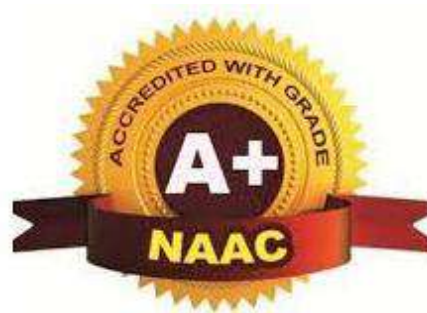


SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)

Accredited by NBA & NAAC A+



Venkateswara Nagar, Panjappur,

Tiruchirappalli - 620 012,

Tamil Nadu, India.

www.saranathan.ac.in

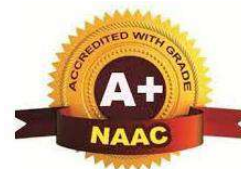


3.5.2 Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the year 2021-2022

SARANATHAN COLLEGE OF ENGINEERING

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Venkateswara Nagar, Panjappur, Tiruchirappalli - 620 012, Tamil Nadu.



INDEX

CRITERION: 3.5.2

*Number of Collaborative activities for Research, Faculty exchange,
Student exchange/ Internship during the year*

2021 - 2022

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Saranathan College of Engineering
Tiruchirappalli - 620 012

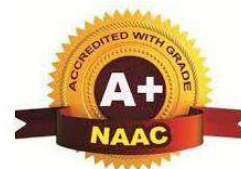


Civil Engineering

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai-25)

Venkateswara Nagar, Panjappur, Tiruchirappalli - 620 012, Tamil Nadu.

**Department of Civil Engineering**

S. No.	MoU	Year of signing MoU	Duration
1.	Irrigation Management Training Institute Main Road, Thuvakudi, Tiruchirappalli - 620 015, Tamil Nadu, India.	2018-2019	Life Membership
2.	Indian Geo Technical Society, Tiruchirappalli, Tamil Nadu, India.	2018-2019	Life Membership

**Irrigation Management Training
Institute**

**Main Road, Thuvakudi,
Tiruchirappalli - 620 015
Tamil Nadu, India.**



தமிழ்நாடு தமில்நாடு TAMIL NADU

21602 சமீபத்திலே தொழில்
கலிவார, திருச்சி

19 SEP 2018

58AB 136094

D. DHANASEKARAN S.V.
Munef Court, Trichy.
License No 16/2000

Memorandum of Understanding

This Memorandum of Understanding is entered into on this 25th of September 2018

Between

Irrigation Management Training Institute, (Water Resource Department, P.W.D, Government of Tamilnadu) represented by **Chief Engineer PWD & Director, IMTI**, repugnant to the context or meaning there of will include its successors-in-interest and assigns on the first part.

And

The **Saranathan College of Engineering** located at Tiruchirappalli District, Tamilnadu, India represented by **The Principal**, Saranathan College of Engineering, Tiruchirappalli hereinafter referred to as the SCE (in short), which unless repugnant to the context or meaning thereof, will include its successors-in-interest and assigns on the second part.

This MoU is signed and extended with the objectives of ushering and strengthening better industry-academic linkages for mutual benefit. The two parties will jointly work towards the common cause with definite vision and missions of long and short-term perspectives.

CLAUSES OF MoU

1. **Relationships:** *Both the parties will strive to build long term relationship by involving one another as the guest of honours at all functions like technical seminars, symposiums, and Cultural and Promotional events.*
2. **Research:** *Primary purpose of this MoU itself is to involve the advanced research at their own areas of operation of both parties. Accordingly any supports by way Technical Consultancy (Expertise) literature supports (library, advanced software's in computer labs) infrastructure supports (Laboratories and workshops) and other logical supports may be availed to the extend of maintaining secrecy and intellectual property rights of both parties. Either party can opt for augmentations of any facility with mutual consent on investments and utilization. Subsidiary agreements may be made wherever required. Saranathan College of Engineering shall provide all infrastructure facilities, labs and workshops. However the cost involved if any on consumables and labours in conducting experiments shall be charged at actual mutually agreed in advanced. Any significant outcome of any joint research or development activities, arising out of project works shall have equal right to patent the development with due acknowledgement of other party's contribution.*
3. **Consultancy:** *The dedicated faculties on both sides (party) shall act as the consultant / outsourcer and Technical supporter to one another at all technical, administrative, management and R & D areas. The knowledge sharing by consultancy of the expert members are available at free of cost at the regular college/ office functioning hours. Consultancy of the college / office hours if any may be charged accordingly.*
4. **Human Resource & Training:** *Human resources at both sides shall be strengthened by way of conducting Workshops/Lectures/Study camps at regular interval. Both parties shall organize regular / routine training programme to various levels of Technical and managerial manpower of all discipline at a very nominal costs at their respective premises.*

5. **Student Project:** IMTI shall freely engage the student manpower for any of their R & D activities at their works under various schemes like in-plant training minor/major projects etc to benefits both sides equally. IMTI will be the permanent guests of honour of the Saranathan College of Engineering at all institutional programs like the training technical seminars, cultures and other celebrations.

Disclaimer: This MoU does not compel or force any party either fully or partly to perform a function or fulfill any commitment agreed upon on best interests. All that agreements made between the parties are only obligatory and not in any way mandatory. It is further made abundantly clear that no third party mediation or arbitration is earnest or warranted. Both the parties shall however meet periodically once in a year alternatively at their respective premises to review the MoU and modify the scope of works if any, depending on the special demands and needs, arises then and there.

Dated on this 25th of September 2018 we sign

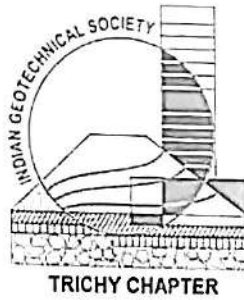

Signatory of IMTI
DIRECTOR GENERAL
Irrigation Management Training
Institute, Thuvakudi, Trichy - 620 015.




Signatory of Saranathan College of Engineering
PRINCIPAL
Saranathan College of Engineering
TRICHY - 12.



Indian Geo Technical Society
Tiruchirappalli,
Tamil Nadu, India.



IGSTRYIM : 005

INDIAN GEOTECHNICAL SOCIETY TRICHY CHAPTER

This is to certify that

**SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI - 620 012**

was duly admitted by the Executive Committee

as

INSTITUTIONAL MEMBER

**of the society with all the privileges granted by the constitution
and bye-laws**

2019


Secretary


Chairman

Saranathan College of Engineering
Tiruchirappalli - 620 012

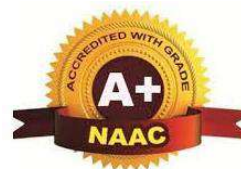
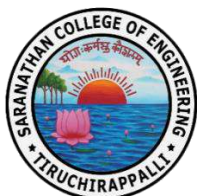


Computer Science and Engineering
&
Information Technology

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai-25)

Venkateswara Nagar, Panjappur, Tiruchirappalli - 620 012, Tamil Nadu.



**Department of Computer Science and Engineering
&
Department of Information Technology**

S. No.	MoU	Year of signing MoU	Duration
1.	Sorting Hat Technologies Private Limited, Bangalore - 560 071, Karnataka, India. (Codechef)	2021-2022	1 Year
2.	InLustro Flat No. 102, Ceebros Arcadia, 811, PH Road, Kilpauk, Chennai - 600 010, Tamil Nadu, India.	2020-2021	Life Membership

**Sorting Hat Technologies
Private Limited
Bangalore - 560 071,
Karnataka, India.**

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (the **"MOU"**) is entered into on 31st day of January 2022 (the **"Effective Date"**), by and between:

Sorting Hat Technologies Private Limited, a private company incorporated under the provisions of the Companies Act, 2013 bearing CIN U72200KA2015PTC082063 and having its registered office at Maruti Infotech Centre, 3rd Floor, A-Block, Domlur, Koramangala Inner Ring Road, Bangalore- 560 071, Karnataka, India (hereinafter referred to as **"CodeChef"**, which expression shall, unless repugnant to the meaning or context thereof, be deemed to include its legal representatives and permitted assigns) of the **FIRST PART**;

AND

Saranathan College of Engineering, with its campus at Venkateswara Nagar, Panjappur, Tiruchirappalli - 620012, (hereinafter referred to as **"College"**, which expression shall, unless repugnant to the meaning or context thereof, be deemed to include its legal representatives and permitted assigns) of the **SECOND PART**;

The CodeChef and the College shall thereafter, as the context may require, individually be referred to as a **"Party"** and collectively be referred to as the **"Parties"**.

WHEREAS:

- i. The College is engaged in education to students across various domains.
- ii. The Parties wish to enter into a collaboration wherein CodeChef shall provide one-year free access to its platform, to the students and faculty of the College.
- iii. The College has represented and warranted to CodeChef that it has relevant authority, permit and licenses to fulfill its obligations under this MoU and based on the said representation and warranties, CodeChef has agreed to enter into this MoU with the College on a non-exclusive basis and the Parties have agreed to fulfill their obligations under this MoU.


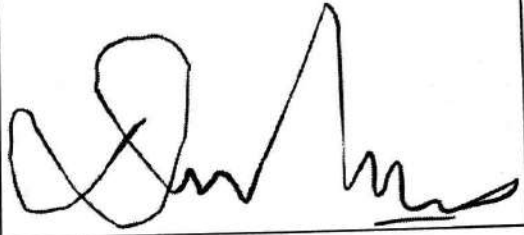
NOW THEREFORE, in consideration of the mutual promises and covenants contained herein, the Parties agree as follows

1. The College shall enroll approximately 100 students with CodeChef.
 - a. The College shall share the student details in a timely basis and in one-go by sending CodeChef a spreadsheet containing student's account creation details such as - Name, Roll number (optional), email id, College name (preferred way of referring the College), and preferred pattern for creating their usernames on CodeChef.
 - b. For those students whose accounts are already on CodeChef, the College shall share their existing CodeChef usernames as well in the spreadsheet.

- c. By using the information in the spreadsheet, CodeChef shall create bulk account/profiles of students and share the same with the College.
2. CodeChef shall conduct an Orientation session for faculty and students of the College on a time mutually decided by both the parties.
3. The College shall review the program curriculum shared by CodeChef and map it to its existing semester/curriculum.
 - a. The program curriculum is given as Annexure 2 to this MOU.
 - b. In case of changes, CodeChef and College shall discuss and finalize the same before commencement of the program.
 - c. CodeChef shall organize meeting(s) with the faculty of the College to understand the curriculum in depth, and select problems per topic.
4. Periodic practice sessions & Assessment-based tests (for grading) shall be created by CodeChef for the students and shared regularly with the College. The program structure is given as Annexure 1 to this MOU.
5. Monthly report shall be sent to the College about the students' overall performance on CodeChef.
6. CodeChef has no liability whatsoever other than that of providing access to the platform for one year and creating practice & assessment-based tests.
7. College and CodeChef agree that the information shared during the term of this MoU is confidential in nature and shall not disclose it with any third-party without prior written consent.
8. College hereby agrees to indemnify and save harmless CodeChef including, where applicable, its affiliates, directors, officers, employees and agents (each such party being an "Indemnified Party") harmless from and against and agree to be liable for any and all losses, claims, actions, suits, proceedings, damages, liabilities or expenses of whatever nature or kind, incurred by the Indemnified Party that arises out of:
 - a) breach of any of its obligations, covenants or representations and warranties under this Agreement; or
 - b) Violation of any applicable laws; or
 - c) Infringement of any third-party intellectual property rights;
9. This MoU shall be valid for a period of one year from Effective Date.
10. This MoU may be terminated at any time by either Party upon fifteen (15) days written notice to the other party.
11. This MoU shall be governed by the laws of India. The courts of India shall have exclusive jurisdiction.

12. In the event that the Parties desire to change, add, or otherwise modify any terms, they shall do so in writing to be signed by both parties.

