



**TO WHOMSOEVER IT MAY CONCERN**

This is certify that,the following lists of activities were conducted based on the MoU signed between Indra Ganesan College of Engineering,Tiruchirappali and NIT-SIEMENS,Tiruchirappali

S.No	Name of the Activity	No of Students/Staff Benifited	Date of Activity
1	External Aerodynamics Simulations	65	01.06.2019



**Dr.S.BHARATHI RAJA**  
PRINCIPAL

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



தமிழ்நாடு தமில்நாடு TAMIL NADU

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18 NOV 2019

Memorandum of Understanding for  
Skill Development and Training

S. Per  
S. சாந்தகுமார்  
பொ.பி. வி  
L.No 6/2000  
மே.பி. த.செ.நாடு

BETWEEN

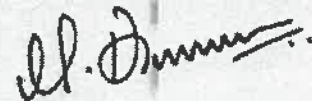
**Siemens Centre of Excellence  
in Manufacturing**

**National Institute of Technology  
TIRUCHIRAPPALLI**

AND

**Indra Ganesan College of Engineering**


Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai  
Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli-12

  
Siemens CoE

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IGCE

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



The Agreement is executed on this 09<sup>th</sup>December, 2019 (Effective Date) by and between:

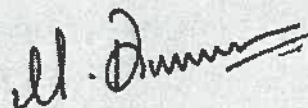
Siemens Centre of Excellence in Manufacturing hereinafter called the "Siemens CoE or CoE" functioning in National Institute of Technology, Tiruchirappalli, a premier academic Institution of International repute incorporated under National Institute of Technology Act, 2007 having its permanent campus and office at Tanjore main road, National Highway 67, near BHEL, Tiruchirappalli, Tamilnadu 620015 (hereafter referred to as 'NITTrichy', which expression shall include its successors and assigns) of the first part;

And


Indra Ganesan college of Engineering, Trichy-12 herein after called the "IGCE" (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:**

1. The National Institute of Technology (formerly known as Regional Engineering College) Tiruchirappalli, situated in the heart of Tamil Nadu on the banks of river Cauvery, was started as a joint and co-operative venture of the Government of India and the Government of Tamil Nadu in 1964 with a view to catering to the needs of man-power in technology for the country. The college has been conferred with autonomy in financial and administrative matters to achieve rapid development. Because of this rich experience, this institution was granted Deemed University Status with the approval of the UGC/AICTE and Govt. of India in the year 2003 and renamed as National Institute of Technology, thereafter.
2. Siemens CoE established in 2018 at NIT, Trichy premises with 90% investment from Siemens and 10% investment from NIT, Trichy. The CoE operates with a primary objective of creating a robust technical education eco-system through its experience in industrial products and services. This Siemens CoE is intended to bridge today's gap between industry requirements and technical education, and provide solution that makes technical institutes be more aligned with industry needs and make engineering graduate students, industry compliant / on par with industry expectations.

  
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3. Siemens CoE has 12 sophisticated Laboratories for Design and Validation, Advanced Manufacturing, Test and Optimization, Automation, Electrical and Energy savings, Process Instrumentation, Mechatronics, CNC Machines, CNC Controller, Robotics, Rapid Prototyping and Internet of Things through which different services are offered to Academic Institutions and Industries.

**4. Vision – Siemens CoE**

a. To provide skill excellence through Training, R&D and Consultancy for robust Industry relevant technical education eco-system.

