Algorithm and Analyze and design the genetic algorithms for optimization engineering problems</li> <li>• Learn the concepts in Bayesian analysis from probability models and methods</li> <li>• Know the concept of neural networks for learning linear and non-linear activation functions</li> </ul>			
Glimpse from the event.			
			
		<b>Dr. G. Balakrishnan, M.E., Ph.D.,</b> Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.	
 RM Coordinator	 HoD/CSE	 Principal	