The Parties agree to the terms and conditions set forth above as demonstrated by their signatures as follows:

Signature		
Name	Tony Mathew	Dr. D. Valavan
Title	Authorized Signatory	Principal
	For, CodeChef	For, College

InLustro

**Flat No. 102, Ceebros Arcadia,
811, PH Road, Kilpauk,
Chennai - 600 010,
Tamil Nadu, India.**

MEMORANDUM OF UNDERSTANDING FOR COLLABORATION

BETWEEN

INLUSTRO

&

SARANATHAN Saranathan College of Engineering OF ENGINEERING,
TRICHY

This agreement is signed on 19.11.2020 by InLustro, having office at Flat No 102, Ceebros Arcadia, 811 PH Road, Kilpauk, Chennai - 600010, and Saranathan College of Engineering located at Venkateswara Nagar, Trichy-Madurai Main Road (NH 45 B) i Pudhur(Post), Panjappur, Thiruchirappalli - 620012

Definition of the Parties of the Agreement:

- InLustro is an edutech company that helps bridge the skill gap in today's graduates by training them in contemporary technologies such as Node.js, VCS, Native Mobile App, OpenCV, React, Angular, Python and so on. By supplementing the university curriculum with hands-on learning exercises and real life projects, students will be employment-ready by the time they graduate.
- Saranathan College of Engineering is engaged in academic activities in various disciplines in Engineering, Technology, Sciences and related fields.

Our Offerings:

InLustro guarantees that we will provide the following offerings, services & opportunities for all the students enrolled in our platform:

- A range of learning materials in the form videos, digital course materials, boilerplate project templates and so on to learn the latest programming languages, algorithms, data structures and modern programming frameworks



- An online portal for students to access the above mentioned course materials anywhere & anytime
- Offer a virtual internship every semester for all the qualified students to work on a real life project, which is going to play a big role for students to be prepared for interviews and real life jobs.
- An opportunity for students to acquire and sharpen crucial soft skills like communication, team building & leadership, as they work in teams to complete their team-based projects
- Live mentorship session to students for guiding them through their course work, at regular intervals
- A platform for the students to continuously engage, collaborate and work with their peers.
- Support final year students, with their project work for the final semester. With the help of dedicated college staff, we will help them select a topic, suggest to them the technologies to be used and the best way of presenting the same. Students will implement the project by themselves from scratch, with relevant guidance from InLustro. This is to ensure that the final year projects bring out the originality and creativity of the students, as a means of encouraging them to push themselves to pursue challenging problems.
- A report about the progress of each student, about their performance and their skill sets acquired through our program
- Excellent references & placement opportunities for top performers in various skill & technology aspect – Mobile Development, Testing, Web Development, Server side scripting, Product & UI Design
- Speaker Series given by Industry experts to widen the students' perspectives and offer them corporate exposure

Expectations from the College:

In order for this endeavour to succeed we need to base it on the foundation of strong synergy between Saranathan and our platform. We expect the following cooperation & assurance from the College management in order to ensure that our program remains fruitful for all the stakeholders involved.



- Students should be able to allocate at least 3 hours every week during their college hours to work on our courses
- Allocation of an adequate number of staff for each class to supervise the students while they work on our platform. These teachers will also have access to our support team for assistance.
- Encourage and drive the students to work on our courses & Virtual internships during off college hours
- Students can avail access to systems connected to the internet through the college lab while in college and through their laptop while at home in order to access and perform the prescribed learning activities and assignments.
- Assist our team when we conduct bi-annual demo days and other on campus events to boost student engagement

Project Based learning:

■ Our teaching methodology involves the employment of hands-on learning techniques, predominantly project-based learning, wherein we expect students to work both individually and in teams of predetermined sizes on various real life assignments with relevance to today's business environment

■ There will be three types of projects :

■ **Individual Projects:** These projects include brief learning assignments / competitive programming that a student must complete while studying different course modules. For ex. there will be a course project on say React when he/she is studying that topic on our platform.

■ **Team Projects:** These projects include complex multi-person projects wherein students will be asked to design and build an entire platform/ software offering. They will be required to draw up necessary documentation to support their work and make formal presentations of their work. They will be trained in using Version Control



Systems, Project Tracking Systems and Automated Building, Testing & Deployment frameworks in order to simulate professional working conditions.

■ **Virtual Internships:** Refer to the next section

■ Every semester there will be multiple individual projects (3 or 4) and a single team based project for all students on the platform. The students' performance will be graded and used to assess the students' progress on the platform.

■ There will be a mentoring schedule created for group projects and virtual internships wherein our platform mentors(working for InLustro) will guide students at regular intervals through online sessions.

■ For individual projects we will provide adequate guidance through the platform

■ We are also planning to set up an innovation hub at Saranathan over the next few months wherein 4th year students will be given the guidance and mentorship to work on their own startup ideas with mentorship from industry leads and experts. Students of exceptional caliber from the second and third years will also be picked to work in a team led by 4th year students. This however will not to be rolled out in the near future. It is in the pipeline for the subsequent rollouts(depending on willingness and cooperation from the institution) .

Virtual Internships:

These will be offered only to select students unlike the earlier two. They are real life projects proposed by different firms.

▪ Students will be asked to sign an official contract with these firms and each student will be assigned a mentor who will be a faculty from college who will take personal responsibility for guiding and motivating the student to complete the professional undertaking.

▪ Students will be offered Internship certificates upon successful completion. Stipend structure will vary depending on the assignments undertaken and the company that rolls out the internship offer.



▪ The entire internship will be online and will not involve travelling to the firm's actual location.

▪ Students of high caliber and demonstrable commitment will be handpicked by Inlustro in collaboration with the faculty. This virtual internship offer shall be given only to such students keeping in mind the nature of the accountability involved in such projects.

VALIDITY OF THE MOU

- a. This MOU shall be effective from the date of its approval by both the parties entering into the agreement and shall continue until any new terms are included or a new MOU is requested by either of the parties.
- b. Any clause or article of the MOU may be modified or amended after a mutual agreement of the InLustro and the **Saranathan College of Engineering**.

CONFIDENTIALITY

- a. During the tenure of the MOU both INLUSTRO and Saranathan College of Engineering will maintain strict confidentiality and prevent disclosure of all the information and data exchanged under the scope of this MOU for any purpose other than in accordance with this MOU.
- b. Both INLUSTRO and Saranathan College of Engineering shall bind their respective personnel who came into possession or knowledge of any confidential information not to disclose the same to third parties without written approval of the disclosing party or use such confidential information for any use other than intended under this agreement.
- c. Further, both INLUSTRO and Saranathan College of Engineering shall put in place adequate and reasonable measures to keep and store confidential information secure so as to prevent any unauthorized use.
- d. CONFIDENTIAL INFORMATION shall mean any proprietary information, data or facts belonging to PARTIES collectively or severally, disclosed by the disclosing party under this agreement or any subsequent agreement, whether in writing, verbal or electrically, or with any other words having similar meaning by the disclosing



party, or specifically agreed to be kept confidential by the parties, or declined or identified so by the disclosing party before such disclosure or during the discussions.

DEFRAYALS INVOLVED

For all the students enrolled on our platform irrespective of the department and the year they are in the fee shall be INR 2360 per student per semester. If there's any raise in our fee structure, it will be applicable only for students who enrol in our platform from the following year, 2021.

RESOLUTION OF DISPUTES

The dispute or difference whatsoever arises between parties in relation to or in connection with this agreement both the parties shall first try to resolve the dispute/difference amicably between themselves, failing which the matter shall be referred to and settled through arbitration. The arbitration proceedings shall be held in accordance with the provision of Indian Arbitration and Reconciliation ACT, 1996. The venue of arbitration shall be Chennai and Language of arbitration shall be English.

MODIFICATION AND NOTICE

Any modification of the agreement can be done with a concern from disclosing and receiving party. All notification between the Parties relating to this agreement must be made in writing or formal mail communication by someone who is authorized.

For The Institution
Dr. D. Valavan
Principal

PRINCIPAL
Saranathan College of Engineering
TRICHY - 12.



For InLustro
Mr. Aditya Sambamoorthy
Founder and Director

Mr. Niwin Santhosh
Co-Founder and Director

Saranathan College of Engineering
Tiruchirappalli - 620 012

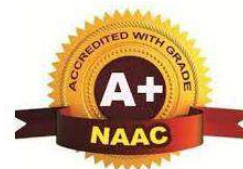
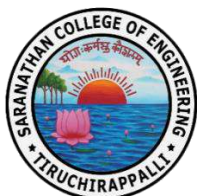


Electronics and Communication Engineering

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai-25)

Venkateswara Nagar, Panjappur, Tiruchirappalli - 620 012, Tamil Nadu.

**Department of Electronics and Communication Engineering**

S. No.	MoU	Year of signing MoU	Duration
1.	Tesla Minds Temple Tower, 4 th Floor, Vison Tech Park, Anna Salai, Chennai - 600035, Tamil Nadu, India.	2020-2021	3 Years
2.	OPTITHOUGHT 32/78 Easwardoss Street, Triplicane, Chennai - 600 005, Tamil Nadu, India.	2020-2021	3 Years
3.	Vi Microsystems Pvt. Ltd., 75, Electronics Estate, Perungudi, Chennai - 600 096, Tamil Nadu, India.	2017-2018	Life Membership
4.	RAAJ CONSULTING AND TECHNOLOGY SERVICES (RAACTS) 75, No 10B-3, New No. 5, I floor, 11th Cross, Thillai Nagar (East), Ramachadirapuram, Thennur (P.O), Trichy - 620 011, Tamil Nadu, India.	2017-2018	Life Membership

Tesla Minds

**Temple Tower, 4th Floor,
Vison Tech Park, Anna Salai,
Chennai - 600 035,
Tamil Nadu, India.**



தமிழ்நாடு தமிலநாடு TAMIL NADU 26-2-2021

87AB 154986

Saranathan College of Engg
Dept. of ECE
Panjappur, Trichy.

K. பாலுமகேந்திரன்
மு.தா.வி. சமயபுரம் டோல்கேட்
திருச்சி. தமிழ்நாடு
உரிமம் எண். 3/2015

MEMORUNDUM OF UNDERSTANDING

This Memorandum of Understanding entered into on 2nd March, 2021 at Tiruchirappalli between DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, of Saranathan College of Engineering, Tiruchirappalli, (herein after referred to as "ECE-SCE" located at Trichy, represented by the Professor & Head, Department of ECE, Saranathan College of Engineering, the College which expression shall unless repugnant to the context means and include its successors and assigns of the ONE PART) and M/S. Tesla Minds, Chennai (herein after referred to as "Tesla Minds" located at Chennai, represented by Shri. T. Jayanandan, Founder & CEO of Tesla Minds, the industry counter partner which expression "Industry" shall unless repugnant to the context means and include its successors and assigns of the OTHER PART).

T. Jayanandan



Dr. M. SANTHI, B.E., M.E., Ph.D.,
PROFESSOR & HEAD (ECE)
SARANATHAN COLLEGE OF ENGG.
TRICHIRAPPALLI - 620 012

M/S. TESLA MINDS is currently focusing on the Design and testing Microwave and RF integrated circuits and Antennae.

Department of Electronics and Communication Engineering is functioning at Saranathan College of Engineering, Tiruchirappalli since 1998 with all modern facilities. Saranathan College of Engineering was founded by "Vidya Seva Ratnam", "Guru Seva Mani" Auditor Sri. K. Santhanam in the year 1998. It was so named in respectful memory of his Guru Principal Saranathan, the greatest ever Principal of National College. It is a self financing college approved by AICTE and affiliated to Anna University, Chennai.


WHEREAS

The parties have had preliminary discussions in this matter and have ascertained areas of broad consensus. The parties now, have therefore, agreed to enter in writing these areas of consensus, under a Memorandum of Understanding.