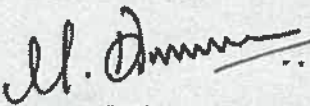
**5. Mission – Siemens CoE**

- a. To offer certified skill development programmes for enhancing placement opportunities
- b. To promote industry-academia partnership by engaging in extensive consultancy services
- c. To engage in Research and Development for societal benefits and uplift
- d. To strategically align with Institute's Vision and Mission for building the brand image of NITT

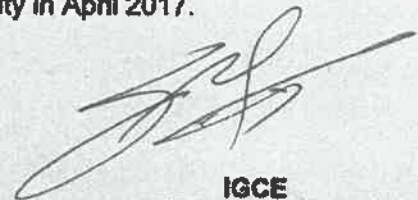
**6. Details of Indra Ganesan college of Engineering**


**General information about the college**

- a. 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.
- b. The College is offering Bachelor Engineering Degree Programme (B.E./B.Tech.) in Civil Engineering, Computer Science and Engineering (CSE), Electronics and Communication Engineering (ECE), Electrical and Electronics Engineering (EEE), Mechanical Engineering and Information Technology.
- c. The College is also offering Post Graduate Degree programme in M.E. Computer Science and Engineering, M.E. – VLSI Design and MBA – Management Studies.
- d. The College is recognized as "Research Centre" for the department of Computer Science and Engineering from April 2016 onwards.
- e. The College has secured 39<sup>th</sup> rank out of 570 Engineering Colleges in Tamil Nadu under Anna University, Chennai. This is based on the academic performance list released by Anna University in April 2017.

  
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- f. 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.
- g. The College is well equipped with labs prescribed by Anna University and all other facilities required for peaceful learning environment for the students.
- h. The College is maintaining a good retention of faculty members which also enhances proper functioning of the academic and administrative system.
- i. 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.

#### Vision- IGCE

- ✓ To facilitate our students to be successful in their career
- ✓ To facilitate our students to be valuable to the society
- ✓ To facilitate our students to adapt to technological changes
- ✓ To facilitate our students to be good

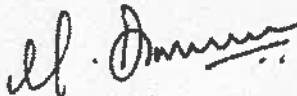
#### Mission-IGCE

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

#### Quality policy-IGCE


We, at IGCE are committed to the society in making our students to be a responsible citizen with sound Engineering knowledge, professional ethics and good discipline to be worth in contributing our nation's development.

The Siemens CoE, National institute of technology, Tiruchirapalli, India enter into the following agreement to offer skill development, training and other related services to IGCE.

  
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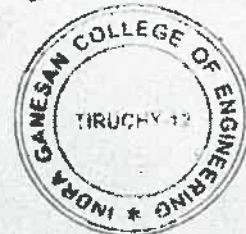
1. Siemens CoE offers various skill development courses across different disciplines. IGCE committed /commits to send 50 number of students /faculty every year for such courses. The timing /duration of the courses shall be arrived on mutually agreed dates. The CoE offers 20-40% discount on the regular advertised course fee depending on the demand.
2. A student /faculty who has completed any CoE offered courses will be given 10 hours of free Lab usage time after the course within one-year duration. The timing will be decided by the CoE based on the availability.
3. Siemens CoE offers the resources for student projects on chargeable basis. It is the responsibility of the faculty mentor from IGCE to monitor the progress. The CoE shall not offer any certification for such usage but shall provide an attendance certificate.
4. Siemens CoE offers Internships to students. The CoE can accommodate a reasonable number of students depending on the demand.
5. The faculty of IGCE shall submit funding/consultancy proposals quoting the Siemens CoE resources. In such cases, a NITT faculty will be the Co-PI and budgeting need to be arrived through mutual discussion before submission.
6. Siemens CoE periodically conducts workshops/symposiums/conferences etc.. For such events, any participant from IGCE will get 25% discount on the Registration fee.
7. IGCE shall organize events such as workshops /symposiums /conferences jointly with Siemens CoE. In such cases, the financial implications need to be discussed and to be approved by competent authorities before the event.
8. Siemens CoE will not be responsible for safety of the students outside the NITT premises. IGCE should instruct their students clearly on the safety and precautionary measures.
9. Siemens CoE will not be responsible for loss /theft or damage of any of the student's belongings. IGCE should instruct their students clearly on the precautionary measures.