RESPONSIBILITIES OF DEPARTMENT

- Department of Electronics and Communication Engineering shall provide entire infrastructure facilities including classrooms, laboratories, equipments, analytical tools and aids, library and qualified technical staff for conducting value added courses for the benefit of students and staff of department of ECE, Saranathan College of Engineering.
- Department of Electronics and Communication Engineering shall arrange necessary equipments for practical training to the students. The charges for hiring - on equipments for the training will be borne by Department of ECE, Saranathan College of Engineering, Tiruchirappalli.
- The internal evaluation as a part of the certification work for the value added courses through classroom tests, assignments, seminars, etc. will be




Dr. M. SANTHI, B.E., M.E., Ph.D.,
PROFESSOR & HEAD (ECE)
SARANATHAN COLLEGE OF ENGG
TRICHIRAPPALLI - 620 012

done by Department of Electronics and Communication Engineering as on when required.

- The expenses in connection with regular lectures, practical, remuneration to teaching faculty and supporting staff, internal evaluation will be borne by Department of ECE, Saranathan College of Engineering, Tiruchirappalli.

RESPONSIBILITIES OF THE INDUSTRY


- To deliver expert lecture sessions to the partnering department one in two months/ 3 lectures per semester.
- To provide internship and industrial training for students.
- To allow final year projects of the students of department of ECE, SCE for 8 students / 2 batches.
- To permit one faculty visit per year / industrial visit per year to the manufacturing unit or industry.
- To depute resource persons / technicians for training the students and the faculty members of ECE-SCE.
- To conduct campus interviews/placement drives for the students of ECE-SCE and help the students to get placement opportunities.

MISCELLANEOUS

All the terms and conditions of this MOU are subjected to the approval of Commissioner of Technical Education, Chennai and the provisions of the Rules and Regulations of the Government of Tamilnadu.

The duration of this MoU is for 3 years from the date of signing of this MoU. The MoU shall stand renewed automatically unless desired otherwise by either party.




Dr. M. SANTHI, B.E., M.E., Ph.D.,
PROFESSOR & HEAD (ECE)
SARANATHAN COLLEGE OF ENGG
TRICHIRAPPALLI - 620 012

In witness, whereof the parties have signed this Memorandum of Understanding on 02-03-2021 first herein above written.

For ECE-SCE, Tiruchirappalli

For TESLA MINDS




PROFESSOR & HEAD

DEPARTMENT OF ECE
Dr. M. SANTHI, B.E., M.E., Ph.D.,
PROFESSOR & HEAD (ECE)
SARANATHAN COLLEGE OF ENGG.
TRICHIRAPPALLI - 620 012


FOUNDER-CEO
TESLA MINDS, CHENNAI



Witnesses:

1.  (Dr. M. PADMAA)
2.  (Dr. C. VENNILA)

OPTITHOUGHT

**32/78, Easwardoss Street,
Triplicane, Chennai - 600 005,
Tamil Nadu, India.**



**MEMORANDUM OF UNDERSTANDING
BETWEEN
DEPARTMENT OF ECE,
SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI
AND
OPTITHOUGHT, CHENNAI**



This Memorandum of Understanding entered into on 23-07-2020 at Tiruchirappalli between DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, of Saranathan College of Engineering, Tiruchirappalli, (hereinafter referred to as “ECE-SCE” located at Tiruchirappalli- 620009, represented by the Professor & Head, Department of ECE, Saranathan College of Engineering, the College which expression shall unless repugnant to the context means and include its successors and assigns of the ONE PART) and Optithought, Authorized Value Added Reseller of National Instruments.

M/S Optithought is a System Integrator & solution provider in test and automation to provide Smart, Safe, Sustainable solutions. Optithought is an Authorized value added reseller of National Instruments in this part of the country. OPTITHOUGHT is currently focusing on the Supply Technical Lab Equipments of National Instruments and offering training on those equipments. OPTITHOUGHT is represented herein by Shri.E.Muralikrishnan, Founder-Director, Optithought, (herein after referred to as “Optithought” which expression shall unless repugnant to the context mean and intrude its successors and assigns of the OTHER PART).

Department of Electronics and Communication Engineering is functioning at Saranathan College of Engineering, Tiruchirappalli since 1998 with all modern facilities. Saranathan College of Engineering was founded by “Vidya Seva Ratnam”, “Guru Seva Mani” Auditor Sri. K. Santhanam in the year 1998. It was so named in respectful memory of his Guru Principal Saranathan, the greatest ever Principal of National College. It is a self financing college approved by AICTE and affiliated to Anna University, Chennai.

WHEREAS

The parties have had preliminary discussions in this matter and have ascertained areas of broad consensus. The parties now, have therefore, agreed to enter in writing these areas of consensus, under a Memorandum of Understanding.

RESPONSIBILITIES OF THE DEPARTMENT

- Department of Electronics and Communication Engineering shall provide entire infrastructure facilities including classrooms, laboratories, equipments, analytical tools and aids, library and qualified technical staff for conducting value added courses for the benefit of students and staff of department of ECE, Saranathan College of Engineering.
- Department of Electronics and Communication Engineering shall arrange necessary equipments for practical training to the students. The charges for hiring - on equipments for the training will be borne by Department of ECE, Saranathan College of Engineering, Tiruchirappalli.
- The internal evaluation as a part of the certification work for the value added courses through classroom tests, assignments, seminars, etc. will be done by Department of Electronics and Communication Engineering as on when required.
- The expenses in connection with regular lectures, practical, remuneration to teaching faculty and supporting staff, internal evaluation will be borne by Department of ECE, Saranathan College of Engineering, Tiruchirappalli.

RESPONSIBILITIES OF THE INDUSTRY

- To deliver expert lecture sessions to the partnering department one in two months/ 3 lectures per semester.
- To provide internship and industrial training for students.

- To allow final year projects of the students of department of ECE, SCE for 8 students / 2 batches.
- To depute resource persons / technicians for training the students and the faculty members of ECE-SCE.
- To conduct campus interview for the students of ECE-SCE and help the students to get placement opportunities.

MISCELLANEOUS


The collaborative ventures also include the scope for extending learning facility through LabView software and Optithought has agreed to give two user licenses of LabView software to the Department of ECE, Saranathan College of Engineering for training the Staff and students of ECE-SCE.

All the terms and conditions of this MOU are subjected to the approval of Commissioner of Technical Education, Chennai and the provisions of the Rules and Regulations of the Government of Tamilnadu.

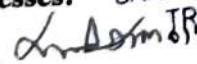
The duration of this MoU is for 3 years from the date of signing of this MoU. The MoU shall stand renewed automatically unless desired otherwise by either party.

In witness, whereof the parties have signed this Memorandum of Understanding on 23-07-2020 first herein above written.

For ECE-SCE, Tiruchirappalli

 23/7/20
PROFESSOR & HEAD

DEPARTMENT OF ECE
Dr. M. SANTHI, B.E., M.E., Ph.D.,
PROFESSOR & HEAD (ECE)

Witnesses: SARANATHAN COLLEGE OF ENGG
TRICHIRAPPALLI - 620 012
1.  / Asst. Prof / SCE

2.

For Optithought, Chennai
For OPTITHOUGHT


FOUNDER-DIRECTOR

OPTITHOUGHT, CHENNAI
Partner

Vi Microsystems Pvt. Limited
75, Electronics Estate, Perungudi,
Chennai - 600 096,
Tamil Nadu, India.

MEMORANDUM OF UNDERSTANDING BETWEEN

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING**

**SARA-ECE COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI - 620 012**

&

M/s Vi Microsystems Pvt. Ltd.,
75, Electronics Estate, Perungudi, Chennai - 600 096

Vi Microsystems



Vi Microsystems Pvt. Ltd., having its office at 75, Electronics Estate, Perungudi, Chennai - 600 096, (herein after referred to as "Vi Microsystems") and Department of ECE, Saranathan College of Engineering of having its registered office at "Venkateswara Nagar, Panjappur, Tiruchirappalli - 620012, Tamil Nadu, India" (herein after referred to as the "Sara-ECE") have mutually agreed to sign an MOU for the benefit of faculty and students of the Department of ECE. As a part of this MOU, following points are arrived at and to be ensured at both ends.

From the side of Vi Microsystems:

- Vi Microsystems shall facilitate internship for the students during the winter / summer vacation.
- Vi Microsystems shall take the responsibility of assigning projects to the students who are allowed to take internship at their place. These projects can be done at Sara-ECE during the eighth semester and can be considered as academic project as per the requirement of the affiliated University. Vi Microsystems shall assign mentors to assess the performance of the students periodically and certificates shall be issued at the end of the semester.
- Vi Microsystems shall facilitate internship for the faculty members of the department during the winter / summer vacation and certificates shall be issued.
- Vi Microsystems shall endeavor to arrange resource persons from industries to conduct technical seminars / workshops at Sara-ECE during the semester. Vi Microsystems shall take the responsibility of delivering the required course materials.

- Vi Microsystems shall endeavor to arrange resource persons / panel members for assessing the mini-projects. Certificates containing both logos shall be issued to the participants.
- Vi Microsystems shall assign experts to help in preparing MODROBS proposals to be submitted to the funding agencies to upgrade the Lab facilities of Sara-ECE.
- Vi Microsystems shall take the responsibility of formulating value added experiments beyond syllabi with the existing facilities in Labs at Sara-ECE.
- Vi Microsystems shall permit the students of ECE to visit the industrial site of Vi Microsystems for getting an exposure in the area of current technologies, product development and protocols followed in the industries.

From the side of Sara-ECE:

- Sara-ECE shall take the responsibility of sending the best students for internship during the winter or summer vacation. Boarding and lodging expenses shall be borne by the students.
- Sara-ECE shall take the responsibility of assigning mentors from our end to assess the projects in association with the mentors from your end.
- Sara-ECE shall take the responsibility of sending the interested faculty members for internship during the winter or summer vacation. Boarding and lodging expenses shall be borne by us.
- Sara-ECE shall nominate the faculty in-charge from our end to undertake the consultancy services.
- Sara-ECE shall make the arrangements for boarding and lodging of the resource persons for the seminars / workshops / mini projects within our campus.
- Sara-ECE shall take the responsibility of printing the certificates to be issued to the participants of seminars / workshops / mini projects.
- Sara-ECE shall nominate faculty in-charges to prepare MODROBS proposals in association with the expert from your end.

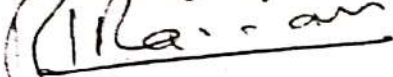
Vi Microsystems and Sara-ECE acknowledge that this MOU is only a brief statement of the intentions of the parties herein with regard to the areas in which the services are offered and the parties agree that the terms and conditions in respect of the precise scope and extent of work to be carried out and the manner of execution of such work under each area shall be incorporated by the way of a separate correspondence with regard to the above said areas.

This MOU is non-binding and shall be valid for a period of 5 years (renewable) from the date of execution of until exchange of correspondence as aforesaid whichever earlier is later.

Vi Microsystems shall have the right to terminate the MOU at any time before the date of the expiry by giving a notice in writing one month in advance.

Agreed and Signed on behalf of:

Authorized Signatory

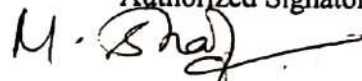


Vi Microsystems



Authorized and signed on behalf of:

Authorized Signatory



Dr. M. SANTHI,

Professor & Head,

Department of ECE

Sara-ECE College of Engineering

**RAAJ CONSULTING AND
TECHNOLOGY SERVICES
(RAACTS)**

**75, No 10B-3, New No. 5, I floor,
11th Cross, Thillai Nagar (East),
Ramachadirapuram, Thennur (P.O),
Trichy - 620 011,
Tamil Nadu, India.**

MEMORANDUM OF UNDERSTANDING BETWEEN

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
SARA-ECE COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI – 620 012**



**&
RAAJ CONSULTING & TECHNOLOGY SERVICES**



RAACTS having its office at 75, No 10B-3, New No. 5, I floor, 11th Cross, Thillai Nagar (East), Ramachadirapuram, Thennur (P.O), Trichy-620011 (herein after referred to as the "RAACTS") and Department of ECE, Saranathan College of Engineering of having its registered office at "Venkateswara Nagar, Panjappur, Tiruchirappalli – 620012, Tamil Nadu, India" (herein after referred to as the "Sara-ECE") have mutually agreed to sign an MOU for the benefit of faculty and students of the Department of ECE. As a part of this MOU, following points are arrived at and to be ensured at both ends.

From the side of RAACTS:

- RAACTS shall facilitate internship for the students during the winter / summer vacation.
- RAACTS shall take the responsibility of assigning projects to the students who are allowed to take internship at their place. These projects can be done at Sara-ECE college during the eighth semester and can be considered as academic project as per the requirement of the affiliated University. RAACTS shall assign mentors to assess the performance of the students periodically and certificates shall be issued at the end of the semester.
- RAACTS shall facilitate internship for the faculty members of the department during the winter / summer vacation and certificates shall be issued.
- RAACTS shall endeavor to arrange resource persons from industries to conduct technical seminars / workshops at Sara-ECE during the semester. RAACTS shall take the responsibility of delivering the required course materials.
- RAACTS shall endeavor to arrange resource persons / panel members for assessing the mini-projects. Certificates containing both logos shall be issued to the participants.

- RAACTS shall assign experts to help in preparing MODROBS proposals to be submitted to the funding agencies to upgrade the Lab facilities of Sara-ECE.
- RAACTS shall take the responsibility of formulating value added experiments beyond syllabi with the existing facilities in Labs at Sara-ECE.
- RAACTS shall take the responsibility of framing the syllabus for Workshop on PCB design to be conducted for ECE students and conduct the workshop on the dates decided in consultation with the Head of the Department of ECE.
- RAACTS shall permit the students of ECE to visit the industrial site of RAACTS for getting an exposure in the area of current technologies, product development and protocols followed in the industries.

From the side of Sara-ECE:

- Sara-ECE shall take the responsibility of sending the best students for internship during the winter or summer vacation. Boarding and lodging expenses shall be borne by the students.
- Sara-ECE shall take the responsibility of assigning mentors from our end to assess the projects in association with the mentors from your end.
- Sara-ECE shall take the responsibility of sending the interested faculty members for internship during the winter or summer vacation. Boarding and lodging expenses shall be borne by us.
- Sara-ECE shall nominate the faculty in-charge from our end to undertake the consultancy services.
- Sara-ECE shall make the arrangements for boarding and lodging of the resource persons for the seminars / workshops / mini projects within our campus.
- Sara-ECE shall take the responsibility of printing the certificates to be issued to the participants of seminars / workshops / mini projects.
- Sara-ECE shall nominate faculty in-charges to prepare MODROBS proposals in association with the expert from your end.

RAACTS and Sara-ECE acknowledge that this MOU is only a brief statement of the intentions of the parties herein with regard to the areas in which the services are offered and the parties agree that the terms and conditions in respect of the precise scope and extent of work to be carried out and the manner of execution of such work under each area shall be incorporated by the way of a separate correspondence with regard to the above said areas.

This MOU is non-binding and shall be valid for a period of 5 years (renewable) from the date of execution of until exchange of correspondence as aforesaid whichever earlier is later.

RAACTS shall have the right to terminate the MOU at any time before the date of the expiry by giving a notice in writing one month in advance.

Agreed and Signed on behalf of:
Authorized Signatory

RAACTS



Authorized and signed on behalf of:

Authorized Signatory

Dr.M.SANTHI,

Professor & Head,

Department of ECE

Sara-ECE College of Engineering

Saranathan College of Engineering
Tiruchirappalli - 620 012

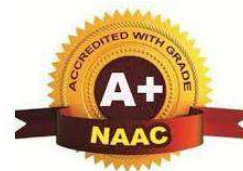


Instrumentation & Control Engineering

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai-25)

Venkateswara Nagar, Panjappur, Tiruchirappalli - 620 012, Tamil Nadu.

**Department of Instrumentation and Control Engineering**

S. No.	MoU	Year of signing MoU	Duration
1.	Zentron Labs Private Limited #16, PSS Plaza Gr. Floor, New Thippasandra Main Rd, HAL 3 rd Stage, Bengaluru - 560075, Karnataka, India.	2020-2021	5 Years
2.	FluxGen Engineering Technologies Private Limited 1064, 1 st floor, 18 th Main, 2 nd Stage, BTM Layout, Bengaluru - 560076, Karnataka, India.	2015-2016	Life Membership
3.	TREND Instrumentation and Automation PVT LTD #150/88, Dharma Tower,	2014-2015	Life Membership

	Nelson Manickam Road, Chennai - 600094, Tamil Nadu, India.		
4.	Yokogawa India Limited Plot No. 96, Electronic City Complex, Hosur Road, Bengaluru - 560100, Karnataka, India.	2013-2014	Life Membership
5.	NI Systems (India) PVT LTD 81/1 & 82/1, Salarpuria Softzone, Wing B, 5 th Floor, Block A Bellandur, Varthur Hobli, Bengaluru - 560103, Karnataka, India.	2013-2014	Life Membership

Zentron Labs Private Limited

**#16, PSS Plaza Gr. Floor,
New Thippasandra Main Rd,
HAL 3rd Stage, Bengaluru - 560075,
Karnataka, India.**

Memorandum of Understanding (MOU)

Between

Saranathan College of Engineering

and

Zentron Labs Pvt Ltd

for the establishment of

Zentron Development Center

and

Zentron Labs - SCE Center of Excellence for Industrial Software and
Systems

This **Memorandum of Understanding** (MOU) entered into on 21/12/2020 by and between

Saranathan College of Engineering, Venkateswara Nagar, Panjappur, Tiruchirapalli - 620012, Tamil Nadu, the First Party, represented herein by **Dr. D. Valavan/Principal**, hereafter called **SCE**
and

Zentron Labs Pvt Ltd, PSS Plaza New Thippasandra Main Rd, Bengaluru, Karnataka 560075, the Second Party, represented herein by R. Krishnan, Founder & CEO, hereinafter called **Zentron**

WHEREAS

As a company, Zentron is involved in the design, development and production of high-tech industrial products in the area of manufacturing quality and Agritech. Zentron's vision is to become a world-class company from India, known for innovation, progress and business-excellence. Zentron possesses strong experience in multi-disciplinary product development, LabView, electronics and embedded systems and has a rich set of ideas for new products and engineering methods. Zentron has on its rolls, several alumni from Saranathan College of Engineering (SCE), recruited over a period of 5 years. Having been educated by SCE in good engineering and LabView skills, they have been nurtured to become a critical part of Zentron's team and involved deeply in product development.

WHEREAS

As an institution, SCE's mission is to deliver engineering training to the students with well-equipped Laboratories and convert them into technocrats of international repute. SCE has well established UG and PG programs in key engineering subjects, training programs, technology infrastructure and keenness to collaborate with the industry.

WHEREAS

Considering these as the background, the following are the motivation:

- A. SCE and Zentron are interested in establishing a Centre of Excellence (CoE) in Industrial Software and Systems where Zentron and SCE can collaboratively work, for mutual benefit in areas of common interest, on advancing engineering methods and research.
- B. Zentron and SCE believe that such cooperation through this CoE, can promote optimal use and advancement of their respective knowledge, experience and human resources thus providing each of them with new and improved opportunities for learning
- C. Zentron is interested in establishing a development center at SCE. SCE is interested in establishing and encouraging a "start-up incubation centre" in their campus and believe that it can lead to a vibrant environment of innovation in engineering, in their campus.

- D. SCE is interested in finding viable solutions to those real-life engineering challenges that Zentron has experience in and access to.
- E. Both Zentron and SCE believe that such a collaboration can lead to creation of expertise as well as solutions that can form components of a technology platform for industrial software and systems.
- F. SCE believes that this cooperation will serve as a fore runner and a pilot for incubation and innovation within the campus.

THEREFORE, IN CONSIDERATION OF THE MUTUAL EXPECTATIONS SET FORTH IN THIS MOU, THE PARTIES HERE TO AGREE AS FOLLOWS

- A. Zentron and SCE will set up a CoE for Industrial Software and Systems where collaborative projects will be undertaken. The CoE is not a legal entity, but is a notional entity for such collaborative work. Projects will be defined and undertaken based on mutual discussion. Zentron staff and dedicated SCE staff may be fully or partially appointed to such projects. In addition, both parties may mutually decide to recruit staff dedicated fully for such CoE projects. Interns (students and/or faculty) may also be allocated to the CoE projects after evaluation and based on mutual discussion. Such projects are expected to provide focus and direction, to the faculty members as well as the student interns involved in the CoE, in goal-oriented, time-bound and industry centric deliverables. It will additionally provide a platform for faculty to get exposed to real-life challenges in the industry and thus continually orient and adapt themselves to innovations and the expectations of the industry. They can in turn transfer these to their students thus making them better employable prospects.
- B. SCE will facilitate Zentron to set up its development center (Zentron Trichy Development Center) within the SCE campus or any mutually agreed alternate facility suggested by SCE. SCE will extend the necessary facility support to this development center. The presence of development engineers of Zentron in close proximity to the CoE and the staff of SCE is also expected to encourage cross-pollination of engineering ideas and methods.

IN CONSIDERATION OF THE ABOVE, THE RESPONSIBILITIES OF THE PARTIES ARE LISTED AS FOLLOWS

1. **SCE Responsibilities**

- A. SCE will provide a facility for the ZTDC and the CoE equipped with the following
 - Dedicated rooms (air-conditioned) with facilities including desks, dedicated meeting rooms, access to washrooms (men and women separate), secure

networking and internet connectivity, electrical fixtures and connection points.

Zentron will bear the actual cost of internet and electricity.

●Desktops/laptops for interns and COE team members where necessary.

- B. ZTDC to be dedicated for the use of Zentron employees, interns and CoE team members only
- C. To get a first-hand experience of the industry expectations, SCE will take up the responsibility of bringing the COE Projects to their successful completion.
- D. SCE may nominate faculty-in-charge to technically guide, supervise, track and take the projects to completion.
- E. SCE may consider sponsoring the CoE projects in terms of human resources (faculty, research scholars, interns), hardware and software resources, equipment and other project requirements at their discretion. Extent of the contribution will be decided on a project to project basis in consultation with Zentron
- F. SCE may apply for funding for the CoE projects from Government Agencies with Zentron as an industry partner
- G. The CoE will be managed by Department of Instrumentation and Control Engineering

2. Zentron Responsibilities

- A. Zentron will operate the ZTDC within the allocated facility inside the SCE Campus.
- B. Zentron will collaborate with SCE in the formation and functioning of the Industrial Software and Systems CoE.
- C. Zentron will continuously engage with SCE as part of the CoE to share and define engineering challenges in the space of industrial software and systems and that may be taken up by the CoE. Zentron may provide technical assessment from an industry angle.
- D. Zentron may provide technical recommendations/guidance to the execution of projects in the CoE.
- H. Zentron may consider sponsoring the CoE projects in terms of human resources (staff, interns), hardware and software resources, equipment and other project requirements at their discretion. Extent of the contribution will be decided on a project to project basis in consultation with SCE
- E. Zentron may apply for funding for the CoE projects from Government Agencies with SCE as an academic partner
- F. Zentron employees may share knowledge in the form of guest lectures or training sessions to the faculty and students of SCE in Zentron's areas of expertise.

3. Joint Responsibilities

- A. Zentron and SCE will jointly track these projects periodically and take actions pertaining to the status of the projects through fortnightly (or a different frequency depending on the status of the project) joint meetings
- B. Any Intellectual Property coming out of a CoE project will be jointly owned by SCE and Zentron. Zentron will have right use the IP as part of Zentron commercial products. SCE may open-source or divulge to third party(s), parts of CoE output only with the express written consent of Zentron.
- C. Zentron and SCE may jointly conduct technical competitions, hackathons, quizzes relevant to CoE focus areas to expose students (from SCE and/or other institutions) to the industry environment
- D. SCE may use the Zentron Logo as part of communication materials pertaining to placement and industrial collaboration

Disclaimer : Both Zentron and SCE are not obligated to provide funding, provide staff, recruit or fund in either cash or in kind, but may undertake to do any/all of these on a best effort basis after mutual discussions. All the above-mentioned points are statements of intent, in good faith.