  
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10. The implementation of specific activities will be separately agreed between both institutions on need basis.
11. Other terms and conditions which are not provided in this Agreement will be deliberated and agreed upon by the institutions hereto.
12. This Agreement is established in English language and is valid from the date of signing by the representatives of the institutions. The institutions hereto have executed this Agreement in duplicate, and each institution shall keep one copy of the originals.
13. This agreement shall be governed by and construed in accordance with the laws of India.
14. The two parties will consult each other and attempt to resolve disputes or misunderstandings that arise in the administration of this agreement informally.
15. 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.
16. 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.
17. This is a non-exclusive MoU


**SIGNED IN DUPLICATE**

This MOU is executed in duplicate with each copy being an official version of the agreement and having equal legal validity.

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 and year first above written.

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



Signed and delivered on behalf of by

Dr.-Ing. M. Duraiselvam, Head, Siemens CoE, National Institute of Technology, Tiruchirappalli, in the presence of Dr. M. Umapathy, Dean (Research and Consultancy), National Institute of Technology, Tiruchirappalli.

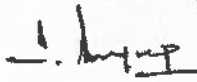
For and on behalf of Siemens CoE



Name: Dr.-Ing. M. Duraiselvam  
Head, Siemens CoE  
NIT Tiruchirappalli

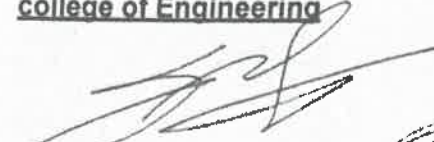


In presence of



1. Dr. M. Umapathy,  
Dean (Research and Consultancy)

For and on behalf of Indra Ganesan college of Engineering



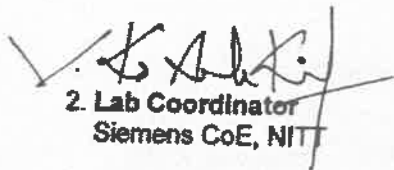
Name: Dr. S. Bharathi Raja  
Principal,  
Indra Ganesan College of  
Engineering, Trichy



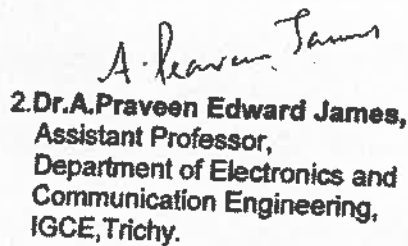
In presence of



1. Dr. R. Joseph Raviselvan,  
Professor,  
Department of Mechanical  
Engineering,  
IGCE, Trichy.



2. Lab Coordinator  
Siemens CoE, NIT



2. Dr. A. Praveen Edward James,  
Assistant Professor,  
Department of Electronics and  
Communication Engineering,  
IGCE, Trichy.



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# Indra Ganesan

**COLLEGE OF ENGINEERING**

Madurai Main Road (NH-45B), Manikandam, Tiruchirapalli- 620 012  
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

## Report on Value Added Course

Title:	External Aerodynamics Simulations		
Resource Person:	Mr. Suresh, Trainer. NIT Siemens, Trichy	Mr. Vijay Trainer NIT Siemens, Trichy	
Date of conduct from :	01.06.2020	To: 05.06.2020	Duration: 30 Hours
Organized Department :	MECHANICAL ENGINEERING		
Participant Year:	2,3	No. of Students Registered :	65
Venue:	Mechanical Seminar hall		

### **Outcome of Value Added Course (VAC): At the end of the Course, Students can able to**

- Know to explain the design working in the automotive field.
- Know how to illustrated explanations of the physical principles involved
- Students are expected to learn and practice the Vehicle Aerodynamic applications.
- Know to recall Aerodynamic improvements to an existing design.
- They receive required training on Thermal Management, Aeroacoustics, Contamination, and Climate Comfort.


### **Assessment Process**

- Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score =  $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$

  
VAC Coordinator

  
HoD/MECH

  
Principal

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