This MOU is valid for the period between Dec 1, 2020 to Dec 31, 2021 and may be extended with the consent of both the parties for further periods in tranches of 1 year. The MOU may be withdrawn by either party with a 90 days written notice specifying the reason and the notice being sent to the address as specified in this MOU.

Authorized Signatory

SCE

Dr.D. Valavan

Principal,

Saranathan College of Engineering,

Venkateswara Nagar,

Panjappur,

Tiruchirapalli - 620012,

Tamil Nadu.

Authorized Signatory

Zentron Labs

**FluxGen Engineering
Technologies Private Limited
1064, 1st floor, 18th Main, 2nd Stage,
BTM Layout,
Bengaluru - 560076,
Karnataka, India.**



Saranathan College of Engineering

Venkateswara Nagar, Panjappur,
Tiruchirappalli-620012,
Tamil Nadu, India
Contact No: 084899 15204
www.saranathan.ac.in

FluxGen Engineering Technologies

Private Limited

BTM Layout, Bangalore – 560 076,
Karnataka, India.
Contact No: 97319 25888.
www.fluxgentech.com

Memorandum of Understanding

Cooperation between FluxGen Engineering Technologies Pvt. Ltd., India, and Saranathan College of Engineering, India

We, the undersigned, representing FluxGen Engineering Technologies Pvt. Ltd. and Saranathan College of Engineering, in the capacity of Managing Director and Principal, respectively, hereby declare that we will collaborate on the programs listed below.

Development of System Developer's Laboratory in Campus Joint Internship and Student Development Program Projects involving implementation of Renewable Energy based Micro-Grids in Rural India

FluxGen Engineering Technologies and Saranathan College of Engineering are willing and ready to play an efficient and vivid role in the successful and efficient implementation of the mentioned programs according to envisaged tasks.

Based on this MoU, we will draw up a mutually acceptable detailed plan of action which would become the reference document for our future course of action.

Date: 04th September, 2015

Mr. Ganesh Shankar

Managing Director,
FluxGen Engineering Technologies Pvt. Ltd,

Dr. D. Valavan,

Principal,
Saranathan College of Engineering

**TREND Instrumentation and
Automation Private Limited**

**#150/88, Dharma Tower,
Nelson Manickam Road,
Chennai - 600094,
Tamil Nadu, India.**



TREND

INSTRUMENTATION AND AUTOMATION PVT LTD



Memorandum of Understanding

This Memorandum of Understanding (the Memorandum) is made on this October 11, 2014, by and between TREND Instrumentation and Automation Pvt Ltd, of #150/88, Dharma Tower, Nelson Manickam Road, Chennai-94, hereinafter referred to as TA and Saranathan College of Engineering, Venkateswara Nagar, Panjappur, Tiruchirappalli-620012, Tamil Nadu, India, hereinafter referred to as SCE for the purpose of achieving the various aims and objectives relating to the Instrumentation Training (Anywhere in this document Project means instrumentation training).

WHEREAS TA and SCE desire to enter into an agreement in which TA and SCE will work together to provide Instrumentation Industrial Knowledge to students and staffs;

AND WHEREAS TA and SCE are desirous to enter into a Memorandum of Understanding between them, setting out the working arrangements that each of the partners agree are necessary to execute the Project;

Purpose

The purpose of this Memorandum is to provide the framework for any future binding contract regarding the Instrumentation Training between TA and SCE.

Obligations of the Partners

The Partners acknowledge that no contractual relationship is created between them by this Memorandum, but agree to work together in the true spirit of partnership to ensure that there is a united visible and responsive leadership of the Project and to demonstrate financial, administrative and managerial commitment to the Project by means of the following individual services.

Cooperation

The activities and services for the Project shall include, but not limited to:

a.Services to be rendered by TA include:

Providing Training to the students and staffs of Instrumentation Design, printing of Certificates, printing of Material, Laboratory Upgradation, Software Sales and sharing the instrumentation updates to students and staffs undergoing workshop and internship.

b.Services to be rendered by SCE
include: Batch allocation.

Resources

The Partners will endeavor to have final approval and secure any financing necessary to fulfill their individual financial contributions at the start of the planning for the development of the Project.

a.TA agrees to provide the following material and labor resources in respect of the Project; Faculty required for Training the students and staffs, Printing of Materials and Certificates b.SCE hereby agrees to provide the following
Space for training and payment for training the students and staffs.

Communication Strategy

Marketing of the vision and any media or other public relations contact should always be consistent with the aims of the Project and only undertaken with the express agreement of both parties. Where it does not breach any confidentiality protocols, a spirit of open and transparent communication should be adhered to. Co-coordinated communications should be made with external organizations to elicit their support and further the aims of the Project.

Liability

No liability will arise or be assumed between the Partners as a result of this Memorandum.

Dispute Resolution

In the event of a dispute between the Partners in the negotiation of the final binding contract relating to this Project, a dispute resolution group will convene consisting of the Chief Executives of each of the Partners together with one other person independent of the Partners appointed by the Chief Executives. The dispute resolution group may receive for consideration any information it thinks fit concerning the dispute. The Partners agree that a

decision of the dispute resolution group will be final. In the event the dispute resolution group is unable to make a compromise and reach a final decision, it is understood that neither party is obligated to enter into any binding contract to complete the Project.

Term

The arrangements made by the Partners by this Memorandum shall remain in place from October 11, 2014 until October 11, 2015. The term can be extended only by agreement of all of the Partners.

Notice

Any notice or communication required or permitted under this Memorandum shall be sufficiently given if delivered in person or by certified mail, return receipt requested, to the address set forth in the opening paragraph or to such other address as one party may have furnished to the other in writing.

Governing Law

This Memorandum shall be construed in accordance with the laws of the State of Tamil Nadu.

Assignment

Neither party may assign or transfer the responsibilities or agreement made herein without the prior written consent of the non-assigning party, which approval shall not be unreasonably withheld.

Amendment

This Memorandum may be amended or supplemented in writing, if the writing is signed by the party obligated under this Memorandum.

Severability

If any provision of this Memorandum is found to be invalid or unenforceable for any reason, the remaining provisions will continue to be valid and enforceable. If a court finds that any provision of this Memorandum is invalid or unenforceable, but that by limiting such provision it would become valid and enforceable, then such provision will be deemed to be written, construed, and enforced as so limited.

Prior Memorandum Superseded

This Memorandum constitutes the entire Memorandum between the parties relating to this subject matter and supersedes all prior or simultaneous representations, discussions, negotiations, and Memorandums, whether written or oral.

Understanding

It is mutually agreed upon and understood by and among the Partners of this Memorandum that:

- a. Each Partner will work together in a coordinated fashion for the fulfillment of the Project.
- b. In no way does this agreement restrict involved Partners from participating in similar agreements with other public or private agencies, organizations, and individuals.
- c. Technical updates in the field of instrumentation will be provided to the students and staffs in the form of workshops and internships.
- d. Students will be allowed to engage in our Industrial projects in their 8th sem.
- e. This Memorandum will be effective upon the signature of both Partners.
- f. Any Partner may terminate its participation in this Memorandum by providing written notice to other Partner.

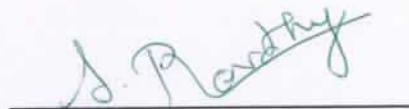
The following Partners support the goals and objectives of the Instrumentation Training:

Signatories

This Agreement shall be signed on behalf of TREND Automation by Mr Vishnuvardhan J, Managing Partner, and on behalf of Saranathan College of Engineering by Dr.A.Revathy, Principal. This Agreement shall be effective as of the date first written above



For TREND Automation



For Saranathan College of Engineering

Yokogawa India Limited

**Plot No. 96, Electronic City Complex,
Hosur Road, Bengaluru - 560100,
Karnataka, India.**

MEMORANDUM OF UNDERSTANDING

This memorandum of understanding made on this 24th day of October 2013 entered into between:

YOKOGAWA INDIA LIMITED, a company registered under the companies act 1956, having its registered office and head office at-Plot No.96, Electronic City Complex, Hosur Road, Bangalore – 560 100, and its Regional office at Kothari Building, 2nd Floor, Door No. 115, Mahatma Gandhi Road (Nungambakkam High Road), Chennai – 600034, represented by **Mr.S.Senthil, Assistant Manager Customer Service Division, here in after called “YIL” of the first part:**

And

Saranathan College of Engineering, an organization, having its Principal office at VenkateswaraNagar, MaduraiRoad,, Panjappur, Thiruchirappalli - 620 012, represented by **Dr.A.Revathy, Principal, here in after called “SCE” of the second part:**

The party of the first part and the party of the second part will be called jointly as “parties” whereas YIL is in the business of Process Automation and training, and wishes to enlarge its operations by making available its expertise to other organizations.

Now this Memorandum of Understanding witnesseth as follows:

A. YIL RESPONSIBILITIES

1. YIL undertakes that it will conduct on-site training programs/courses at the premises provided by SCE.
2. YIL will conduct specific training programmes/ courses as detailed in schedule A (To be given by YIL).
3. YIL will provide instructors to impart in-depth lecture sessions and guidance during the practical sessions.
4. YIL will meet the expenses incurred by the instructors towards travel and transportation. Accommodation & boarding for the instructors shall be provided by SCE.
5. YIL will provide the course material, in the form of CD and hand outs for the participants and also will issue a certificate to the successful candidates.
6. YIL will provide relevant support for conducting the program.
7. YIL On exigencies or if deem fit necessary could shift the classes to premises of their choice. In such cases, the additional costs will be shared by parties as mutually agreed in advance on a case to case basis.
9. YIL grants to SCE a non exclusive right to use and SCE shall use any trademark / logo only in relation to the promotion of training and during the term of this agreement, the trademarks as notified in writing to the SCE.

B.SCE 's RESPONSIBILITIES

1. SCE will provide necessary premises and other facilities like computers, printers, and support facilities. Video and audio, etc., as per annexure attached to conduct the courses.
2. SCE will ensure that participating student has access to relevant hardware and software.
3. SCE will provide free lodging facilities to the instructors deputed by YIL, if required.
4. SCE will ensure relevant and reasonable support for conducting the courses.
5. SCE will bear normal costs towards advertisement, publicity and other promotional activities.
6. SCE undertakes not to forward or disclose any information concerning the specifics of this agreement to any other Educational Institution without the prior written consent of YIL.
7. SCE acknowledges that YIL, YIL it is the trade marks of YIL and its group and that YIL is the dominant feature trade name.
8. SCE will not permit any practice that may be detrimental to the trademarks or goodwill or reputation of YIL or its services.
9. SCE's use of any of the trademarks will be strictly in accordance with YIL's instructions.
10. The course is for consecutive 5 days or more with respect to the module which college wants to go with per semester or per year, as per SCE's requirement and SCE can pay full amount at the beginning of the training as per course fee details given in Schedule 'A'.
11. Course fee given in schedule 'A' may be revised every year if any financial amendments occurs.
12. SCE can select from the list of courses offered by YIL as per the details given in Schedule A and taking the suggestions from YIL. These training programmes suits students of E&I, ICE, EEE, ECE and CHEMICAL ENGG departments

C.COPYRIGHT

1. YIL agrees to give SCE a license copy of course material for academic use only.
2. YIL will bring the necessary DCS /PLC software for the training programme. DCS / PLC software would be installed in the given PCs for the students during the training programme by YIL. At the end of training programme, YIL will uninstall the softwares from the PCs.
3. SCE shall not copy, sell or lend courseware, except as specially agreed to YIL.
4. SCE will provide course material only to students registered in a class and who has paid the necessary from SCE will not allow any individual/ student to attend any class without due registration.
5. SCE will provide an "annual business plan", to YIL at the beginning of each one year period the "annual business plan", will all include all aspects of marketing and teaching plans of courses covered under this agreement as part of the "annual business plan", SCE will also provide YIL with their estimates of payment expected to YIL.

7.The training shall be conducted only by YOKOGAWA instructors.

D. FORCE MAJEURE

No party shall be liable to the other if and to the extent, that the performance or performance of any of its obligators under this agreement is prevented, restricted or interfered due to circumstances beyond the reasonable control of such party including but not limited to government legislation, fire, flood, explosion, epidemics, accidents, act of god, wars, riots, strikes, lockouts or other connected acts of workmen and act of Government .

E.TERMS OF AGREEMENT AND TERMINATION OF AGREEMENT

1.This agreement is effective from the date of signing by YIL and shall be valid for a period of one year (12 months) from the date of the agreement. The parties may renew this agreement for further periods on mutually agreed terms.

2.Either party may terminate this agreement by giving not less than 3 months notice to the other party.

3.Notwithstanding the stipulation in above clause, each party is entitled to terminate this agreement immediately on any other party committing the breach , which is not insignificant and such party does not remedy such breach within 30 days from written notice by the other party requiring are default party to remedy the same .

4.In the event of termination of the agreement, for whatever reasons, both the parties agree to fulfill their respective commitments to the already registered batch of students as if the agreement is still in force.

5.On termination of this agreement, neither party will be entitled to claim any compensation or damages for or in respect of or by reason of such termination, except where such claim is based on the default of the other party.

6.Neither party will in any event be liable to the other party under this agreement for loss of profit, loss of business, loss of revenue or for any indirect, incidental or consequential damages whether or not the possibility of such damages could have been reasonably foreseen.

F.GENERAL PROVISIONS

1.Unless specified otherwise SCE will obtain, install and maintain the resources and equipment as in schedule C attached hereto, to the extent of required number.

2.SCE is an independent entity and neither has nor will have any power, right or authority to bind YIL or to assume or to create any obligation or responsibility expressed or implied on behalf of YIL .

3.Nothing contained in this agreement will be construed as constituting SCE and YIL as partners or joint ventures, or as creating the relationship of employer and employee ,as principal and agent or otherwise create any other relation ship than as a provider of the service and SCE ,as set out in this agreement .

- 4.This agreement is not assignable by SCE to any other party and YIL will have the right to transfer or assign this agreement wholly or partly to any company within the YIL group.
- 5.This agreement shall be governed by and construed in accordance with Indian laws.
- 6.The parties agree that they will indemnify each other from any and all claims from third parties arising out of acts, omissions or misrepresentation by the other party.
- 7.Neither party will disclose or make any unauthorized use of any information concerning to other party's business or information obtained in the course of their activities under this agreement, except to the extent necessary as per this agreement or any law .
- 8.The party's obligations under this agreement will survive the termination of the agreement.
- 9.SCE further agrees that activity in utilizing YIL 's training courses will not infringe the right of others nor will such activities cause YIL to infringe the rights of any third parties, including violations of copyright, trade secret or other proprietary rights.
- 10.SCE and YIL jointly remains responsible for marketing of courses and other administrative aspects of conducting courses and classes. SCE would take the responsibility of collecting the fee from the students. YIL will not get involved in fee collection from students.
- 11.Both SCE and YIL agree that the terms and conditions in the agreement are confidential and will not be disclosed to any other third party.
- 12.YIL reserves the right to enter into similar agreement with others beyond the limits as specified elsewhere in the agreement.
- 13.In cases where SCE and YIL are in competition with each other, or SCE is in competition with another YIL's client, SCE and YIL agree that such competitive marketing shall be such that each party will sell the positive aspects and the benefits of using their respective education services.
- 14.No action regardless of form, arising out of this agreement may be brought by either party more than two years after the cause of action has arisen, except in the case of non - payment, in which event the appropriate statutory limitation to action for collection will be applicable.
- 15.Certificates will be issued only to those students who have completed their courses successfully in all respects. The certificates will be issued within thirty days of such completion and will be handed over to SCE to be given to the students .

G . ARBITRATION:

- 1.All disputes or differences whatsoever arising between the parties out of or relating to the construction ,meaning and operation or effect of this contract or the breach thereof shall be settled by arbitration with the rules of arbitration of the Indian council of arbitration at Chennai only and the award made in pursuance thereof shall be binding on the parties .
- 2.SCE ACKNOWLEDGES THAT SCE HAS READ THIS AGREEMENT, UNDERSTANDS IT, AND AGREES TO BE BOUND BY ITS TERMS AND CONDITIONS.FURTHER, SCE AGREES THAT THIS,TOGETHER WITH ANY SUPPLEMENT OR SCHEDULE OF CHARGES, IS THE COMPLETE AND

EXCLUSIVE STATEMENT OF THE AGREEMENT BETWEEN THE PARTIES WHICH SUPERSEDES ALL PROPOSALS OR PRIOR AGREEMENTS, ORAL, OR WRITTEN AND ALL OTHER COMMUNICATIONS BETWEEN THE PARTIES RELATING TO THE SUBJECT MATTER OF THIS AGREEMENT

SCHEDULE-A

COURSES / PRICE LIST

S. No	Course name	Hours	Total fees (INR)
1.	Distributed Control System (DCS), Field Instruments & Field Bus Technology	9 days – 63 hours	Rs.2,00,000/ batch
2.	Distributed Control System (DCS) & Programmable Logic Controller (PLC)	5 days – 35 hours	Rs.1,25,000/batch
3.	Distributed Control System (DCS)& Industrial Communication Protocols (in cp)	5 days – 35 hours	Rs.1,25,000/batch
4	Programmable Logic Controller (PLC) & SCADA	5 days – 35 hours	Rs.1,25,000/batch

Note: Each batch can consist of maximum 70 students. If the total students exceed 60, it should be split into two batches for conducting the training programme.

An additional amount of 12.36% of the total course fees will be levied as service tax.

SCHEDULE B – CONSIDERATION

The above Schedule A fee has to be paid to YIL according to the courses selected by SCE, including the service tax. Over and above the mentioned fee, SCE can collect from the students for arranging the training programme or against any other expenses incurred by them.

The amount collected towards services tax will not form a part of the above sharing, as the entire amount of taxes will be given to the government.

SCHEDULE -C

1.The college and YIL should abide by and strictly adhere to the following guidelines in running the courses under this agreement:

2.YIL approved display / signboard, the formats of which are already given should only be used.

3.YIL name and logo should not be used in the letterheads and visiting cards of SCE. The letterheads and visiting cards must be only in the name of the company under which the agreement is signed with YIL The only reference to YIL which is “An YIL Authorized Training Center” (No YIL Logo) under SCE name.

4.SCE should use only YIL designed advertisements, posters, leaflets etc.

5. Any other printed material that SCE would like to use with YIL Name / logo on it, requires written approval by YIL before releasing of the same.
6. No deviation from the signed agreement will be allowed without YIL's written concurrence.
7. Non-compliance of rule Nos. 4 & 5 mentioned above, will lead to termination of the agreement.
8. SCE should clearly understand that they are authorized only to run YIL's Training Courses on behalf of YIL and in no other way they represent YIL.

SCHEDULE D – INFRASTRUCTURE REQUIREMENTS

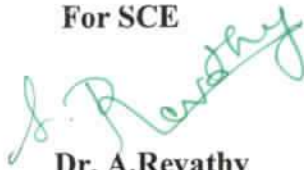
LABORATORY – COURSES

1. SCE is to provide seminar hall along with PC's for conducting the training programme, based on the number of students participating in the programme, with Video-Audio arrangements.

SCHEDULE E – HARDWARE AND SOFTWARE REQUIREMENTS

1. Number of PCs , as per the students strength.
2. PC Configurations (minimum) required are given below:
PIV, Harddisk -25GB, 512MB RAM, FDD, CD Drive with
15" Monitor. Software : Windows XP.

For SCE



**Dr. A. Revathy
Principal**

For YIL LTD



**Mr. Senthil
Assistant Manager
Customer Service Division**

**NI Systems (India) Private
Limited**

**81/1 & 82/1, Salarpuria Softzone, Wing B,
5th Floor, Block A Bellandur,
Varthur Hobli, Bengaluru - 560103,
Karnataka, India.**

**MEMORANDUM OF UNDERSTANDING FOR COLLABORATION
BETWEEN
NI SYSTEMS (INDIA) PVT LTD, BANGALORE
&
SARANATHAN COLLEGE OF ENGINEERING, TRICHY**

This MoU Regarding LabVIEW Academy Program ("MoU") is made by and between Saranathan College Of Engineering, having the campus at Tiruchirappalli, Tamil Nadu represented by its Principal, Dr.A.Revathy, ("Institution") and NI Systems (India) Pvt. Ltd. ("NI"), a company incorporated under the Companies Act, 1956 of India, having its registered office at 81/1 & 82/1, Salarpuria Softzone, Wing B, 5th Floor, Block A, Bellandur, Varthur Hobli, Bangalore 560 037 represented by **Mr. Solaikutty Dhanabal**, Academic Manager, effective as of 22-08-2013 (the "Effective Date").

1. Institution; Courses. Institution warrants and represents that it is a degree-granting educational institution. During the Term (as defined below), Institution agrees to offer and conduct courses for academic purposes at Institution's facilities, in a professional manner, teaching the use of the NI LabVIEW software, which courses must not be for corporate or "customer" training purposes and must (a) be taught by an instructor who is then currently a Certified LabVIEW Associate Developer (the Certified LabVIEW Associate Developer certificate needs to be updated every two years) who regularly teaches degree-fulfilling or continuing education courses to students enrolled in or taking continuing education courses at Institution ("Instructor"); (b) include at least 30 hours of instruction specifically directed to the use of the Lab VIEW software; (c) be provided in accordance with a course syllabus reviewed and approved by NI; and (d) otherwise meet requirements provided or made available by NI to Institution from time to time (the "Courses"). Institution shall ensure no courses offered or provided are taught or introduced at the Institution which directly competes against the Courses. The Labview courses are regularly updated by conducting seminars/workshops/faculty development programme for the students and resource persons with nominal costs.

2. Materials. Institution agrees to set up a NI LabVIEW Academy in field of Virtual Instrumentation, (hereinafter referred to as ACADEMY). NI agrees to provide to Institution the "Instructional Materials" identified on Exhibit A (the "Materials") solely for the purpose of Institution's teaching the Courses at ACADEMY and under the below conditions:

2.1. Subject to, and conditioned on Institution's compliance with, the terms of this MoU, NI hereby grants to Institution, and Institution hereby accepts, a nonexclusive, nontransferable, limited license, for the Term (as defined below) only, to (a) use the Materials for the sole purpose of teaching the Courses, (b) provide the Materials only to those students enrolled (or taking continuing education classes) at Institution and who are taking the Courses ("Students"), except that Institution may not to provide to any Students, or to any persons or entities other than Instructors, any Materials which are designated on Exhibit A as "Instructor Use Only", and (c) make a reasonable number of copies of only

those Materials which are identified on Exhibit A as "Copying Permitted for Course Use", but only as necessary for the purpose set forth in this Subsection 2.1.

2.2. Institution hereby agrees not to itself, and not to encourage or assist Students or others to, (a) copy or reproduce any Materials except as expressly permitted in Subsection 2.1, (b) transfer, disseminate or distribute any Materials to any third-party, except Students to the extent expressly permitted in Subsection 2.1, or (c) use any Materials for any purpose other than the Courses. On any termination or expiration of this MoU, if NI requests, Institution shall, at Institution's sole cost and expense, return to NI all Materials identified on Exhibit A as "Instructor Use Only".

3. Required Software Products Not Included. Institution agrees to obtain from NI, at Institution's sole cost and expense, if necessary Academic Teaching Licenses (as described in the applicable National Instruments Software License MoU, available at http://www.ni.com/pdf/legal/us/software_license_agreement.pdf) to use the LabVIEW software in conducting the Courses; and to obtain from NI, or cause each of the Students to so obtain, at their sole cost and expense, the necessary Student Edition Licenses (as described in the applicable National Instruments Software License MoU) to use the LabVIEW software in the Courses. Institution agrees to comply with, and to cause the Students to comply with, such licenses, including without limitation ensuring that the licensed software is not used for any research, commercial, industrial, or other purpose prohibited by the applicable National Instruments Software License MoU. Except as may be expressly modified by this MoU, the terms and conditions of the applicable National Instruments Software License MoUs govern Institution's, and the Instructors' and Students', uses of the LabVIEW software as related to the LabVIEW Academy Program and the Course.

4. Required Textbooks and Equipment Not Included. Institution further agrees to obtain and provide, at Institution's sole cost and expense, or to cause each of the Students to so obtain, at their sole cost and expense, textbooks acceptable to NI for use in the Course, as well as any hardware and software as required for the Course, and other appropriate National Instruments equipment approved by NI. Such textbooks, hardware, software and National Instruments equipment approved by NI must be obtained separately and are subject to separate charges.

5. Name, Logo, and Trademarks.

5.1. Subject to, and conditioned on Institution's compliance with, the terms of this MoU, NI hereby grants to Institution, and Institution hereby accepts, a nonexclusive, nontransferable, limited license, for the Term (as defined below) only, to display the "LabVIEW Academy" Logo identified on Exhibit B hereto, the "LabVIEW Academy" name, any and all trademarks of NI therein, including without limitation, "LabVIEW", "National Instruments", and the "LabVIEW" logo design, only as part of, and as each appears in, the "LabVIEW Academy" Logo or the "LabVIEW Academy" name as the case may be (such trademarks being referred to as the "Marks"), solely in connection with providing, selling, promoting and advertising the Courses, solely on web site displays, printed literature, and other materials acceptable to NI and which are of an acceptable level of quality determined by NI in NI's sole discretion, and solely in

accordance with Exhibit B hereto and any and all other guidelines and instructions provided or made available by NI to Institution from time to time. In no event may Institution display or use any Mark except as part of, and as it appears in, the "LabVIEW Academy" Logo or the "LabVIEW Academy" name as the case may be.

5.2. With a view to ensuring the maintenance of an acceptable level of quality of the web site displays, printed literature, and other materials, and the Courses, on or in connection with which the "LabVIEW Academy" Logo and/or "LabVIEW Academy" name are displayed, Institution shall submit, at no charge, representative specimens of such materials and Course-related materials to NI for review, as may be requested by NI from time to time, and to permit NI representatives to attend Course sessions at no charge to such extent as may be reasonable for such purpose. Institution agrees to comply with Exhibit B hereto and any and all other requirements, guidelines and instructions provided or made available by NI to Institution from time to time, in each instance of Institution's display of the "LabVIEW Academy" Logo or "LabVIEW Academy" name.

5.3. Goodwill generated by any use by Institution of the "LabVIEW Academy" Logo or the "LabVIEW Academy" name and the Marks, inures solely to the benefit of NI, and no use thereof shall give Institution any right, title or interest in any of such logos, names, or Marks. Upon notice by NI, or in any event on any termination or expiration of this MoU, Institution shall immediately cease all display and use of the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, and the Marks, and all advertising, promotional and sales literature bearing any of such logos, names, or Marks. In the event of a claim of infringement or violation of any intellectual or industrial property right involving the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, or any Mark, Institution agrees to make such modifications to the "LabVIEW Academy" Logo or the "LabVIEW Academy" name, or cease any and all display and use of them, as may be instructed by NI in writing. Institution acknowledges NI's ownership of the Marks and agrees to make no use thereof except as may be expressly permitted by this MoU. At NI's request, Institution agrees to reasonably cooperate with NI, at NI's reasonable expense, in NI's evidencing and protecting NI's rights in the Marks, including without limitation by providing, executing and delivering to NI any reasonably requested documents in furtherance thereof. Institution recognizes and acknowledges the goodwill appurtenant to use and/or ownership of the Marks, the validity of the Marks, NI's rights in the Marks, NI's registrations for the Marks (if any), and the distinctiveness of Marks. Institution agrees to take no action to attack, contest or undercut NI's ownership or the validity of any of the Marks or any applications to register or registrations thereof, or which would tend to destroy or diminish the goodwill in any of the Marks. Without limiting the generality of the foregoing, Institution shall not during the term of this MoU or thereafter:

- (a) apply to register or maintain any application or registration of any of the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, any Mark, or any mark confusingly similar to any Mark, in any jurisdiction, domestic or foreign;
- (b) take any action that may tend to imply or express that Institution is the owner of any Mark or that Licensee has any right, title or interest in ownership or usage in any Mark;
- (c) use or register an internet domain using, containing, or confusingly similar to the "LabVIEW" Academy name, or any Mark;

- (d) misuse any Mark;
- (e) use the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, or any Mark in any manner which may diminish the goodwill appurtenant in any Mark, or disparage NI or NI's business or any of NI's products or services;
- (f) use any colorable imitation or variant form of the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, or any Mark, not specifically approved in writing by NI;
- (g) alter or deface the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, or any Mark in any way except as may be instructed in writing by NI; or
- (h) use, in connection with the manufacture, sale, distribution, or promotion of any products or services (except display of the "LabVIEW Academy" Logo and the "LabVIEW Academy" name in connection with the Courses to the extent expressly permitted in this MoU) the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, or any Mark, or any mark or name confusingly similar to any of them.

5.4. Institution may not take any action against a third party in relation to the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, or any Mark, without NI's prior written consent. NI undertakes no obligation to register or apply to register, or to maintain any registrations of, the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, or any Mark in any jurisdiction. Institution will, immediately upon becoming aware, give full written particulars to NI of (a) any allegation that the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, or any Mark infringes the rights of any third party, or (b) any unauthorized use of the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, or a Mark by a third party. Institution will not make any allegation, admission, settlement, or comment in respect of any such matter without the prior written consent of NI. Unless specifically and expressly waived in accordance with Section 15, NI will have sole right to control the prosecution, defense and any settlement of any claim, dispute or proceedings related to the "LabVIEW Academy" Logo, the "LabVIEW Academy" name, or a Mark, including but not limited to NI's sole discretion regarding whether to implement any action and whether or not to bring or defend, or settle or attempt to settle, any claim, dispute or proceeding.

6. No Other Licenses. Institution acknowledges that all intellectual and industrial property rights, including but not limited to any copyrights and trademarks, which relate to the Materials, belong to and are retained by NI or NI's subsidiaries, as applicable. No rights, licenses or permissions, express, implied or by estoppels, are granted by NI except for the limited licenses expressly set forth in this MoU. All rights not expressly permitted to Institution in this MoU are reserved to NI.

7. Warranty Disclaimer. INSTITUTION ACKNOWLEDGES AND AGREES THAT THE LICENSES, MATERIALS AND INFORMATION PROVIDED BY NI ARE AND WILL BE PROVIDED ON AN "AS IS" BASIS AND WITHOUT WARRANTY OF ANY KIND, AND NO WARRANTIES, EXPRESS OR IMPLIED, ARE MADE WITH RESPECT TO SUCH LICENSES, MATERIALS OR INFORMATION, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, NON-INFRINGEMENT, OR ANY OTHER WARRANTIES THAT MAY OTHERWISE ARISE FROM USAGE OF TRADE OR COURSE OF DEALING; ANY AND

ALL OF WHICH IMPLIED AND STATUTORY WARRANTIES ARE HEREBY DISCLAIMED, TO THE FULL EXTENT PERMITTED BY LAW.

8. Term and Termination.

8.1. Term. This Moue shall commence on the Effective Date and continue for twenty-four (24) months unless terminated earlier. Either party may notify the other party in writing of early termination of this Moue by a prior notice of not less than three months prior to the effect of such termination.

8.2 Termination. Notwithstanding Section 8.1, if, during this MoU, including renewal terms, either party breaches this MoU, the other party may terminate this MoU upon notice to such party if such breach has not been cured to the reasonable satisfaction of the other party within thirty (30) days following written notice of the breach. This Moue shall terminate immediately and automatically if the Institution suspends operations, is or becomes the subject any bankruptcy or similar proceeding, makes an assignment for the benefit of creditors, or is adjudicated bankrupt or insolvent.

8.3 Effect. The following sections and subsections shall survive any termination or expiration of this MoU: 2.2, 5.3, 5.4, 6, 7, 8.3, 9, 10, 11, 12, 13, 14 and 15.

9. INDEMNITY; LIMITED LIABILITY.

9.1 Indemnity By Institution. Institution shall indemnify, defend and hold NI harmless for (a) any damage, expense (including reasonable attorneys' fees), loss, or injury (collectively, "Losses") arising from or in connection with any failure to comply with any of the provisions of Section 5 or any of its subsections; and (b) Losses claimed or sustained by Institution, a Student or other third-party relating to or arising from any Courses or any activities related thereto; however the same may be caused, including without limitation wholly or partially by the fault, negligence or strict liability of NI or others; provided that NI promptly notifies Institution of such claim, and provides Institution with the authority, assistance, and information Institution needs to defend or settle such claim. Institution shall not be liable for a settlement made without its prior written consent.

9.2 Indemnity By NI. NI shall indemnify, defend and hold Institution harmless for any claim by a third party that the Materials, as provided by NI, infringe such third party's United States copyrights; provided that such claim does not arise from use of the Materials other than as expressly permitted in this Moue, from any use or combination of the Materials with other materials not provided by NI, or from modification of the Materials not made by NI; and provided that Institution promptly notifies NI of such claim, and provides NI with the authority, assistance, and information NI needs to defend or settle such claim. NI shall not be liable for a settlement made without its prior written consent. This Subsection 9.2 states Institution's sole remedy for, and NI's entire liability and responsibility for, infringement of any patent, trademark, copyright, or other intellectual or industrial property right relating to

the Materials. THIS LIMITED INDEMNITY IS IN LIEU OF ANY OTHER STATUTORY OR IMPLIED WARRANTY OR REMEDY AGAINST INFRINGEMENT.

9.3 Liability. EXCEPT AS PROVIDED IN SUBSECTION 9.2, IN NO EVENT SHALL NI BE LIABLE FOR ANY DIRECT, ACTUAL, INDIRECT, INCIDENTAL, SPECIAL, PUNITIVE OR CONSEQUENTIAL DAMAGES, OR DAMAGES FOR LOSS OF PROFITS, REVENUE, DATA OR DATA USE, INCURRED BY INSTITUTION, OR ANY STUDENT OR OTHER THIRD PARTY, ARISING FROM THIS MOU, WHETHER IN AN ACTION IN CONTRACT OR TORT, EVEN IF NI HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, AND EVEN IF CAUSED BY THE FAULT, NEGLIGENCE OR STRICT LIABILITY OF NI OR OTHERS. IN NO EVENT SHALL NI'S LIABILITY UNDER THIS MOU EXCEED, IN THE AGGREGATE, THE AMOUNT OF US\$1,000 (ONE THOUSAND U.S. DOLLARS).

10. Independent Contractors; Freedom of Action. Institution and NI are independent contractors to one another and nothing herein shall be deemed to create an agency, partnership, joint venture, franchise or employment relationship between NI and Institution or its personnel, and neither party shall represent to the contrary, either expressly, implicitly, by appearance or otherwise. Institution acknowledges, represents, and agrees that it has not paid, and will not pay, any fee to enter into this MoU. The licenses, rights and permissions granted to Institution under this Moue are nonexclusive. NI may provide identical or similar licenses to others. Further, NI may itself, or with others, (including without limitation other educational institutions), provide, deliver and/or teach courses that are the same as, or similar to, the Courses, or engage in other activities described in this MoU.

11. Assignment. Each party understands and acknowledges that this MoU is personal to the parties and accordingly, except for NI's right to assign this Moue to a related entity, neither party may assign this Moue (in whole or part) without the prior written consent of the other and any attempt to do so shall be void. Institution may not delegate or subcontract any of its obligations under this MoU without NI's prior written consent.

12. Dispute Resolution. This MoU shall be construed under the laws of India. Any dispute or claim arising out of or in connection herewith, or the breach, termination or invalidity thereof, shall be settled by a sole arbitrator, in accordance with the provisions of the Arbitration and Conciliation Act, 1996. The place of arbitration shall be Bangalore and the arbitration proceedings shall take place in the English language. The arbitration award is final and binding upon the parties and the parties undertake to carry out any arbitration award without delay and shall be deemed to have waived their right to any form of recourse insofar as such waiver can validly be made.

13. Notices. All notices which shall be given by either party under the terms of this MoU shall be in writing and be hand delivered, sent by facsimile transmission, overnight delivery, or sent by certified mail, return receipt requested, addressed to the receiving party at the address listed at the first page or to such other persons or addresses as may be designated by a party in writing.

Notice shall be effective on the date it is received or receipt is confirmed or, if mailed as described above, no later than ten (10) days after the date of such mailing.

14. Compliance with Laws. Institution agrees to comply with all applicable laws, including without limitation United States export laws and regulations, in Institution's performance of, and exercise of rights under, this Moue.

15. Registration. If this Moue is required to be registered with authorities in India, Institution shall complete any such required procedures promptly.

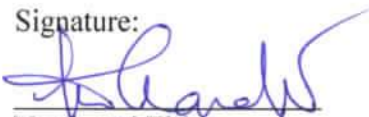
16. Counterparts; Language; Amendment; Construction; Severability; Waiver. This MoU, together with the exhibits attached hereto and referred to herein, embodies the entire understanding between the parties regarding the subject matter hereof and supersedes all prior representations, discussions and communications, whether oral or written. This MoU may be executed in two counterparts, each of which taken together shall constitute one single MoU between the parties. This MoU is solely in the English language. Any translations into any other languages shall be of no effect in interpreting this MoU or otherwise. No amendment, change, alteration, or modification hereof may be made except in a writing signed by both parties. The headings used herein are for convenience only and shall not enter into the interpretation hereof. Each term and condition of this MoU will be construed in such manner to be valid, enforceable and in compliance with applicable law. If any provision of this MoU is deemed or held by a court of competent jurisdiction to be invalid or unenforceable in whole or in part, such construction will neither impair nor affect the validity or enforceability of any other provisions of this MoU. The failure to insist upon strict compliance with any of the provisions of this MoU shall not be deemed a waiver of any such provision, nor shall any waiver or relinquishment of any right or power hereunder, at any one or more times, be deemed a waiver or relinquishment of such right or power at any other time or times. No waiver of any right under this Moue is effective unless made in writing, signed by an authorized representative of the waiving party and dispatched to the benefiting party in accordance with Section 13.

EXECUTED as of the Effective Date set forth above.

NI Systems (India) Pvt. Ltd.

SARANATHAN COLLEGE OF
ENGINEERING

Signature:



Name and Title:

Date:

Signature:



Name and Title:

Date: 22.05.13

PRINCIPAL
Saranathan College of Engineering
TRICHY - 12.

EXHIBIT A

INSTRUCTIONAL MATERIALS:

As determined and provided by NI.

- supplemental LabVIEW questions—Copying Permitted for Course Use
- Instructor version of the Student Workbook (PDF)—Instructor Use Only
- Student workbook version (PDF)—Copying Permitted for Course Use]]

OBJECTIVES:

Institution agrees to set up the ACADEMY, which is expected to meet the following goals:

- 1) To pursue training activities related to user education and training in areas mutually agreed to by INSTITUTION and NI. Initially the ACADEMY will begin activities in the area of user training in LabVIEW.
- 2) To strengthen the collaboration between INSTITUTION and NI, which may encourage undertaking of teaching projects and INSTITUTION to pursue its objectives of advancement and creation of knowledge through use of the facilities developed under the ACADEMY.
- 3) To organize courses/workshops/seminars every year on various aspects of Algorithm Engineering and Graphical System Design.

COMMITMENTS OF NI:

- 1) NI may provide free of cost technical consultancy (no more than a reasonable period of time solely determined by NI) for establishment of ACADEMY at INSTITUTION.
- 2) NI agrees to provide free training (no more than 5 days) to 5 faculty of the ACADEMY on LabVIEW Fundamentals and further to waive off the first CLAD exam attempt fees of such 5 faculty.
- 3) NI agrees to provide start-up assistance (no more than a reasonable period of time solely determined by NI) at INSTITUTION during installation of NI products at the ACADEMY either directly or through its channel partners.
- 4) Once the ACADEMY qualifies for the criteria required for a LabVIEW Academy, NI agrees to provide 50% discount in CLAD (Certified LabVIEW Associate Developer) exam fee for the students & faculties of ACADEMY who got trained under ACADEMY.
- 5) NI agrees to provide free technical support over phone and e-mail on NI products and their usage for various measurements and control.
- 6) NI may support INSTITUTION in conducting training programs for industry representatives approved by NI.

COMMITMENTS OF INSTITUTION:

- 1) INSTITUTION agrees to use this ACADEMY as common facility for the entire campus and there will be Courses conducted for various engineering disciplines.
- 2) INSTITUTION agrees to appoint dedicated CLAD Certified instructor to conduct the Course in the ACADEMY

3) INSTITUTION agrees to provide computers and all other necessary infrastructure for the ACADEMY and all will be networked with structured cabling and Ethernet Switch.

4) INSTITUTION also agrees to ensure the development of teaching demonstrations, application notes and project work through students and faculty of INSTITUTION using the facilities provided by ACADEMY.

JOINT EFFORTS:

1) An official of INSTITUTION to be nominated and appointed by mutual consent of INSTITUTION and NI will coordinate the activities of the ACADEMY.

2) Both INSTITUTION and NI shall permit their respective experts to contribute in the teaching/training programs conducted by either organization through mutual consent.

EXHIBIT B

1. LabVIEW Academy Logo:

The “LabVIEW Academy” logo is set out below for identification (the “SAMPLE” watermark is not part of the logo—the artwork for the logo will be made available after execution of this MoU by Institution and NI):



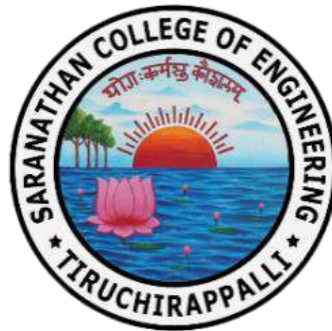
2. Requirements:

In addition to the other requirements of this MoU with respect to the use of the “LabVIEW Academy” Logo, the “LabVIEW Academy” name, and the Marks, Institution agrees to comply with the guidelines at <http://www.ni.com/legal/trademarks/> and any and all other guidelines that may be provided or made available by NI to Institution from time to time, and to include, in prominent type and font as specified by NI, the following legend in all materials on or in

connection with which the “LabVIEW Academy” Logo or the “LabVIEW Academy” name are used:

“LabVIEW”, “National Instruments”, and the “LabVIEW” logo design are trademarks of National Instruments Corporation, and are used, as part of the “LabVIEW Academy” logo and the “LabVIEW Academy” name, with the permission of National Instruments Corporation. [name of Institution], not National Instruments Corporation, is solely responsible for the courses offered by [name of Institution], including without limitation those teaching the use of the LabVIEWTM software, and all materials, content, software, and code contained in or made available through this document or web site. Neither [name of Institution], nor any courses or other goods or services offered by [name of Institution], are affiliated with, endorsed by, or sponsored by National Instruments Corporation.

Saranathan College of Engineering
Tiruchirappalli - 620 012

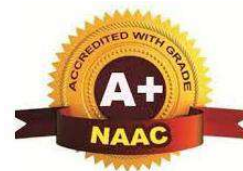


Mechanical Engineering
&
Electrical and Electronics Engineering

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai-25)

Venkateswara Nagar, Panjappur, Tiruchirappalli - 620 012, Tamil Nadu.



**Department of Mechanical Engineering
&
Department of Electrical and Electronics Engineering**

S. No.	MoU	Year of signing MoU	Duration
1.	Siemens Centre of Excellence in Manufacturing National Institute of Technology, Tiruchirappalli - 620 015, Tamil Nadu, India.	2019-2020	3 Years

**Siemens Centre of Excellence in
Manufacturing
National Institute of Technology
Tiruchirappalli - 620 015
Tamil Nadu, India**



தமிழ்நாடு தமிலநாடு TAMIL NADU

6 SEP 2019

71AB 212966
S. ராக்முமார்
மு.தா. வி
LNo: 6/2000
மசா, தமிழ்நாடு

**Memorandum of Understanding for
Skill Development and Training**

BETWEEN

**Siemens Centre of Excellence in Manufacturing
National Institute of Technology**

TIRUCHIRAPPALLI

AND

Saranathan College of Engineering

TIRUCHIRAPPALLI


Siemens CoE, NITT

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Saranathan College of Engineering



The Agreement is executed on this 07th September, 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 'NIT Trichy', which expression shall include its successors and assigns) of the first part;

And


Saranathan College of Engineering, Tiruchirappalli hereinafter called the "SCE" (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.
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.


Siemens CoE, NITT

Page 2 of 5


Saranathan College of Engineering



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 Institute

Saranathan College of Engineering was founded by "Vidya Seva Ratnam", "Guru Seva Mani" Auditor Sri. K. Santhanam in the year 1998. It was so named in respectful memory of his Guru Principal Saranathan, the greatest ever Principal of National College, Tiruchirappalli. It is a self-financing college approved by AICTE and affiliated to Anna University, Chennai. The college is located in sprawling 40-acre campus on the Chennai – Madurai Expressway at Panjappur, Tiruchirappalli - 12. The college has a current annual intake of 660 students for the 7 branches offered at the undergraduate level and 114 students for the 4 courses offered at the post-graduate level. CSE, EEE, ECE and Mechanical departments are permanently affiliated to Anna University, Chennai. All the eligible 6 UG branches are accredited by NBA, New Delhi.

The Siemens CoE, National Institute of Technology, Tiruchirappalli, India enters into the following Agreement to offer Skill Development, Training and other related services to Saranathan College of Engineering.

1. Siemens CoE offers various skill development courses across different disciplines Saranathan College of Engineering committed/commits to send 100 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 Saranathan College of Engineering 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.


Siemens CoE, NITT

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Saranathan College of Engineering



5. The faculty of Saranathan College of Engineering 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 Saranathan College of Engineering will get 25% discount on the Registration fee.
7. Saranathan College of Engineering 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. Saranathan College of Engineering 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. Saranathan College of Engineering should instruct their students clearly on the precautionary measures.
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.


Siemens CoE, NITT

Page 4 of 5



Saranathan College of Engineering

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.

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
Dr.-Ing. M. DURAISELVAM, B.E., M.E., M.B.A., Ph.D.
Centre Head
Siemens Centre of Excellence in Manufacturing
National Institute of Technology
TIRUCHIRAPPALLI-620 015

In presence of


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

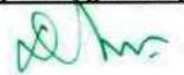
DEAN
Research & Consultancy
National Institute of Technology
Tiruchirappalli - 620 015
2. Lab Coordinator
Siemens CoE, NITT


Siemens CoE, NITT



Page 5 of 5


For and on behalf of Saranathan College of Engineering


Name: Dr.D.Valavan
Designation: Principal

PRINCIPAL
Saranathan College of Engineering
TRICHY - 12.

Saranathan College of Engineering

In presence of


1. Dr.C.Krishnakumar
HOD/EEE, SCE


2. Dr.G.Jayaprakash
HOD/Mech, SCE


Saranathan College of Engineering

